Table of Contents

[**Banna, Jinan**](#First_heading)2

[**Esquivel, Monica**](#Esquivel)25

[**Hackney, Lara**](#Hackney)31

[**He, Yanghua**](#He)35

[**Ho, Kacie**](#Ho)50

[**Jha, Rajesh**](#Jha)54

[**Jun, Soojin**](#Jun)81

[**Kim, Yong Soo**](#Kim)102

[**Lee, Mi-Jeong**](#Lee)115

[**Li, Yong**](#Li)133

[**Mishra, Birendra**](#Mishra)140

[**Nakamoto, Stuart**](#Nakamoto)174

[**Novotny, Rachel**](#Novotny)213

[**Odani, Jenee**](#Odani)296

[**Oshiro, Melelani**](#Oshiro)325

[**Revilla, Marie KF**](#Revilla)330

[**Seale, Andre**](#Seale)366

[**Thorne, Mark**](#Thorne)383

[**Yang, Jinzeng**](#Yang)399

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**EDUCATION**

2009 **PhD, University of California, Davis**

Major: Nutritional Biology

Minors: Epidemiology and Statistics, International and Community Nutrition

Dissertation: “Food Behaviors and Physical Activity in Spanish-speaking Women in California” Advisor: Dr. Marilyn Townsend

2005 **BA, University of California, Santa Barbara** (*magna cum laude*)

Major: Psychology

Minor: Health/Exercise Science

**LICENSE**

2010-present Registered Dietitian, License No. 1011678

**AREAS OF EXPERTISE**

Nutrition education, community nutrition, nutritional epidemiology, dietetics, program evaluation

**PROFESSIONAL POSITIONS**

2017-present **Associate Professor**, Department of Human Nutrition, Food and Animal Sciences, University of Hawaii at Manoa, Honolulu, Hawaii. 70% teaching,

30% research in human nutrition.

2012-2017 **Assistant Professor**, Department of Human Nutrition, Food and Animal Sciences, University of Hawaii at Manoa, Honolulu, Hawaii. 70% teaching,

30% research in human nutrition.

2012 **Nutrition Coordinator (Outpatient Dietitian)**, Bronx Lebanon Hospital, Bronx, New York.

2010-2012 **Adjunct Professor**, South University (Online Program), Savannah, Georgia.

2011 **Research Scientist**, Instituto de Investigación Nutricional, Lima, Peru.

2009-2010 **Dietetic Intern**, Department of Food and Nutrition, New York Presbyterian Hospital, New York, New York.

2008 **Adjunct Professor**, Los Rios Community College District, Sacramento, California.

2008 **Instructor**, Department of Nutrition, University of California, Davis, Davis, California.

2008 **Project Assistant**, California Center for Physical Activity, California Department of Public Health, Sacramento, California.

2008 **Intern**, Kids in the Garden Program, Ecological Garden at the Student Farm, University of California, Davis, Davis, California.

2007-2008 **Community Health Representative**, Western Human Nutrition Research Center, Metabolic Kitchen, University of California, Davis, Davis, California.

2004-2008 **Graduate Student Researcher**, Deparment of Nutrition, University of California, Davis, Davis, California.

2005-2008 **Teaching Assistant**, Deparment of Nutrition & Department of Psychological and Brain Sciences, University of California, Davis, Davis, California.

2007 **Instructor**, Department of Nutrition, University of California, Davis, Davis, California.

2006-2007 **Local Study Coordinator**, Children’s Hospital, Los Angeles, Los Angeles, California.

2003-2004 **Research Assistant**, Psychophysiology Lab, University of California, Santa Barbara, Santa Barbara, California.

2003-2004 **Co-coordinator**, Healthy Eating and Living Intern Group, University of California, Santa Barbara, Santa Barbara, California.

**RESEARCH PUBLISHED IN THE FOLLOWING PEER-REVIEWED JOURNALS**

*Journal of the Academy of Nutrition and Dietetics*

*Journal of Nutrition Education and Behavior*

*Public Health Nutrition*

*Frontiers in Nutrition*

*Nutrients*

*BioMed Central Public Health*

*BioMed Central Obesity*

*BioMed Central Nutrition*

*BioMed Central Pregnancy and Childbirth*

*Maternal and Child Health Journal*

*American Journal of Lifestyle Medicine*

*Nutrition Research and Practice*

*Contemporary Clinical Trials*

*Hawai’i Journal of Medicine and Public Health*

*MERLOT Journal of Online Learning and Teaching*

*International Journal of Applied Psychology*

*Journal of Community Engagement and Scholarship*

*American Journal of Health Promotion*

*Journal of the American College of Nutrition*

*International Journal for Equity in Health*

*Journal of Immigrant and Minority Health*

*Journal of Extension*

*North American Colleges and Teachers of Agriculture Journal*

*International Journal of Environmental Research and Public Health*

**REVIEW MANUSCRIPTS FOR THESE PEER-REVIEWED JOURNALS**

*Appetite*

*Public Health Nutrition*

*Journal of the Academy of Nutrition and Dietetics*

*Journal of Nutrition Education and Behavior*

*BioMed Central Public Health*

*BioMed Central Pediatrics*

*Health Psychology*

*Health Education Journal*

*Health Education Research*

*PLOS ONE*

*Journal of Physical Activity & Health*

*American Journal of Public Health*

*Journal of Food Science*

*Hawai’i Journal of Medicine and Public Health*

*International Journal of Environmental Research and Public Health*

*International Journal of Qualitative Studies in Health & Well-being*

*Progress in Community Health Partnerships: Research, Education, and Action*

**PUBLICATIONS**

**PEER-REVIEWED JOURNAL ARTICLES** (\*STUDENT PARTICIPATION)

1. GarnerJA, ProañoGV, Kelley K, FisherR, **BannaJC**, Emenaker NJ, Sauer K. Revising the Academy’s research priorities: methods of the Research Priorities and Strategies Development Taskforce, 2017-2019. *Journal of the Academy of Nutrition and Dietetics.* [In press]
2. \*Webster A, **Banna JC**, Lim E, \*Gibby CK, \*Rose A, Hopkins LC, Kennel JA, Orchard T, Bomser JA, Gunther C. Knowledge, attitudes, and practices regarding dietary sodium in college students: a pilot test. *Journal of Nutrition Education and Behavior.* [In press]
3. Fialkowski MK, \*Calabrese A, \*Dirige B, **Banna JC**, \*Yiu E, \*Gibson J, Stewart M, Lin G, Novotny R. Student perception of a placed-based online introductory nutrition course for the Pacific. *North American Colleges and Teachers of Agriculture Journal*. [In press]
4. \*Holmes H, Palacios C, Wu Y, **Banna JC.** Effect of a short message service intervention on excessive gestational weight gain in a low-income population: a randomized controlled trial. *Nutrients.* 2020;12(5):1428.
5. Buchthal OV, Nelson-Hurwitz D,Hsu LJ, Byers M, **Banna JC**.Identifyingurban immigrant food-cultivation practices for culturally-tailored garden-based nutrition programs. *Journal of Immigrant and Minority Health*. 2020;22(4):778-785.
6. Reicks M, **Banna J**, Anderson A, Da Silva V, Gunther C, Hongu N, Jones C, Lora K, Richards R, Topham G, Wong SS. Development of parent and adolescent questionnaires to assess food parenting practices that address adolescent consumption during independent eating occasions. *Journal of Nutrition Education and Behavior.* 2020;52(3):307-313.
7. Fialkowski MK, \*Calabrese A, Tillinghast B, Titchenal A, Meinke W, **Banna JC,** Draper J. Open educational resource textbook impact on students in an introductory nutrition course. *Journal of Nutrition Education and Behavior*. 2020;52(4):359-368.
8. **Banna JC**, Richards R, Jones B, Anderson A, Reicks M, Cluskey M, Gunther C, Hongu N, Lora K, Misner S, Monroe-Lord L, Topham G, Wong SS, Lim E. Describing independent eating occasions among low-income adolescents. *International Journal of Environmental Research and Public Health*. 2020;17(3):E981.
9. \*Gibby C, Palacios C, Campos M, \*Graulau R, **Banna JC**. Acceptability of a text message-based intervention for obesity prevention in infants from Hawaii and Puerto Rico WIC. *BMC Pregnancy and Childbirth*. 2019;19(1):291.
10. Gunther C, Reicks M, **Banna J**, \*Suzuki A, Topham G, Richards R, Lora K, Anderson A, da Silva V, Penicka C, Hopkins LC, Cluskey M, Hongu N, Jones C, Monroe-Lord L, Wong SS. Food parenting practices that influence early adolescents' food choices during independent eating occasions. *Journal of Nutrition Education and Behavior*. 2019;51(8):993-1002.
11. \*Zhao C, \*Panizza C, \*Fox K, Boushey C, Shanks C, Ahmed S, Chen S, [Serrano](https://plus.google.com/u/0/105368062203464006354?prsrc=4) E, Zee J, Fialkowski M, **Banna JC**. Plate waste in school lunch: barriers, motivators and perspectives of SNAP-eligible early adolescents in the US. *Journal of Nutrition Education and Behavior*. 2019;51(8):967-975.
12. \*Graulau R, **Banna JC**, Campos M, \*Gibby C, Palacios C. Amount, preparation and type of formula consumed and its association with weight gain in infants participating in the WIC Program in Hawaii and Puerto Rico. *Nutrients.* 2019;11(3):695.
13. Reicks M, Davey C, Anderson A, **Banna JC**, Cluskey M, Gunther C, Jones B, Richards R, Topham G, Wong SS. Frequency of eating alone among adolescents is associated with adolescent dietary intake, perceived food-related parenting practices and weight status: cross-sectional Family Life, Activity, Sun, Health, and Eating (FLASHE) Study results. *Public Health Nutrition*. 2019;22(9):1555-1566.
14. \*Amore L, Buchthal OV, **Banna JC**. Identifying perceived barriers and enablers of healthy eating in college students in Hawai’i: a qualitative study using focus groups. *BMC Nutrition*. 2019;5:16.
15. \*Gibby C, Palacios C, Campos M, Lim E, **Banna J**. Breastfeeding discontinuation not associated with maternal pregravid BMI but associated with Native Hawaiian or Other Pacific Islander race in Hawaii and Puerto Rico WIC participants.*Maternal and Child Health Journal.* 2019;23:19.
16. **Banna JC**, O’Driscoll J, Boushey CJ, Auld G, Olson B, Cluskey M, Edlefsen Ballejos M, Bruhn C, Misner S, Reicks M, Wong SS, Zaghloul S. Parent and household influences on calcium intake among early adolescents. *BMC Public Health*. 2018;18(1):1390.
17. \*Gibby C, Palacios C, Lim E, **Banna JC**. Associations between gestational weight gain and rate of infancy weight gain in Hawaii and Puerto Rico WIC participants. *BMC Obesity*. 2018;5:41.
18. **Banna JC**, Bersamin A. Community involvement in design, implementation, and evaluation of interventions to reduce chronic diseases in indigenous populations in the US: a systematic review. *International Journal for Equity in Health*. 2018; 17(1):116.
19. Palacios C, Campos M, \*Gibby C, Melendez M, Lee J, **Banna J**. Effect of a multi-site trial using short message service (SMS) on infant feeding practices and weight gain in low-income minorities. *Journal of the American College of Nutrition*. 2018;37(7):605-613.

# Banna JC, \*Panizza CE, Boushey CJ, Delp EJ, Lim E. Association between cognitive restraint, uncontrolled eating, emotional eating and BMI and the amount of food wasted in early adolescent girls. *Nutrients*. 2018;10(9):1279.

1. \*Mosley MA, **Banna JC**, Lim E, Fialkowski MK, Novotny R. Dietary patterns change over two years in female adolescents in Hawai'i. *Asia Pacific Journal of Clinical Nutrition.* 2018; 27(1):238-245.
2. Butel J, **Banna JC**, Novotny R, Franck K, Parker S, and Stephenson L. Validation of a collaboration readiness assessment tool for use by Supplemental Nutrition Assistance Program Education (SNAP-Ed) agencies and partners. *Journal of Nutrition Education and Behavior*. 2017;PubMed PMID: 29246568.
3. **Banna JC**, Campos M, \*Gibby C, \*Graulau R, Melendez M, Reyes A, Lee JE, Palacios C. Multi-site trial using short mobile messages (SMS) to improve infant weight in low-income minorities: Development, implementation, lessons learned and future applications. *Contemporary Clinical Trials*. 2017;62:56-60.
4. Byker CJ, **Banna JC**, Serrano EL. Food waste in the National School Lunch Program: 1978-2015. *Journal of the Academy of Nutrition and Dietetics*. 2017;117(11):1792-1807.
5. **Banna JC**, McCrory M, Fialkowski MK, Boushey CJ. Examining plausibility of self-report energy intake data: considerations for method selection. *Frontiers in Nutrition*. 2017;4:45.
6. \*Suzuki A, Choi SY, Lim E, Tauyan S, **Banna JC**. Evaluation of factorial validity and reliability of a food behavior checklist for low-income Filipinos. *Journal of Nutrition Education and Behavior*. 2017;49:593-598.
7. \*Panizza C, Boushey CJ, Delp E, Kerr D, Lim E,Gandhi K, **Banna JC**.Characterizing early adolescent food waste using the mobile food record. *Nutrients.* 2017;9(2): 93.
8. **Banna JC,** Richards R, Brown LB. College students' perceived differences between the terms real meal, meal, and snack. *Journal of Nutrition Education and Behavior*. 2017;49:228-235.
9. \*Martinez Y, **Banna JC**, Bellajos M, Bruhn C, Cluskey M, Gunther C, Hongu N, Johnston P, Misner S, Reicks M, Richards R, Wong SS. Evaluation of messages to promote intake of calcium-rich foods in early adolescents. *Journal of Community Engagement and Scholarship*. 2016;9(2):110-120.
10. **Banna JC**, Gilliland B, Keefe M, Zheng D. Cross-cultural comparison of perspectives on healthy eating among Chinese and American young adults. *BMC Public Health.* 2016;16:1015.
11. \*Mosley MA, Delormier T, **Banna JC.** Food-related beliefs of adolescent girls ages 9-13 and their caregivers on Oʻahu, Hawaiʻi. *Hawai'i Journal of Medicine & Public Health*. 2016; 75(4):101-108.
12. **Banna JC**, Reicks M, Gunther C, Richards R, Bruhn C, Cluskey M, Hongu N, Johnston NP, Misner S, Wong SS. Evaluation of emotion-based messages designed to motivate Hispanic and Asian parents of early adolescents to engage in calcium-rich food and beverage parenting practices. *Nutrition Research and Practice.* 2016;10(4):1-8.
13. **Banna JC**, Buchthal OV, Delormier T, Creed-Kanashiro HM, Penny ME. Influences on eating: a qualitative study of adolescents in a periurban area in Lima, Peru. *BMC Public Health*. 2016;16(1):40.
14. **Banna JC**, Buchthal OV, Tauyan S. Assessing face validity of a food behavior checklist for limited-resource Filipinos. *Hawai'i Journal of Medicine & Public Health*. 2015;74(10): 334-340.
15. Reicks M, **Banna JC**, Cluskey M, Gunther C, Hongu N, Richards R, Topham G, Wong SS. Influence of parenting practices on eating behaviors of early adolescents during independent eating occasions: implications for obesity prevention. *Nutrients*. 2015;7(10): 8783-8801.
16. **Banna JC**, Lin MF, Stewart MS, Fialkowski MK. Interaction matters: Strategies to promote engaged learning in an online introductory nutrition course. *MERLOT Journal of Online Learning and Teaching*. 2015;11(2):249-261.
17. \*Galloway J, Nigg C, Liu M, **Banna JC**. Predictors of change in physical activity and fruit and vegetable intake in a multiethnic population in Hawaii at 6 and 12 months follow-up. *International Journal of Applied Psychology*. 2015;5(2):45-53.
18. **Banna JC**, Fialkowski MK, Townsend MS. Misreporting of dietary intake affects estimated nutrient intakes in low-income Spanish-speaking women. *Journal of the Academy of Nutrition and Dietetics.* 2015;115(7):1124-1133.
19. **Banna JC**, Kaiser LL, Drake C, Townsend MS.Acculturation, physical activity and television viewing in Hispanic women: Findings from the 2005 California Women’s Health Survey. *Public Health Nutrition*. 2012;15(2):198-207.
20. **Banna JC**, Townsend MS. Assessing factorial and convergent validity and reliability of a food behaviour checklist for Spanish-speaking participants in U.S. Department of Agriculture nutrition education programmes. *Public Health Nutrition.* 2011;14(7):1165-1176.
21. **Banna JC**, Keim NL, Townsend MS. Assessing face validity of a physical activity questionnaire for Spanish-speaking women in California. *Journal of Extension*. 2011;vol 49 (5):5FEA6.  Available at <http://www.joe.org/joe/2011october/a6.php>
22. **Banna JC**, Vera Becerra LE, Kaiser LL, Townsend MS.  Using qualitative methods to improve questionnaires for Spanish speakers: Assessing face validity of a food behavior checklist. *Journal of the American Dietetic Association*. 2010;110:80-90.

**OTHER JOURNAL ARTICLES** (\*STUDENT PARTICIPATION)

1. \*Suzuki A, **Banna JC**. Improving diet quality for chronic disease prevention with okara “food waste.” *American Journal of Lifestyle Medicine*. [In press]
2. \*Araujo Almeida V, Seto T, **Banna JC**. Considerations for measurement of sodium intake. *American Journal of Lifestyle Medicine*. [In press]
3. \*Bennett J, \*Deslippe A, \*Crosby C, Belles S, **Banna J**. Electrolytes and cardiovascular disease risk. *American Journal of Lifestyle Medicine*. [In press]
4. \*Holmes H, \*Araujo Almeida V, Boushey C, **Banna JC**. Use of technology for dietary assessment in immigrant populations. *American Journal of Lifestyle Medicine*. 2019;14(2):118-121.
5. McGlone K, **Banna JC**. A unique, innovative, easy-to-use program to improve young children’s attitudes about and consumption of fruits and vegetables. *American Journal of Lifestyle Medicine*. 2019;14(1):24-27.
6. \*Keaulana S, Antonio M, \*Schoch H, **Banna JC**. A literature review of the role of mindfulness practices in nutrition for mothers and their children. *American Journal of Lifestyle Medicine*. 2019;13(6):533-536.
7. **Banna JC**. Obesity prevention in children in Latin America through interventions using technology. *American Journal of Lifestyle Medicine*. 2019;13(2):138–141.
8. **Banna JC**. Considerations for evaluation of fruit and vegetable intake in low-literate Spanish-speaking participants in USDA food and nutrition education programs. *American Journal of Lifestyle Medicine*. 2019;13(3):235–238.
9. **Banna JC**. Awareness of cancer risk: variation in measurement approaches. *American Journal of Lifestyle Medicine*. 2018;12(3):211-214.
10. **Banna JC**. Considerations for evaluation of diabetes prevention programs in Hispanic adults in the US. *American Journal of Lifestyle Medicine*. 2018;12(1):21-24.

**JOURNAL ARTICLES UNDER REVIEW** (\*STUDENT PARTICIPATION)

1. Palacios C, \*Huwaiken M, **Banna JC**. Effect of a text intervention during pregnancy on birth weight in participants of the WIC program in Hawaii.[Under review]

**JOURNAL ARTICLES IN PREPARATION** (\*STUDENT PARTICIPATION)

1. \*Asinobi M, Palacios C, Wu Y, **Banna JC**. Socio-demographic correlates of pre-pregnancy body mass index and gestational weight gain among low-income women in Hawaiʻi WIC. [In preparation]
2. \*Odegard B, \*Ferguson MR, Naja F, Ayoub J, **Banna JC**. A qualitative investigation of the perceptions of complementary and alternative medicine among adults in Hawaiʻi. [In preparation]
3. Sparks KS, Fialkowski MK, Gradinetti A, Nigg C, Li F, Wilkens L, **Banna JC**, Bersamin A, Paulino Y, Hattori-Uchima M, \*Aflague T, Coleman P, Deenik J, Fleming T, Novotny R. Acculturation and health status in the Children’s Healthy Living Program (CHL) for Remote Underserved Minority Populations in the Pacific Region. [In preparation]
4. \*Suzuki A, \*Ariga Y, Lim E, **Banna JC.** Food involvement and variety seeking tendency in a diverse adult population. [In preparation]

**PEER-REVIEWED CONFERENCE PROCEEDING PAPERS**

1. **Banna JC**, Lin MF, Stewart MS, Fialkowski MK. Fostering Interaction in an Online Introductory Nutrition Course. Proceedings of the Education and E-learning Conference, Bangkok, Thailand. 2014.

**ABSTRACTS PRESENTED** (\*STUDENT PARTICIPATION)

1. **Banna JC,** Wu Y, Palacios C. Socio-demographic correlates of pre-pregnancy body mass index and gestational weight gain among low-income women in Hawai’i WIC [poster presentation]. Nutrition 2020, online.
2. \*Holmes H, Palacios C,Wu Y, **Banna JC**. Effect of short message service on gestational weight gain in a low-income population [poster presentation]. Nutrition 2020, online.
3. \*Gibby C,Palacios, Campos M,\*Graulau RE, **Banna JC.** Acceptability of a text message-based intervention for obesity prevention in infants from Hawai‘i and Puerto Rico WIC [oral presentation]. Annual Meeting of the Japan Society for Developmental Origins of Health and Disease, Tokyo, Japan, 2019.
4. \*Suzuki A, \*Ariga Y, Lim E, Ghorbani R**, Banna JC.** Food involvement and variety seeking tendency in a diverse adult population [poster presentation]. International Society for Behavioral Nutrition and Physical Activity Annual Meeting, Prague, Czech Republic, 2019.
5. \*Valdez D, Palacios C, **Banna JC**. Determining acceptability of a text-message based intervention to prevent excessive gestational weight gain in low-income women in Hawaii WIC [poster presentation]. Nutrition 2019, Baltimore, Maryland, 2019.
6. Palacios C, Campos M, **Banna JC**. Resultados de una intervención usando mensajes de textos en las prácticas de alimentación infantil y ganancia de peso en Puerto Rico y Hawái [oral presentation]. Latin American Conference of Nutrition (SLAN), Guadalajara, Mexico, 2018.
7. Campos M, **Banna JC**, \*Gibby C, \*Graulau RE, Palacios C. Acceptability of a text message-based intervention to prevent obesity in WIC infants [poster presentation]. [Addressing Health Disparities: The Role of Translational Research](http://metrcconference.com/agenda.html), Meharry Translational Research Center (MeTRC), Nashville, Tennessee, 2018.
8. Anderson A, Richards R, Topham G, **Banna J**, Cluskey M, Gunther C, Hongu N, Jones C, Lora K, Misner S, Monroe-Lord L, Penicks C, Reicks M, Wong SS. Challenges in Collecting Pictorial Data, Characterizing Quality and Identifying Foods in Dietary Assessment of Early Adolescents. Workshop on Innovative Technologies for Dietary Intakes Measurements. South Kensington, London, United Kingdom, 2018.
9. \*Suzuki A, Anderson A, Choi SY, Cluskey M, Gunther C, Hongu N, Jones B, Lora K, Misner S, Monroe-Lord L, Penicka C, Reicks M, Richards R, Topham G, Wong SS, **Banna JC**. Characterizing eating behavior during independent eating occasions among early adolescents in Hawaii [poster presentation]. Nutrition 2018, Boston, Massachusetts, 2018.
10. **Banna JC**, Richards R, Jones B, Anderson A, Cluskey M, Gunther C, Hongu N, Lora K, Misner S, Monroe-Lord L, Reicks M, Topham G, Wong SS, Lim E. Describing independent eating occasions among low-income adolescents ages 10-13 in the United States: a multi-state study [poster presentation]. Nutrition 2018, Boston, Massachusetts, 2018.
11. \*Zhao C, \*Panizza C, Chen S, \*Fox K, Boushey C, Shanks C, [Serrano](https://plus.google.com/u/0/105368062203464006354?prsrc=4) E, Zee J, Fialkowski M, **Banna JC**. Understanding barriers, motivators and perspectives on reduction of school lunch plate waste of early adolescents in the US [poster presentation]. Nutrition 2018, Boston, Massachusetts, 2018.
12. **Banna JC**, Gaspar-Oishi M, \*Valdez D, Palacios C. Development of short mobile messages for an intervention to prevent excessive gestational weight gain in low-income women in Hawai'i WIC [poster presentation]. Nutrition 2018, Boston, Massachusetts, 2018.
13. Reicks M, Davey C, Anderson A, **Banna JC**, Cluskey M, Gunther C, Jones B, Richards R, Topham G, Wong SS. Frequency of eating alone among adolescents, perceptions of parenting practices, and dietary intake: results from the FLASHE study [poster presentation]. Society for Nutrition Education and Behavior Annual Conference, Minneapolis, MN, 2018.
14. Byker Shanks C, **Banna J**, [Serrano](https://plus.google.com/u/0/105368062203464006354?prsrc=4) E, Chen S. Assessment of dietary quality through measurement of food waste among students at schools [oral presentation]. International Society for Behavioral Nutrition and Physical Activity Annual Meeting, Hong Kong, 2018.
15. \*Zhao C, \*Panizza C, Chen S, \*Fox K, Boushey C, Shanks C, [Serrano](https://plus.google.com/u/0/105368062203464006354?prsrc=4) E, Zee J, Fialkowski M, **Banna JC**. Reduction of school lunch plate waste of early adolescents in the us: identifying barriers, motivators and perspectives [poster presentation]. University of Hawai‘i College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawai‘I, 2018.
16. \*Gibby, C, Palacios, C, Lim, E, **Banna JC**. Association between maternal pregravid body mass index and breastfeeding discontinuation in Hawai‘i and Puerto Rico WIC participants [poster presentation]. University of Hawai‘i College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawai‘i, 2018.
17. \*Suzuki A, Anderson A, Choi SY, Cluskey M, Gunther C, Hongu N, Jones B, Lora K, Misner S, Monroe-Lord L, \*Penicka C, Reicks M, Richards R, Topham G, Wong SS, **Banna JC.** Characterizing eating behaviors of adolescents ages 10-13 in Hawaii while eating alone [oral presentation]. University of Hawai‘i College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawai‘i, 2018.
18. \*Valdez D, Palacios C, Gaspar-Oishi M, **Banna JC**. Preventing Excessive Gestational Weight Gain in Low-Income Women in Hawai‘i WIC: Development of short mobile messages for a nutrition education program [poster presentation]. UH Mānoa School of Nursing & Dental Hygiene Health Sciences Interdisciplinary Poster Festival. Honolulu, Hawai‘i, 2018.
19. \*Suzuki A, Anderson A, Cluskey M, Ganganna P, Gunther C, Hongu N, Jones B, Litchfield R, Lora K, Misner S, Monroe-Lord L, \*Penicka C, Reicks M, Richards R, Topham G, Wong SS, **Banna JC**. Characterizing eating behavior during independent eating occasions among early adolescents in Hawaii [oral presentation]. East-West Center International Graduate Student Conference. Honolulu, Hawai‘i, 2018.
20. \*Suzuki A, Choi SY, Lim E, Tauyan S, **Banna JC**. Evaluation of the factor structure of a food behavior checklist for low-income Filipinos [poster presentation]. International Society for Behavioral Nutrition and Physical Activity Annual Meeting, Victoria, BC, Canada, 2017.
21. \*Amore L, Buchthal OV, **Banna JC**. Let’s talk food: identifying perceived barriers and enablers of healthy eating in college students in Hawai’i: a qualitative study using focus groups [poster presentation]. Undergraduate Showcase of Research and Creative Projects, Honolulu, Hawai‘i, 2017.
22. \*Panizza C, \*Fox K, Boushey C, Shanks C, [Serrano](https://plus.google.com/u/0/105368062203464006354?prsrc=4) E, Zee J, Fialkowski M, **Banna JC**. Barriers, motivators and perspectives on minimizing lunchtime food waste of early adolescents in the National School Lunch Program [oral presentation]. Experimental Biology, Chicago, Illinois, 2017.
23. \*Suzuki A, Choi SY, Lim E, Tauyan S, **Banna JC**. Evaluation of internal consistency and test-retest reliability of a food behavior checklist for low-income Filipinos [poster presentation]. Experimental Biology, Chicago, Illinois, 2017.
24. Palacios C, Campos M, \*Gibby C, **Banna JC**. Multi-site trial using short mobile messages (SMS) to improve infant feeding practices among participants in the WIC program [poster presentation]. Experimental Biology, Chicago, Illinois, 2017.
25. \*Amore L, **Banna JC**. Let’s talk food: identifying perceived barriers and enablers of healthy eating in college students in Hawai’i [poster presentation]. Experimental Biology, Chicago, Illinois, 2017.
26. \*Panizza C, \*Fox K, Boushey C, Shanks C, [Serrano](https://plus.google.com/u/0/105368062203464006354?prsrc=4) E, Zee J, Fialkowski M, **Banna JC**. Barriers, motivators and perspectives on minimizing lunchtime food waste of early adolescents in the National School Lunch Program [oral presentation]. University of Hawai‘i College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawai‘i, 2017.
27. \*Amore L, Buchthal OV, **Banna JC**. Understanding the enablers and barriers of healthy eating in college students in Hawai’i [oral presentation]. University of Hawai‘i College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawai‘i, 2017.
28. \*Suzuki A, Choi SY, Lim E, Tauyan S, **Banna JC**. Evaluation of factorial validity of a food behavior checklist for low-income Filipinos [poster presentation]. University of Hawai‘i College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawai‘i, 2017.
29. **Banna JC**, \*Panizza C, Boushey CJ, Delp E. A novel method to measure food waste: the mobile food record [poster presentation]. National Association of County Agricultural Agents Western Regional Annual Meeting and Professional Improvement Conference. Kailua-Kona, Hawai‘i, 2016.
30. Banna JC, Tauyan S, Lim E. Evaluation of items on a food behavior checklist for low-income Filipinos [oral presentation]. [Clinical Translational Research Infrastructure Network](http://ctrin.unlv.edu) Annual Meeting. Las Vegas, Nevada, 2016.
31. \*Villiger RK, Boushey CJ, Yonemori K, RD, Novotny R, Fialkowski MK, Esquivel M, **Banna J**. How does Hawai’i stack up: Comparing nutrient intake in 2-8 year old participants in the Children’s Healthy Living (CHL) program in Hawai’i to National Health and Nutrition Examination Survey (NHANES) [poster presentation]. University of Hawaii College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawaii, 2016.
32. **Banna JC**, \*Panizza C, Boushey CJ, Delp E, Lim E.Characterizing early adolescent food waste using the mobile food record [poster presentation]. Experimental Biology Conference. San Diego, California, 2016.
33. \*Panizza C, Boushey CJ, Delp E, Lim E, **Banna JC**.Examination of sociodemographic correlates of plate waste in early adolescent girls [poster presentation]. Experimental Biology Conference. San Diego, California, 2016.
34. \*Webster A, \*Gibby C, Gunther C, Lim E, \*Rose A, **Banna JC**. Assessing knowledge, attitudes, and practices concerning sodium intake in college students [poster presentation]. Experimental Biology Conference. San Diego, California, 2016.
35. Fialkowski MK, \*Gibson WJ, **Banna JC**, Stewart M, Lin G, Leon Guerrero R, Novotny R. Using YouTube to foster asynchronous interaction in an online introductory nutrition course adapted for the Pacific region [poster presentation]. North American College and Teachers of Agriculture (NACTA) Conference. Athens, Georgia, 2015.
36. Fialkowski MK, \*Gibson WJ, \*Yiu E, **Banna JC**, Lin G, Stewart M, Leon Guerrero R, Novotny R. An online introductory nutrition course adapted for Hawai‘i and the Pacific [poster presentation]. Society for Nutrition Education and Behavior. Pittsburgh, Pennsylvania, 2015.
37. **Banna JC**, Bersamin A. Completing an application for NIH R21 innovative measurement tools for community engaged research efforts [poster presentation]. [Clinical Translational Research Infrastructure Network](http://ctrin.unlv.edu) Annual Meeting. Las Vegas, Nevada, 2015.
38. **Banna JC**, Buchthal OV, Tauyan S. Assessment of face validity of a food behavior checklist for limited-resource Filipinos [oral presentation]. [Clinical Translational Research Infrastructure Network](http://ctrin.unlv.edu) Annual Meeting. Las Vegas, Nevada, 2015.
39. **Banna JC**, Gilliland B, Keefe M. Cross-cultural comparison of perspectives on healthy eating among Chinese and American undergraduate students [oral presentation]. International Society for Behavioral Nutrition and Physical Activity Annual Meeting. Edinburg, Scotland, 2015.
40. Reicks M, Banna JC, Gunther C, Richards R, Hongu N, Misner S, Cluskey M, Wong SS, Bruhn C. Motivating Hispanic and Asian parents to engage in practices promoting intake of calcium-rich foods and beverages by early adolescents [poster presentation]. Experimental Biology Conference. Boston, Massachusetts, 2015.
41. \*Mosley MA, Delormier T, **Banna JC.** Food-related beliefs and practices in adolescent girls ages 9-13 and their caregivers on Oʻahu, Hawaiʻi [oral presentation]. University of Hawaii College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawaii, 2015.
42. **Banna JC**, Buchthal OV, Delormier T, Penny ME, Creed-Kanashiro HM. The use of the pile sort method to understand food beliefs and classification systems in adolescents in peri-urban Lima, Peru [poster presentation]. World Congress of Public Health Nutrition. Las Palmas de Gran Canaria, Spain, 2014.
43. \*Mosley MA, Novotny R, **Banna JC**. Eating patterns in adolescent girls on Oʻahu change after one year [oral presentation]. University of Hawaii College of Tropical Agriculture and Human Resources Research Symposium. Honolulu, Hawaii, 2014.
44. \*Martinez Y, Bellajos M, Cluskey M, Johnston P, Reicks M, Richards R, Wong SS, Bruhn C, Gunther C, Misner S, **Banna JC**. Evaluation of messages to motivate parents to promote intake of calcium-rich foods in early adolescents [poster presentation]. Experimental Biology. San Diego, California, 2014.
45. **Banna JC**, Buchthal OV, Delormier T, Creed-Kanashiro HM, Penny ME. Influences on eating and physical activity: a qualitative study in adolescents in a periurban area in Lima, Peru [poster presentation]. Experimental Biology. San Diego, California, 2014.
46. Gunther C, **Banna JC**, Bruhn C, Cluskey M, Wong S, Richards R, Reicks M. Development and testing of fact- and emotion-based messages to motivate parents to engage in practices that promote intake of calcium among 10-13 year-old children [poster presentation]. Experimental Biology. San Diego, California, 2014.
47. \*Galloway J, Nigg C, **Banna JC**. Cost-benefit beliefs as predictors of behavior: a longitudinal study of fruit and vegetable intake and physical activity [poster presentation]. Experimental Biology. San Diego, California, 2014.
48. \*Gonzalez-Quezada D, **Banna JC**, Townsend MS. Evaluation of a short fat behavior scale for low-literate Spanish speakers [poster presentation]. International Society of Behavioral Nutrition and Physical Activity Annual Meeting. San Diego, California, 2014.
49. **Banna JC**, Townsend MS. Assessing fruit and vegetable consumption in limited resource Spanish-speaking audiences: findings from a food behavior checklist validation study [poster presentation]. International Society for Behavioral Nutrition and Physical Activity Annual Meeting. Ghent, Belgium, 2013.
50. \*Ordonez SS, Watters CA, Jars M, **Banna JC**, Takahashi I, Hayes D. Cultural influences on infant feeding practices in a low-income multi-ethnic population in Hawaii [poster presentation]. Undergraduate Research Opportunities Program Symposium. Honolulu, Hawaii, 2013.
51. **Banna JC**, Townsend MS, Kaiser LL, et al. Validation of a food behavior checklist for Spanish speakers [oral presentation]. Society for Nutrition Education Annual Conference. Atlanta, Georgia, 2008.
52. **Banna JC**, Vera Becerra LE, & Townsend MS. Assessing face validity of a physical activity questionnaire for Spanish speakers in California [poster presentation]. International Society of Behavioral Nutrition & Physical Activity Annual Meeting. Banff, Alberta, Canada, 2008.
53. **Banna JC**, Kaiser LL, Townsend MS. Physical activity, television watching and acculturation in Hispanic women: findings from the 2005 California Women’s Health Survey [poster presentation]. American College of Sports Medicine Annual Meeting. Indianapolis, Indiana, 2008.
54. **Banna JC**, Kaiser LL, Townsend MS. The association between acculturation and obesity in Hispanic women: findings from the 2005 California Women’s Health Survey [oral presentation]. Experimental Biology Conference. San Diego, California, 2008.
55. **Banna JC**, Kaiser LL, Townsend MS. Acculturation and physical activity levels and barriers in Hispanic women: Findings from the 2005 California Women’s Health Survey [poster presentation]. Active Living Research Annual Conference. Washington, DC, 2008.

**GRANTS**

**RESEARCH GRANTS AWARDED**

2019-2020 **How does food insecurity affect mental health and academic performance among college students?** Undergraduate Research Opportunities Program

**Banna J, Mentor** (Undergraduate PIs: Brenner, Noa & Khattra, Mehak)**—$9,934**

2018-2019 **Can mHealth an app that measures skin carotenoid work as an optimal biomarker for health and key motivator for F&V intake?** Undergraduate Research Opportunities Program

**Banna J, Mentor** (Undergraduate PIs: Chowdhury, Nahian & Langfelder, Gemady)**—$9,000**

2018-2019 **A secondary data analysis of the quality of a unique diet quality index score with infants in Puerto Rico and Hawaii to assess diet quality.** Undergraduate Research Opportunities Program

**Banna J, Mentor** (Undergraduate PI: Ramirez, Jessica)**—$3,500**

2018-2019 **Perceptions and use of complementary and alternative medicine in Hawaii and Lebanon.** Undergraduate Research Opportunities Program

**Banna J, Mentor** (Undergraduate PIs: Odegard, Brittany & Ferguson, Mollie)**—$5,081**

2016-2019 **Child Health Assessment in the Pacific Summer (CHAPS) Fellowship**.United States Department of Agriculture.

**Banna J, Student Mentor** (PI: Novotny, Rachel and Fialkowski, Marie)**—$300,000**

2017-2018 **Preventing excessive gestational weight gain via short mobile messages in WIC**. National Institutes of Health.

**Banna J, PI—$66,000**

2016-2017 **Let’s Talk Food: Identifying Attitudes Toward Healthy Eating in College Students.** Undergraduate Research Opportunities Program

**Banna J, Mentor** (Undergraduate PI: Amore, Lucia)**—$3,473**

2015-2018 **SNAP and EFNEP Nutrition Education and Obesity Prevention Center of Excellence**.United States Department of Agriculture.

**Banna J, Collaborator** (PI: Stephenson, Laura)**—$ 1,640,000**

2015-2016 **Evaluation of a food behavior checklist for low-income Filipinos.** National Insitutes of Health.

**Banna J, PI—$13,749**

2015-2016 **Multi-site trial using short mobile messages (SMS) to improve infant weight in low-income minorities.** National Insitutes of Health.

**Banna J, PI—$50,000**

2015-2017 **Minimizing Food Waste in Adolescents: Understanding Perspectives to Inform Message Design.** United States Department of Agriculture.

**Banna J, PI—$79,238**

2014-2015 **Development of a Food Behavior Checklist for Limited-Resource Filipinos.** National Insitutes of Health.

**Banna J, PI—$29,949**

2013-2015 **Attitudes on Diet and Physical Activity in Early Adolescents and Influence on Weight and Dietary Intake.** United States Department of Agriculture.

**Banna J, PI—$79,106**

2007-2008 **Validation of a Food Behavior Checklist for Low-Income Spanish Speakers.**

Public Health Institute.

**Banna J, graduate student researcher** (PI: Townsend, Marilyn) **—$96,000**

**TRAVEL GRANTS**

2019 University Research Council, Travel Award, Annual Meeting of the Japan Society for Developmental Origins of Health and Diseases, Tokyo, Japan.

2015 Federation of American Societies for Experimental Biology (FASEB)/Maximizing Access to Research Careers (MARC) Program, Travel Award for one undergraduate mentee, Experimental Biology, San Diego, California.

2014 University Research Council, Travel Award, World Congress of Public Health Nutrition, Las Palmas, Gran Canaria.

2014 Federation of American Societies for Experimental Biology (FASEB)/Maximizing Access to Research Careers (MARC) Program, Travel Award for two undergraduate mentees, Experimental Biology, San Diego, California.

2014 University Research Council, Travel Award, Experimental Biology, San Diego, California.

2013 University Research Council, Travel Award, International Society for Behavioral Nutrition and Physical Activity, Ghent, Belgium.

**OTHER GRANTS**

2018 Fulbright Specialist grant, Funding to provide training in instruction to faculty at Universidad Veritas, Costa Rica

2017 National Research Mentoring Network Proposal Preparation Program (NRMN-P3), Funding to participate in coaching groups at University of Utah

2016 Mountain West Clinical Translational Research - Infrastructure Network (CTR-IN), Funding to attend CTR-IN Grant Writing Workshop

2015 Mountain West [Clinical Translational Research Infrastructure Network](http://ctrin.unlv.edu) (CTR-IN), Award for Visiting Scholars Program

2013 Academy of Nutrition and Dietetics, Affiliate Speaker Grant for Hawaii Dietetic Association 2014 Annual Spring Conference

**PROFESSIONAL SERVICE/HONORS (SELECTED)**

**UNIVERSITY**

2019-present Senator, Manoa Faculty Senate

2017 Judge, UHM Honors Program and Undergraduate Research Opportunities Program Spring Research Symposia Series

2016 Judge, UHM Honors Program and Undergraduate Research Opportunities Program Spring Research Symposia Series

2015 Volunteer, Weigh the Waste event at Hale Aloha Café

2014 Judge, UHM Honors Program and Undergraduate Research Opportunities Program Spring Research Symposia Series

2013 Judge, Proposal Conference, Honors Program & Undergraduate Research Opportunities Program.

2013 Representative for Food Science and Human Nutrition (FSHN), Manoa Experience new student preview day.

**COLLEGE**

2014-2018 College of Tropical Agricultural and Human Resources (CTAHR) Faculty Senator, Representing the Department of Human Nutrition, Food and Animal Sciences (HNFAS).

2013-2018 Judge, CTAHR Student Research Symposium.

2013 Representative, CTAHR New Student Orientation.

**DEPARTMENTAL**

2016-present Member, HNFAS Curriculum Committee.

2012-present Member, Department Dietetics Advisory Committee, HNFAS/CTAHR.

2012-present Associate Graduate Faculty Member-Nutrition.

2016-2018 Chair, Nutrition PhD Program.

2015-2018 Chair, MS Program in Nutritional Sciences.

2015-2018 Assessment Coordinator, MS Program in Nutritional Sciences.

2014-2018 Representative for Graduate Committee on Chair’s Advisory Board

2014-2018 Chair, Graduate Committee.

2017 Director, Didactice Program in Dietetics

2016 Representative, MS in Nutritional Sciences program, American Society for Nutrition Reception for the Membership and University Mixer, Experimental Biology Meeting.

2015 Member, Human Nutrition Lecturer Search Committee, FSHN/CTAHR.

2015 Representative for Nutritional Sciences MS and PhD programs at Manoa Career Center's Graduate & Law Schools Fair.

2015 Representative for Nutritional Sciences MS and PhD programs at Grad Fair hosted by Associated Students of the University of Hawai‘i.

2012-2015 Member and Chair (9/14-3/15), Department Policies and Procedures Committee, HNFAS/CTAHR.

2013 Member, Human Nutrition Assistant Professor Search Committee, FSHN/CTAHR.

**COMMUNITY**

2017 Volunteer, Kokua Market

2014-2016 Secretary, Mid-Pacific Road Runners Club.

2013-2016 Judge, Hawaii State Science & Engineering Fair.

2013-2015 Judge, Honolulu District Science Fair.

2013 Volunteer, advised visiting Japanese students from Ritsumeikan University.

2013 Judge, Hawaii Association of Independent Schools (HAIS) District Science Fair.

2009 Volunteer, Upper Manhattan Health Fair, Community Association of Progressive Dominicans (ACDP). Presented nutrition information in English and Spanish.

**PROFESSIONAL SERVICE**

2014-present **Chair**, Social Media Committee, American Society for Nutrition, Nutrition Education and Behavioral Sciences Research Interest Section

2019-2020 **Chair**, Division of International Nutrition Education, Society for Nutrition Education and Behavior

2015-2017 **Co-chair** (2015-2016) & **Chair** (2016-2017), USDA National Institute of Food and Agriculture Multistate Research Group

2016 **Chair**, Nutrition Education and Behavior Change Mini-Symposium, Nutrition Education and Behavioral Sciences Research Interest Section, Experimental Biology Annual Meeting.

2015-2016 **Reviewer**, Mountain West Clinical and Translational Research –Infrastructure Network (CTR-IN) Pilot Grants

2016 **Reviewer**, Montana State University’s Scholarship and Creativity Grants program

2013-2015 **Co-chair**, Council for Professional Issues (CPI), Hawaii Dietetic Association.

2015 **Reviewer**, Academy of Nutrition and Dietetics Practice Paper: Promoting Ecological Sustainability within Food Systems

2015 **Chair**, Nutrition Education: Developing Healthy Eating and Physical Activity Behaviors Across the Lifespan Mini-Symposium, Nutrition Education and Behavioral Sciences Research Interest Section, Experimental Biology Annual Meeting.

2015 **Organizer and Presenter**, Qualitative Research Methods Workshop Team, American Society for Nutrition, Nutrition Education and Behavioral Sciences Research Interest Section, Experimental Biology Annual Meeting.

2014 **Ad hoc abstract reviewer** for the Experimental Biology 2015 Annual Meeting.

2014 **Ad hoc abstract reviewer** for the International Society for Behavioral Nutrition and Physical Activity 2015 Annual Meeting (ISBNPA).

2013 **Advocacy Volunteer**, American Heart Association. Participated in Healthy Communities Hawai`i Planning Meeting addressing obesity-related policy issues.

2013 **Ad hoc abstract reviewer** for the International Society for Behavioral Nutrition and Physical Activity 2013 Annual Meeting (ISBNPA).

2012 **Contributor**, Spanish Translation Workgroup through the USDA’s Food and Nutrition Service (FNS). Reviewed core messages developed by FNS and translation of messages into Spanish, along with EFNEP, SNAP-Ed coordinators.

2010 **Contributor**, JO Magazine. Composed article “Eat and Run” on appeal of fast food among university students in Amman, Jordan.

2008-2009 **Communications Officer**, Division of International Nutrition Education (DINE), Society for Nutrition Education.

**SELECTED HONORS**

2020 Mid-Career Award, Nutrition Education and Behavioral Science Research Interest Section, American Society for Nutrition

2018 Early Career Award, Nutrition Education and Behavioral Science Research Interest Section, American Society for Nutrition

2016 Nominee, University of Hawaii Excellence in Teaching Award

2015 Nominee, University of Hawaii Frances Davis Award for Excellence in Undergraduate Teaching in the College of Tropical Agriculture and Human Resources

2009 New York Presbyterian Hospital Falcon Award for Service Excellence.

2008 New York State Dietetic Association Scholarship, American Dietetic Association Foundation.

2008 Emerging Investigator Award, Community and Public Health Nutrition Research Interest Section, American Society for Nutrition, Experimental Biology.

**PROFESSIONAL ASSOCIATIONS**

2016-present Society for Nutrition Education and Behavior

2013-present International Society for Behavioral Nutrition and Physical Activity

2012-present Hawaii Dietetic Association

2008-present Salud America! The National Latino Childhood Obesity Prevention Research Network

2007-present Academy of Nutrition and Dietetics

**TEACHING EXPERIENCE**

**SELECTED COURSES TAUGHT IN HUMAN NUTRITION, UNIVERSITY OF HAWAII**

Dept Sem.Yr. Crs No. Course Title Credits No.Stud.

FSHN Fa12 185 Science of Human Nutr. 3 116

FSHN Fa12 451 Community Nutr. 3 25

FSHN Sp13 699 Dir. Rdg. & Res. 5 2

FSHN Sp13 499 Dir. Rdg. & Res. 6 4

FSHN Sp13 185 Science of Human Nutr. 3 27

FSHN Sp13 452 Nutr. Education 3 23

FSHN Sp13 682 Child and Adoles Nutr. 1 12

FSHN Fa13 185 Science of Human Nutr. 3 56

FSHN Fa13 451 Community Nutr. 3 35

FSHN Fa13 499 Dir. Rdg. & Res. 5 3

FSHN Sp14 452 Nutr. Education 3 27

FSHN Sp14 689 Nutr. Epidemiology 3 5

FSHN Sp14 699 Dir. Rdg. & Res. 7 3

FSHN Sp14 499 Dir. Rdg. & Res. 5 2

FSHN Fa14 185 Science of Human Nutr. 3 120

FSHN Fa14 451 Community Nutr. 3 40

FSHN Fa14 499 Dir. Rdg. & Res. 11 7

FSHN Sp15 452 Nutr. Education 3 35

FSHN Sp15 491 Intro to Research 1 14

FSHN Sp15 185 Science of Human Nutr. 3 100

FSHN Sp15 499 Dir. Rdg. & Res. 8 4

FSHN Fa15 451 Community Nutr. 3 25

FSHN Fa15 499 Dir. Rdg. & Res. 4 3

FSHN Sp16 499 Dir. Rdg. & Res. 11 6

FSHN Sp16 185 Science of Human Nutr. 3 69

FSHN Sp16 686 Child and Adoles Nutr. 3 3

FSHN Sp16 699 Dir. Rdg. & Res. 3 1

FSHN Fa16 185 Science of Human Nutr. 3 60

FSHN Fa16 499 Dir. Rdg. & Res. 10 6

FSHN Sp17 185 Science of Human Nutr. 3 61

FSHN Sp17 499 Dir. Rdg. & Res. 13 11

**SELECTED GUEST LECTURES/PRESENTATIONS**

*Research Seminars*

2018 University of Arizona, Guest Lecture; Facilitator: Dr. Kay Hongu. Topic: “Barriers, motivators and perspectives on minimizing lunchtime food waste of early adolescents in the National School Lunch Program.”

2015 RCMI Translational Research Network Obesity and Metabolic Syndromes Cluster Webinar, Presentation; Facilitator: Dr. Deborah Juarez. Topic: “Multi-site trial using short mobile messages (SMS) to improve infant weight in low-income minorities.”

2015 Leeds Beckett University, Guest Lecture; Facilitator: Dr. Hannah Ensaff. Topic: “Assessing face validity of a food behavior checklist for limited-resource Filipinos.”

2015 RMATRIX-II NIH/NIMHD Teleconference, Guest Lecture; Facilitator: Dr. Bruce Shiramizu. Topic: “Development of a food behavior checklist for limited-resource Filipinos.”

2014 FSHN 681: Seminar in Nutritional Science, Course instructor: Alan Titchenal.

Topic: “Influences on eating and physical activity: a qualitative study in adolescents in a periurban area in Lima, Peru.”

2013 Seminar in Nutritional Science; Course instructor: Alan Titchenal.

Topic: “Previous Findings and Future Directions Related to Assessment of and Influences on Dietary Intake in Limited-Resource Audiences.”

*Presentations for Lay/Public Audiences*

2017 *Tertulia de Honolulu* Spanish-language conversation group; Facilitator: Enrique Kohl. Topic: “*Comida sana para la buena salud*.”

2015 Operating Infinity Non-Profit Organization, Nutrition Workshop; Facilitator: Dr. Xu Di. Topic: “Choosing Wisely: Selecting Food for Health.”

2014 Shanghai United Family Hospital and Clinics, Shanghai, China, Continuing Medical Education Lecture; Facilitator: Ann Chiu. Topic: “Using “My Plate” for Dietary Counseling.”

2013 Outreach College Seminar for Japanese students from Yamanashi Gakuin University; Facilitator: Michiko Kahmann. Topic: “Nutrition Education: An Introduction to the Field and Design of Nutrition Education Messages.”

2013 Outreach College Seminar for Japanese students from Yamanashi Gakuin University; Facilitator: Michiko Kahmann. Topic: “Community Nutrition: Providing Dietary Guidance for the Public.”

2013 Food Day; Facilitator: Erika Chinn-Galindo. Topic: “Food Insecurity and Hunger: America’s ‘Hidden Crisis.’”

2013 Hawai‘i Extension Nutrition and Health Program Area Professional Development Workshop; Facilitator: Julia Zee. Topic: “Nutrition Education: Messages and Tools for Behavior Change.”

2013 Instructional Innovations Brown Bag Lunch Workshop Series; Facilitator: Maria Stewart. Topic: “Teaching Innovations from the Great Teachers Seminar.”

2013 Life-II Team Meeting for Expanded Food and Nutrition Education Program Assistants; Facilitator: Carissa Holley. Topic: “Development and Use of the MyPlate Graphic.”

2012 The Science of Human Nutrition; Course instructor: Nate Black

Topic: “Digestion: From Meals to Molecules.”

**SKILLS**

**Computing**: SAS, Food Processor Nutrition Analysis Software, NVivo.

**Languages:** Spanish: fluent. *Instituto Intercultural del Caribe*, Santo Domingo, Dominican

Republic.

Monica K. Esquivel

**College of Tropical Agriculture and Human Resources**

Department of Human Nutrition, Food and Animal Sciences

FTE Distribution: 35% I; 0% R; 30% E; 35%A

**Education**

**Degree University Major**

Bachelors San Diego State University Foods and Nutrition

Masters California State University Northridge Nutrition, Dietetics and Food

Science

PhD University of Hawaii at Manoa Nutrition

**Professional Appointments**

**Title Employer Dates Employed**

Assistant Professor University of Hawaii at Manoa July 2017 - Present

Dietetics Program Director University of Hawaii at Manoa July 2017 - Present

Nutrition Instructor University of Hawaii at Manoa Fall 2015 - June 2017

Junior Researcher, University of Hawaii at Mano a February 2016 - June 2016

Department of Human Nutrition, Food and Animal Sciences

Junior Researcher, University of Hawaii at Manoa May 2015 - February 2016

Children’s Healthy Living Program

Nutrition Instructor, University of Hawaii at Manoa Summer 2015 - Present

Children’s Healthy Living Summer Institute

Undergraduate Student University of Hawaii at Manoa Summer 2016

Fellow Mentor,

Child Health Assessment in the Pacific Undergraduate Summer Fellowship Program

Graduate Research Assistant, University of Hawaii at Manoa August 2012 - May 2015

Children’s Healthy Living Program

**Courses Taught**

* FSHN 185 - The Science of Human Nutrition (3 credit hours)
* FSHN 467 - Medical Nutrition Therapy I
* FSHN 468 - Medical Nutrition Therapy II
* FSHN 492 - Field Experience

**Publications (reverse chronological order)**

**Refereed Journal Publications**

Esquivel MK. Nutrition Strategies for Reducing Risk of Burnout Among Physicians and Health Care Professionals. Am J Lifestyle Medicine. *In press.*

Greenberg JA, Luick B, Alfred JM, Barber LR, Bersamin A, Coleman P, Esquivel M, Fleming T, Leon Guerrero RT, Hollyer J, Lorring Johnson E, Novotny R, Remengesau S, Yamanaka A. The affordability of a thrifty food plan-based market basket in the United States-affiliated Pacific Region. Hawaii Journal of Health and Social Welfare. 2020 79(7).

Esquivel MK, Higa A, Hitchens M, Shelton C, Okihiro M. Keiki produce prescription (KPRx) program feasibility study to reduce food insecurity and obesity risk. Hawaii Journal of Health and Social Welfare. 2020; 79(5).

McElfish PA, Ayers B, Purvis R, Long CR, Sinclair K, Esquivel M, Steelman S. Best practices for community-engaged participatory research with Pacific Islander communities in the USA and USAPI: protocol for a scoping review. BMJ Open. 2018; 8 (1).

Esquivel MK, Fialkowski MK, Aflague T, Novotny R. Engaging Head Start Teachers on Wellness Policy Implementation to Improve the Nutrition and Physical Activity Environment in Head Start Classrooms: A Qualitative Study of the Children’s Healthy Living Program (CHL) in Hawai‘i. *Journal of Family Medicine and Community Health.* 2016.

Esquivel M. Nutritional Assessment and Intervention to Prevent and Treat Malnutrition for Fall Risk Reduction in Elderly Populations. American Journal of Lifestyle Medicine. 2018: 12 (2).

Esquivel MK, Nigg C, Fialkowski MK, Braun K, Li F, Novotny R. Head Start Wellness Policy Intervention in Hawai‘i: A project of the Children’s Healthy Living Program (CHL). *Childhood Obesity*. 2016; 12 (1).

Esquivel MK, Nigg C, Fialkowski JK, Braun K, Li F, Novotny R. Influence of teachers’ personal health behaviors on operationalizing obesity prevention policy in Head Start preschools: A project of the Children’s Healthy Living Program (CHL). *Journal for Nutrition Education and Behavior.* 2016; 48 (5).

McElfish PA, Purvis RS, Esquivel MK, Sinclair KA, Townsend Ing C, Hawley NL, Haggard-Duff LK, Kaholokula JK. Diabetes disparities and promising interventions to address diabetes in Native Hawaiian and Pacific Islander populations. [Under Review]

Esquivel MK, Aflague T, Yamanaka A, Leon Guerrero R, Coleman P, Fleming T, Shallcross L, Fialkowski M, Davis J, Boushey C, Wilkens L, Novotny R. AFRI Diet Quality and Overweight or Obesity Status of Children in Preschool Settings in the US Affiliated Pacific Region- Children’s Healthy Living Program. Childhood Obesity. [Under Review]

**Published Abstracts**

Experimental Biology (San Diego, California) 2016

Poster Presentation: *Validity of Head Start teacher height and weight measurements, BMI and child growth assessments: training needs for longitudinal tracking.*

Experimental Biology (Boston, Massachusetts) 2015

Oral Presentation: *Comparing growth assessments using CDC and WHO reference data in Native Hawaiian Pacific Islander children: baseline data from the Children’s Healthy Living Program (CHL) in Hawaiʻi*

Poster Presentation: *Wellness policy and the Head Start environment: the moderating role of Head Start teachers in the Children’s Healthy Living (CHL) program in Hawai‘i.*

Society for Nutrition Education and Behavior Annual Conference (Milwaukee, Wisconsin) 2014

Poster Presentation: *Head Start teachers & wellness policy: Children’s Healthy Living in Remote Underserved Minority Populations of the Pacific.*

**Unpublished Abstracts**

Oceania Foods Conference (Auckland, New Zealand) 2019

Featured International Guest Speaker: Children’s Healthy Living Program Efforts in the North Pacific to enhance Food Composition and Dietary Data

National Health Outreach Conference (Ft. Worth, Texas) 2019

Oral Presentation: Farmacy Produce Rx Pilot: Community Health Center, Farmer’s Market, and University Collaboration to Promote Local Produce Consumption in Children.

Hawai‘i Agriculture Conference 2017

Poster Presentation: A Community Health Center Approach to Support Local Agriculture.

College of Tropical Agriculture and Human Resources Student Research Symposium

(Honolulu, Hawai‘i) 2015

Poster Presentation: *Wellness policy and the Head Start environment: the moderating role of Head Start teachers in the Children’s Healthy Living (CHL) program in Hawai‘i.*

College of Tropical Agriculture and Human Resources Student Research Symposium

(Honolulu, Hawai‘i) 2014

Oral Presentation: *What fruits and vegetables do preschoolers eat? A project of the Children’s Healthy Living Program (CHL).*

College of Tropical Agriculture and Human Resources Student Research Symposium

(Honolulu, Hawai‘i) 2013

Poster Presentation: *A formative assessment of the development and evaluation of the CHL childcare center wellness policy.*

**Leadership Roles (Committees, Boards, Advisory, etc.)**

HNFAS Department Committees:

- Curriculum Committee

- Scholarship Committee

- Dietetics Advisory Committee

- Assessment Coordinator

- Chair’s Advisory Board

CTAHR College Committees:

- CTAHR Faculty Senate Instructional Committee

- Student Research Symposium Planning Committee

Other Committees:

- Assistant Chair, Nutrition Graduate Programs

- Ola HAWAII Community Engagement Core, John A Burns School of Medicine

* Health Professions Education Conference Planning Committee

**Graduate Students**

Category Current Number of Students Number Graduated (Career)

*Chair* of Master’s Committees 2

*Chair* of PhD Committees 1

Member of Master’s Committees

Member of PhD Committees 2

**Grant Support**

Title of Grant: Grow Eat Think Local: Farm to School (POW 14-243)

Source of Grant: College of Tropical Agriculture and Human Resource Cooperative Extension and Hawaii Department of Health Supplemental Nutrition Assistance Program

Total Dollar Value (Your share of the grant value): $137,500

Dates of Grant: October 1, 2019 - September 30, 2021

Role (PI, CoPI): Investigator

Title of Grant: Interinstitutional Innovative Teaching Award: Innovating clinical nutrition instruction for the Pacific.

Source of Grant: Association of Public and Lan-Grant Universities 2019 Academic Programs Section Innovation in Teaching Award

Total Dollar Value (Your share of the grant value): $5,000 (with additional $2,000 institution match)

Dates of Grant: October 1, 2019 to August 31, 2020

Role (PI, CoPI): Investigator

Title of Grant: Farmacy Produce Prescription Evaluation

Source of Grant: Contract with Waianae Coast Comprehensive Health Center

Total Dollar Value (Your share of the grant value): $21,500

Dates of Grant: September 2018 - September 2019 and October 2019 - February 2020

Role (PI, CoPI): Investigator

**Presentations at Conferences**

Title: Validity of Head Start teacher height and weight measurements, BMI and child growth assessments: training needs for longitudinal tracking.

Authors:

Name of Conference: Experimental Biology

Location: San Diego, California

Date of Presentation: 2016

Title: Comparing growth assessments using CDC and WHO reference data in Native Hawaiian Pacific Islander children:baseline data from the Children’s Healthy Living Program (CHL) in Hawaii

Authors:

Name of Conference: Experimental Biology

Location: Boston, Massachusetts

Date of Presentation: 2015

Title: Wellness policy and the Head Start environment: the moderating role of Head Start teachers in the CHildren’s Healthy Living (CHL) program in Hawaii

Authors:

Name of Conference: Experimental Biology

Location: Boston, Massachusetts

Date of Presentation: 2015

Title: Head Start teachers & wellness policy: Children’s Healthy Living in Remote Underserved Minority Populations of the Pacific

Authors:

Name of Conference: Society for Nutrition Education and Behavior Annual Conference

Location: Milwaukee, Wisconsin

Date of Presentation: 2014

Title: Children’s Healthy Living Program Efforts in the North Pacific to enhance Food Consumption and Dietary Data

Authors:

Name of Conference: Oceania Foods Conference

Location: Aukland, New Zealand

Date of Presentation: 2019

Title: Farmacy Produce Rx Pilot: Community Health Center, Farmer’s Market, and University Collaboration to Promote Local Produce Consumption in Children

Authors:

Name of Conference: National Health Outreach Conference

Location: Ft. Worth, Texas

Date of Presentation: 2019

Title: A Community Health Center Approach to Support Local Agriculture

Authors:

Name of Conference: Hawaii Agriculture Conference

Location:

Date of Presentation: 2017

Title: Wellness Policy and the Head Start environment: the moderating role of Head Start teachers in the Children’s Healthy Living (CHL) program in Hawaii

Authors:

Name of Conference: College of Tropical Agriculture and Human Resources Student Research Symposium

Location: Honolulu, Hawaii

Date of Presentation: 2015

Title: What fruits and vegetables do preschoolers eat? A project of the Children’s Healthy Living Program (CHL)

Authors:

Name of Conference: College of Tropical Agriculture and Human Resources Student Research Symposium

Location: Honolulu, Hawaii

Date of Presentation: 2014

Title: A formative assessment of the development and evaluation of the CHL childcare center wellness policy.

Authors:

Name of Conference: College of Tropical Agriculture and Human Resources Student Research Symposium

Location: Honolulu, Hawaii

Date of Presentation: 2013

***Honors/Awards***

Emerging Dietetic Leader Award 2019

Hawai‘i Academy of Nutrition and Dietetics

Postdoctoral Grant Award, $150,000 2016

United States Department of Agriculture- Agriculture and Food Research Initiative

Lara Hackney, MS, RD

University of Hawai‘i at Mānoa

**College of Tropical Agriculture and Human Resources**

Department of Human Nutrition, Food and Animal Sciences

FTE Distribution: 100% I; 0% R; 0% E

**Education**

Master of Science, Nutrition – University of New Haven, Connecticut

Bachelor of Science, Nutrition with an option in Dietetics – California State University of Fresno

Associate of Arts – College of the Sequoias, Visalia, California

**Certification & Licensure**

Registered Dietitian Nutritionist, Registration No. 841778, American Academy of Nutrition and Dietetics

Dietetic Internship – Porterville Developmental Center, Porterville California

Serve Safe Food Production Manager Certified – 1/2020 – 1/2025

**Professional Appointments**

Department of Human Nutrition, Food & Animal Science, University of Hawai‘i, Mānoa 2019 - Present

Full-time Instructor

* Teach undergraduate classes related to food science and human nutrition
* Cooking demo classes using local ingredients with CTAHR students
* Maintain Certified Kitchen for the AGSCI Lab

University of Phoenix, Kapolei, Hawai‘i 2010 - Present

Adjunct Faculty

* Facilitate classes in Health and Wellness, Nutrition, and Business Management. Lead Faculty Area Chair 2015 in Sciences.
* Completed five rigorous faculty evaluations on fellow instructors using University standards with constructive feedback.
* Achieved commendable evaluations through having timely feedback to students, varied media for facilitation, encouraging critical thinking, and active engagement throughout the class.

Aramark Healthcare, Wahiawa General Hospital, Wahiawa, Hawai‘i 2005 – 2018

General Manager: Food and Nutrition Services, Environmental Services, and Clinical Nutrition

Led the overall management of operational and financial aspects for the Food and Nutrition Services and Environmental Services for a hospital with 160 licensed beds consisting of 53 acute care and 107 long-term care. Oversaw two Aramark managers, one client supervisor, and 48 client employees with a total managed budget of approximately $3 million.

* Reached and maintained safety prevention assessments above 90% on an annual basis, with no Aramark work-related injuries and a frequency rate of 1.85 percent for all work-related injuries.
* Achieved successful sanitation audits by the Department of Health Sanitation Branch every four to six months with a “green” placard awarded since initial visit October 2014.
* Successful Long-Term Care Department of Health Annual Surveys since 2005 using safety and sanitation guidelines along with nutritional parameters for meal service.
* Met Corporate and Hospital compliance for all cash handling through audits and policy controls.
* Mentored Dietetic Interns in the areas of Production and Management, ensuring successful completion of required competencies to become a Registered Dietician (RD).
* Rolled out a new Point of Sale System in 2016 that contributed to a year over year increase in revenue via a payroll deduct system.
* Launched new patient menu and GeriMenu software in 2006, improving efficiency in the Diet Office, and rebranded the patient menu in 2016, creating a more centralized national branded menu.
* Selected as a Patriotic Employer from the Office of the Secretary of Defense in 2016, for supporting a location manager involved with Military duties away from work.
* Launched new retail menu in 2016 with the addition of National Labeling Standards to provide nutritional knowledge with meal choices.
* Awarded Aramark Outstanding Volunteer Award in 2017 for work with the local elementary school as an Aina Docent, Parent Teacher Student Organization Board, and School Community Council Board.

Received a Certificate of Appreciation from the University of Hawai‘i at Manoa Dietetics Internship Program in 2018 for mentoring dietetic interns over the past 5 years.

# Assistant Director of Patient Services, Aramark Healthcare, Kaweah Delta District Hospital

Adjunct Faculty, College of the Sequoias

# Clinical Dietitian, Cypress Rehabilitation Center, Division of Kaweah Delta District Hospital

# Medical Nutritional Sales Representative, Abbott Laboratories

# Clinical Dietitian, Marriott at Cypress Rehabilitation Center, Division of Kaweah Delta District Hospital

**Courses Taught: Course Number and Title (credits)**

FSHN 112 Food Service Safety Sanitation (2)

FSHN 181 Intro to Food Preparation (3)

FSHN 181L Food Preparation Laboratory (1)

FSHN 311 Food Service Systems Management (3) Spring Semester

FSHN 312 Food Service Production & Operations (3) Fall Semester

**Creative Works**

Zoom cooking classes for CTAHR students, November 2020 to present

# Leadership and Community Involvement

Parent Teacher Student Organization Mililani Middle School – President 2019-2020, 2018-2019 School Year, Vice President 2017-2018 School Year

School Community Council Mililani Uka Elementary School – Board Member 2013-2019

Parent Teacher Student Organization Mililani Uka Elementary School – President – 2016-2017 School Year

Aina in the Schools – Volunteer at Mililani Uka Elementary School – 2013-2017

Start Trainer – Aramark Healthcare – 2014 to 2018

Registered Dietitian Internship Preceptor – 1997 to present

Academy of Nutrition and Dietetics member – 1995 to present

Commission on Dietetic Registration – 1996 to present

**Grant Support**

Title of Grant: Enhancing local pork marketing for Oahu hog producers

Source of Grant: Hawai‘i Department of Agriculture

Total Dollar Value (Your share of the grant value): $0

Dates of Grant: 11/20-08/21

Role: (PI, CoPI): CoPI

Title of Grant: Creating a Food Security Infrastructure at UH Mānoa to Strengthen Tomorrow’s Workforce

Source of Grant: Chamber of Commerce of Hawai‘i

Total Dollar Value (Your share of the grant value): $0

Dates of Grant: 7/2019 – 6/2021

Role: (PI, CoPI): CoPI

Yanghua He, Ph.D.

Assistant Professor in Animal Genomics and Epigenomics

FTE Distribution: 60% I; 40% R; 0% E

Department of Human Nutrition, Food and Animal Sciences

College of Tropical Agriculture and Human Resources

University of Hawaii at Manoa (UHM), Honolulu, HI 96822, USA

Phone (office): 808-956-7090

Email: yanghua.he@hawaii.edu

Website: https://www.ctahr.hawaii.edu/site/Bio.aspx?id=HEYAN

# SUMMARY

The long-term objective of my research program is to study interactions between genetics and environments in animals and humans using genomic and epigenomic approaches to eventually better serve our life and improve the quality of our life. I was well-trained in Genomics and Epigenomics fields with the platforms of Large Next Generation Sequencing (NGS) datasets and high-density genotypes and phenotypes data in animal and human complex diseases and traits for decades. Also, extensive experience in Genome and Epigenome Editing utilizing CRISPR-based technologies was gained at St. Jude Children’s Research Hospital to beat children’s Sickle Cell Disease, which would be a powerful weapon to use in the post-genome era. Due to this solid background and experience, I am so confident to oversee my research at UHM successfully.

# RESEARCH INTERESTS

* Livestock animal production: applying genomics and epigenomics approaches as well as computational methods to improve livestock animal production;
* Diseases: utilizing high throughput sequencing datasets to elucidate the mechanisms of diseases in animals and humans and pinpoint the causal genetic variants of the disease using CRISPR-based technologies;
* Nutrigenomics: studying the mechanisms of how different diets contribute to different phenotypes (eg. BMI for evaluating obesity) based on omics-data.

# EDUCATION

**2012 Doctor of Philosophy:** Animal Genetics and Breeding, China Agricultural University,

Beijing, China

Dissertation: Epigenetic mechanisms of bovine mastitis

**2009 Master of Science:** Animal Genetics and Breeding, China Agricultural University, Beijing,

China

Thesis: Association analysis of gene single nucleotide polymorphisms (SNPs) with milk production traits in Chinese Holstein

**2006 Bachelor of Science:** Animal Science, Inner Mongolia Agricultural University, Inner Mongolia, China

Emphasis: Computational simulation of cashmere growth of Inner Mongolia white cashmere goats

**2005 Specialist:** Computer Science, Inner Mongolia Agricultural University, Inner Mongolia, China

# PROFESSIONAL EXPERIENCE

**2019 – Present Assistant Professor (tenure-track) of Animal Genomics:** University of Hawaii

at Manoa, College of Tropical Agriculture and Human Resources, Department of Human Nutrition, Food and Animal Sciences **Currently working on:**

* Project 1: Genetic improvements of Hawaii beef cattle using genomic approaches
* Project 2: Epigenetic regulation during embryonic development in Myostatin transgenic mice

**2019 – Present Graduate Faculty** (Concurrent Position): Animal Science Program, University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources, Department of Human Nutrition, Food and Animal Sciences

**2019 – Present Graduate Faculty** (Concurrent Position): Nutritional Sciences Program, University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources, Department of Human Nutrition, Food and Animal Sciences

**2019 – Present Graduate Faculty** (Concurrent Position): Molecular Biosciences and Bioengineering Program, University of Hawaii at Manoa, College of Tropical Agriculture and Human Resources, Department of Human Nutrition, Food and Animal Sciences

**2017 – 2019 Postdoctoral Research Associate**: St. Jude Children’s Research Hospital, Hematology Department, Memphis, Tennessee, USA

• Project: Epigenome Editing in Children’s blood disorders using CRISPRbased techniques

**2012 – 2017 Postdoctoral Research Associate**: University of Maryland, Department of Animal and Avian Sciences, College Park, Maryland, USA

* Project 1: Identification of sputum epigenetic biomarkers of lung cancer
* Project 2: DNA methylation landscape and regulatory elements in chicken germ stem cell differentiation
* Project 3: Epigenetic analysis in SPF chicken lines resistant or susceptible to Marek’s disease (MD)
* Project 4: Systems Biology studies of grass-fed and grain-fed beef cattle

**2011 – 2012 Research Assistant**: Qingdao Agricultural University, College of Animal Science & Technology, Qingdao, China

• Project: Molecular improvements and breeding of Chinese fine wool sheep

**2007 – 2012 Graduate Research Assistant** (leading to a PhD degree): China Agricultural University, Beijing, China

**2006 – 2007 Sales Representative**, Beijing Blest Biotechnology Development Co., Ltd. Beijing, China

## Honors and awards

**2020** A Faculty Travel Grant in the amount of $1,700 from the University of Hawaii at Manoa, supporting the travel for the Plant and Animal Genome XXVIII Conference in San Diego, California, USA

**2017** Shaffner Award, **First Place** Presentation of Research in Poultry, 31st Annual Symposium, Department of Animal and Avian Sciences, University of Maryland, USA

**2015** Travel fellowship with International Plant & Animal Genome Conference XXIII. Animal Epigenetics workshop, San Diego, CA, USA

**2014** Travel scholarship with 10th International Symposium on Marek’s Disease and Avian Herpesviruses. East Lansing, MI. USA

**2012** Best Ph.D. dissertation Award with honor of China Agricultural University, China

**2011** Research Accomplishment Award with honor of China Agricultural University, China

**2009** Outstanding Research Award with honor in 7th national academic conference of Cattle Science Association of Chinese Animal and Veterinary Society, Nanjing city, China

**2009** Best Paper Award for Master of Science Degree with honor of China Agricultural University, China

## Leadership experience

**2018 Organizing Committee and Leadership Committee:** The Conference

“International Conference & Exhibition on Genome Science” in San Diego, USA

**2018 – 2019** **Secretary:** St. Jude Toastmasters Club, Toastmasters International, St. Jude Club,

Memphis, USA

**Primary duties:** maintain all club records, manage club files, handle club correspondence and take the minutes at each club and executive committee meeting; help the president to make the club get more successes.

**2012 – 2017 Laboratory manager:** University of Maryland, College Park, USA

**Primary duties:** Lab routine management and maintenance; reagents and lab equipment orders; negotiation with companies; lab environment and safety training; new members training; project progress tracking of graduate students and visiting scholars; troubleshooting of project problems; transfer work with outgoing members; installation, management, and maintenance of our computational server and storage server; edit and revise grant proposals for the supervisor.

**2009 – 2012 Director:** Graduate Student Association, China Agricultural University, Beijing, China

**Primary duties:** Bridging between the classmates and the Department/the University; helping with psychical and emotional constructions for the classmates; and organizing class activities.

**2002 – 2006 Secretary:** Undergraduate Student Association, Inner Mongolia Agricultural University, Hohhot city, Inner Mongolia, China

**Primary duties:** Checking the classmates and troubleshooting their problems/issues during the study and organizing class activities.

# SCHOLARSHIP

*Note:* **Bold** indicates the author’s name. Asterisk (\*) stands for the first author or equal-first author.

## Refereed Journal Articles

1. Jianan Liu, Fang Liu, Wentao Cai, Cunling Jia, Ying Bai, **Yanghua He**, Weiyun Zhu, Robert

W. Li, Jiuzhou Song. Jejunal Microbiome and Bile Acids Induced by Diets in Angus Beef Cattle. *Animal Microbiome* volume 2, Article number: 33 (2020)

1. Hao Bai, **Yanghua He**, Yanli Lin, Qixin Leng, José Carrillo, Jianan Liu, Feng Jiang, Jilan

Chen, Jiuzhou Song. Identification of a novel differentially methylated region adjacent to ATG16L2 in lung cancer cells using methyl-CpG binding domain protein enriched genome sequencing. *Genome*. Accepted.

1. Hao Bai, **Yanghua He**, Yi Ding, Qin Chu, Ling Lian, Eliyahu M Heifetz, Ning Yang, Hans H Cheng, Huanmin Zhang, Jilan Chen, Jiuzhou Song. Genome-wide characterization of copy number variations in the host genome in genetic resistance to Marek's disease using next generation sequencing. *BMC Genetics*. 2020 Jul 16; 21(1):77. doi: 10.1186/s12863-020-00884w.
2. Ying Bai, José A. Carrillo, Yaokun Li, **Yanghua He**, Jiuzhou Song. Diet induced the change of mtDNA copy number and metabolism in Angus cattle. *Journal of Animal Science and Biotechnology* volume 11, Article number: 84 (2020)
3. Cicera R. Lazzarotto, Nikolay L. Malinin, Yichao Li, Ruochi Zhang, Yang Yang, **Yanghua He**, Xin Lan, Kasey Jividen, Varun Katta1, Natalia G. Kolmakova, Christopher T. Petersen, Qian Qi, Evgheni Strelcov, Samantha Maragh, Giedre Krenciute, Jian Ma, Yong Cheng, Shengdar Q. Tsai. CHANGE-seq reveals genetic and epigenetic effects on CRISPR–Cas9 genome-wide activity. ***Nature Biotechnology*** (2020). https://doi.org/10.1038/s41587-0200555-7
4. **Yanghua He\***, Bo Han, Yi Ding, Huanmin Zhang, Li Zhang, Chunfang Zhao, Ning Yang, and Jiuzhou Song. *LincGALMD1* regulates viral gene expression in the chicken. *Frontiers in Genetics*, 10:1122. 2019 doi: 10.3389/fgene.2019.01122
5. Hao Bai, **Yanghua He**, Yi Ding, José A. Carrillo, Huanmin Zhang, Ramesh K. Selvaraj, Jilan Chen, Jiuzhou Song. Allele-Specific Expression (ASE) and Differential Expression (DE) of CD4+ T Cells in response to Marek’s Disease Virus Infection. *Genes* 2019, 10, 718; doi:10.3390/genes10090718
6. Yaokun Li, José A. Carrillo, Yi Ding, **Yanghua He**, Chunping Zhao, Jianan Liu, Linsen Zan, Jiuzhou Song. DNA methylation, microRNA expression profiles and their relationships with transcriptome in grass-fed and grain-fed Angus Cattle rumen tissue. *Cold Spring Harbor Laboratory*, 2019, doi: https://doi.org/10.1101/581421
7. Hao Bao, **Yanghua He\***, Yi Ding, Shuang Chang, Huanmin Zhang, Jilan Chen, Jiuzhou Song. Parent-of-origin has no detectable effect on survival days of Marek's disease virus infected White Leghorns. *Poultry Science*. 2019 May 10. pii: pez209. doi: 10.3382/ps/pez209.
8. Lingyang Xu, **Yanghua He**\*, Yi Ding, George E. Liu, Huanmin Zhang, Hans H. Cheng, Robert L. Taylor Jr, Jiuzhou Song. Genetic assessment of inbred chicken lines indicates genomic signatures of resistance Marek’s disease. *Journal of Animal Science and Biotechnology*. December 2018, 9:65. (Equal-first author)
9. **Yanghua He\*,** Qisheng Zuo, John Edwards, Keji Zhao, Jinzhi Lei, Wentao Cai, Qing Nie, Bichun Li, and Jiuzhou Song. DNA Methylation and Regulatory Elements during Chicken Germline Stem Cell Differentiation. ***Stem Cell Reports (IF 7.34)*.** Cell Press. Published Online: April 19, 2018. DOI: https://doi.org/10.1016/j.stemcr.2018.03.018
10. Bo Han, **Yanghua He\***, Li Zhang, Yi Ding, Ling Lian, Chunfang Zhao, Jiuzhou Song, and Ning Yang. Long intergenic non-coding RNA GALMD3 in chicken Marek’s disease. *Scientific Reports*. 2017 Aug 31;7(1):10294. (Equal-first author)
11. Lingyang Xu, **Yanghua He\***, Yi Ding, Guirong Sun, Jose Carrillo, Yaokun Li, Mona Ghaly, Li Ma, Huanmin Zhang, George Liu, Jiuzhou Song. Characterization of copy number

variation's potential role in Marek’s Disease. International Journal of Molecular Sciences. 2017,

18(5), 1020; doi:10.3390/ijms18051020. (Equal-first author)

1. Tahir Usman, Yachun Wang, Chao Liu, **Yanghua He**, Xiao Wang, Yichun Dong, Hongjun Wu, Airong Liu, Ying Yu. Novel SNPs in IL-17F and IL-17A genes associated with somatic cell count in Chinese Holstein and Inner-Mongolia Sanhe cattle. Journal of Animal Science

and Biotechnology. Journal of Animal Science and Biotechnology. 2017. 8:5. doi: 10.1186/s40104-016-0137-1

1. Dong Li, **Yanghua He**, Jiuzhou Song, Yani Zhang and Bichun Li. Regulation of crucial lncRNAs in differentiation of chicken embryonic stem cells to spermatogonia stem cells. *Animal Genetics*. 2016. doi: 10.1111/age.12510.
2. **Yanghua He\***, Minyan Song, Yi Zhang, Xizhi Li, Jiuzhou Song, Yuan Zhang and Ying Yu. Whole-genome regulation analysis of histone H3 lysin 27 trimethylation in subclinical mastitis cows infected by Staphylococcus aureus. *BMC Genomics*. 2016 Aug 8; 17(1): 565. doi: 10.1186/s12864-016-2947-0.
3. Minyan Song, **Yanghua He**, Huangkai Zhou, Yi Zhang, Xizhi Li, Ying Yu. Combined analysis of DNA methylome and transcriptome reveal novel candidate genes relevant with susceptibility to bovine *Staphylococcus aureus* subclinical mastitis. *Scientific Reports* 6, Article number: 29390 (2016) doi:10.1038/srep29390
4. José A. Carrillo, **Yanghua He**, Yaokun Li, Richard A. Erdman, Tad Sonstegard, Jiuzhou Song. Integrated metabolomic and transcriptome analyses reveal finishing forage affects metabolic pathways related to beef quality and animal welfare. *Scientific Report*s 6, Article number: 25948 (2016) doi:10.1038/srep25948
5. **Yanghua He\***, Yi Ding, Fei Zhan, Huanmin Zhang, Gangqing Hu, Keji Zhao, Ning Yang, Jiuzhou Song. The conservation and signatures of lincRNAs in Marek's disease of chicken. *Scientific Reports*, 5, 15184; doi: 10.1038/srep15184 (2015).
6. Nan Liu, J. N. He, W. M. Yu, Kaidong Liu, Ming Cheng, Jifeng Liu, **Yanghua He**, Jinshan Zhao, X. X. Qu. Transcriptome analysis of skeletal muscle at prenatal stages in Polled Dorset versus Small-tailed Han sheep. *Genet Mol Res.* 2015 Feb 6;14(1):1085-95. doi: 10.4238/2015.February.6.12.
7. Yaokun Li, José A. Carrillo, Jianan Liu, George Liu, **Yanghua He**, Yi Ding, Chunping Zhao, Linsen Zan, and Jiuzhou Song. Transcriptomic profiling of spleen in grass-fed and grain-fed Angus cattle. *PLOS One*. 2015 Sep 14; 10(9): e0135670. doi: 10.1371/journal.pone.0135670. eCollection 2015.
8. José A. Carrillo, **Yanghua He**, Juan Luo, Kimberly R. Menendez, Nathaniel L. Tablante, Keji Zhao, Joseph N. Paulson, Bichun Li, Jiuzhou Song. Methylome Analysis in Chickens Immunized with Infectious Laryngotracheitis Vaccine, *PLOS One*. Published: June 24, 2015DOI: 10.1371/journal.pone.0100476.
9. Yaokun Li, José A. Carrillo, Yi Ding, **Yanghua He**, Chunping Zhao, Linsen Zan, and Jiuzhou Song. Ruminal Transcriptomic Analysis of Grass-Fed and Grain-Fed Angus Beef Cattle. *PLOS One*. Published: June 19, 2015DOI: 10.1371/journal.pone.0116437.
10. Apratim Mitra, Juan Luo, **Yanghua He**, Yulan Gu, Huanmin Zhang, Keji Zhao, Kairong Cui and Jiuzhou Song. Histone modifications induced by MDV infection at early cytolytic and latency phases. *BMC Genomics* 2015, 16:311. doi: 10.1186/s12864-015-1492-6.
11. **Yanghua He\***, Jose A. Carrillo, Juan Luo, Yi Ding, Fei Tian and Jiuzhou Song. Genome-wide mapping of DNase I hypersensitive sites and association analysis with gene expression in MSB1 cells. *Front Genet*. 13 October 2014 | doi: 10.3389/fgene.2014.00308
12. Nan Liu, Hegang Li, Kaidong Liu, Juanjuan Yu, Ming Cheng, Wei De, Jifeng Liu, Shuyan Shi, **Yanghua He** and Jinshan Zhao. Differential expression of genes and proteins associated with wool follicle cycling. *Mol Biol Rep*. 2014 May 22
13. Xiaoshuo Wang, Yuan Zhang, **Yanghua He**, Peipei Ma, Lijun Fan, Yachun Wang, Yi Zhang, Dongxiao Sun, Shengli Zhang, Chuduan Wang, Jiuzhou Song and Ying Yu. Aberrant promoter methylation of the CD4 gene in peripheral blood cells of mastitic dairy cows. *Genetics and molecular research*. 2013, 12(4): 6228-6239.
14. **Yanghua He\***, Ying Yu, Yuan Zhang, Jiuzhou Song, Apratim Mitra, Yachun Wang, Dongxiao Sun, Yi Zhang, Shengli Zhang. The genomic landscape of H3K27me3 modification in bovine lymphocytes. *Plos One*. Published: June 28, 2012 DOI: 10.1371/journal.pone.0039094
15. Jian Gao, Han-qi Zhang, Jian-zhong He, **Yanghua He**, Shu-mei Li, Rong-guang Hou, Qiaoxing Wu, Yang Gao and Bo Han. Characterization of Prototheca zopfii Associated with Outbreak of Bovine Clinical Mastitis in Herd of Beijing, China. *Mycopathologia Online First™*, 9 December 2011. DOI 10.1007/s11046-011-9510-y
16. **Yanghua He\***, Qin Chu, Peipei Ma, Yachun Wang, Qin Zhang, Dongxiao Sun, Yi Zhang, Ying Yu and Yuan Zhang. Association of bovine *CD4* and *STAT5b* single nucleotide polymorphisms with somatic cell scores and milk production traits in Chinese Holsteins. *Journal of Dairy Research* 2011.78: 242-249.
17. **Yanghua He\***, Ying Yu and Yuan Zhang. Relationships between copy number variations and human disease and its perspective in animal disease-resistant breeding. *HEREDITAS (Beijing)*. November 2008. 30(11): 1385―1391 (in Chinese)

## Extension Publications

1. Jinzeng Yang, Michael DuPonte, Douglas Vincent, Kyle Caires, **Yanghua He**, Nicole Correa, Lehua Wall, Keala Cowell, Marla Fergerstrom. DNA-Based Bull Selection and Artificial Insemination for Grass-Fed Beef Cattle Production. 2020 June. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/AAS-1.pdf

## Conference Proceedings

1. **Yanghua He\*,** Ning Yang, and Jiuzhou Song. The current and future of epigenetics in poultry health. Proceeding paper. THE XXV WORLD'S POULTRY CONGRESS. Beijing, China. 2016.
2. **Yanghua He\*** and Jiuzhou Song. The Current and Future of Epigenetics of Marek’s Disease in Chickens. The 62nd Annual National Breeders Roundtable. Breeders Roundtable, 2013 Pages 19-25

## Manuscripts Under Review/Development

1. **Yanghua He\***, Qian Qi, Byoung Ryu, Chunliang Li, Yong Cheng. A novel epigenome editor. Writing the manuscript for *Nature Methods*.
2. **Yanghua He\***, Hao Bai, Jose Adrian Carrillo, Yaokun Li, Guirong Sun, Jiuzhou Song. DNA methylation footprints in chicken Marek’s disease. Preparing.
3. Qian Qi, Li Cheng, **Yanghua He**, Xing Tang, Yichao Li, Ruopeng Feng, Peng Xu, Xin Zhou, Shondra Pruett-Miller, Ross Hardison, Mitchell Weiss. Dynamic CTCF occupancy rewires developmentally essential cis-regulatory element interactions. *Nature Genetics*. Under review.
4. José A. Carrillo, Yaokun Li, **Yanghua He**, Derek Bickhart, Wentao Cai, George E. Liu, Jiuzhou Song. Growth curve, important economic traits and beef quality characteristics of Grass-fed Angus steers. *Journal of Animal Science*. Under Review.

## Book Chapters

1. **Yanghua He\*** and Jiuzhou Song. 2016. Book Chapter 15 Bioinformatics analysis of Epigenetics. In: Bioinformatics in Aquaculture (edited by John Liu), Blackwell Publishing, Ames, IA. ISBN10: 1118782356. ISBN13: 9781118782354. Publication date: 03 February 2017. Publication City/Country New York, United States.

https://onlinelibrary.wiley.com/doi/pdf/10.1002/9781118782392.ch15

## Patents

1. **Yanghua He**, Yuan Zhang, Ying Yu. The molecular method of detecting dairy cattle with different milking performance, China Agricultural University, Application No. 201010242552.5. July 2010.

## Refereed Conference Abstracts

1. **Yanghua He**, Huong Thanh Vu, Yongjie Xu, Haixia Xu, Jinzeng Yang. Epigenetic mechanisms of myogenesis in myostatin transgenic mice. International Plant & Animal Genome Conference XXIII. San Diego, CA, USA. January 11 - 15, 2020
2. **Yanghua He**, Qian Qi, Yong Cheng. Functional Epigenetics in Erythropoiesis. Genome San Diego 2018. San Diego, CA, USA. November 26-28, 2018
3. **Yanghua He** and Jiuzhou Song. Epigenetic studies in Chicken Marek’s Disease. 31st Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 25, 2017
4. **Yanghua He**, Qisheng Zuo, Bichun Li and Jiuzhou Song. Epigenetic regulation in chicken germ stem cell differentiation. Epigenetic workshop. International Plant & Animal Genome Conference XXIII. San Diego, CA, USA. January 14-18, 2017.
5. Hao Bai, **Yanghua He**, Yi Ding, Huanmin Zhang, Jiuzhou Song. Allele-Specific Expression (ASE) of CD4+ T Cells in response to Marek’s Disease Virus Infection. Poultry workshop. International Plant & Animal Genome Conference XXIII. San Diego, CA, USA. January 1418, 2017.
6. **Yanghua He** and Jiuzhou Song. Epigenetic regulation in chicken germ stem cell differentiation. 30th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. June 3, 2016
7. Yi Ding, **Yanghua He**, Jose Carrillo, Huanming Zhang, Jiuzhou Song. Transcriptomic signatures of Marek’s disease in immune organs. Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015
8. Bo Han, **Yanghua He**, Yi Ding, Li Zhang, Ning Yang, Jiuzhou Song. Identification of LincRNAs and their modeling of knockdown systems associated with chicken Marek’s disease.

Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015

1. **Yanghua He**, Huanmin Zhang, Robert L. Taylor, Jr., and Jiuzhou Song. DNA methylation patterns associated with the resistance of Marek's disease. Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015
2. **Yanghua He**, Bichun Li, Jose Carrillo, Yaokun Li, Jiuzhou Song. The DNA methylation landscape and regulatory elements in chicken germ stem cells differentiation. 29th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 28. 2015
3. **Yanghua He**, Huanmin Zhang and Jiuzhou Song. Differential transcriptome analysis of CD4+ T cells of chickens induced by Marek’s disease virus challenge. International Plant & Animal Genome Conference XXIII. San Diego, CA, USA. January 10-14, 2015
4. Huanmin Zhang, Qingmei Xie, Shuang Chang, **Yanghua He**, Catherine W. Ernst, Jiuzhou Song. Vaccine Induced Differential Expressions of miRNAs at Cytolytic Stage in Chickens

Resistant or Susceptible to Marek’s Disease. International Plant & Animal Genome Conference XXIII. San Diego, CA, USA. January 10-14, 2015

1. **Yanghua He**, Minyan Song, Ying Yu. The regulatory effects of H3K27me3 on bovine mastitis susceptibility and resistance to *Staphylococcus aureus*. 34th International Society for Animal Genetics Conference. Xi'an, China. July 28-August 1, 2014.
2. **Yanghua He**, Yi Ding, Huanmin Zhang, Hans Cheng, Keji Zhao and Jiuzhou Song. LincRNA identification of Marek’s disease in CD4+ T cells. 10th International Symposium on Marek’s Disease and Avian Herpesviruses. East Lansing, MI. United States. July 20-23, 2014.
3. Huanmin Zhang, Qingmei Xie, Shuang Chang, **Yanghua He**, Catherine W. Ernst, Mohammad Heidari, Alexis Black-Pykosz, Jiuzhou Song. Differential Expression Profiling of miRNAs between Marek’s Disease Resistant and Susceptible Chickens. 10th International Symposium on Marek’s Disease and Avian Herpesviruses. East Lansing, MI. United States. July 20-23, 2014.
4. **Yanghua He**, Jose Carrillo, Juan Luo and Jiuzhou Song. Genome-wide mapping of DNase I hypersensitive sites and association analysis with gene expression in MSB1 cells. 28th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 29. 2014
5. Lingyang Xu, Juan Luo, **Yanghua He**, George Liu, Huanmin Zhang, Hans H Cheng, Jiuzhou Song. Genome-wide assessment genetic character of inbreed lines indicates selection of resistance to Marek’s disease. 28th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 29. 2014
6. **Yanghua He**, Jiuzhou Song. The Current and Future of Epigenetics of Marek’s Disease in Chickens. Proceedings of the 62nd Annual National Breeders Roundtable. St. Louis, Missouri. United States. May 2-3, 2013. Sponsored by: Poultry Breeders of America and U.S. Poultry & Egg Association.
7. **Yanghua He**, Ying Yu, and Yuan Zhang. H3K27me3 regulation in lymphocytes and the association with bovine subclinical mastitis. ISAG 33rd Conference, Cairns, Australia. 2012 July
8. **Yanghua He**, Ying Yu, Yuan Zhang. Genome-wide Modifications of Bovine H3K27me3 and Their Effects on Genes Expression in Peripheral Blood Lymphocytes. The 7th Annual Conference of Asian Epigenome Alliance Genome Medicine Workshop on Epigenetic(omic)s in Diseases. April 19-22, 2012. Shanghai China
9. **Yanghua He**, Ying Yu, Yuan Zhang, Yi Zhang, Yachun Wang, Dongxiao Sun, Shengli Zhang. To reveal genes related to *S. aureus* mastitis of bovine based on genome-wide expression profile. 16th national academic conference of animal science and technology. May 12-17, 2011. YangZhou, Jiangsu province. China.
10. **Yanghua He**, Qin Chu, Ying Yu and Yuan Zhang. Association of bovine *STAT5b* single nucleotide polymorphisms with somatic cell scores and milk production traits in Chinese Holsteins. 7th national academic conference of cattle science association of China Animal and Veterinary Society. October 15-18, 2009. Nanjing, Jiangsu province, China.
11. **Yanghua He**, Qin Chu, Ying Yu and Yuan Zhang. Association of bovine *CD4* single nucleotide polymorphisms with somatic cell scores and milk production traits in Chinese Holsteins. 15th national academic conference of animal science and technology. October 1013, 2009. Yangling, Shaanxi province, China.

## Conference Presentations and Posters

1. **Yanghua He**, *et. al.,* Epigenetic studies in Chicken Marek’s Disease. 31st Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 25, 2017
2. **Yanghua He**, *et. al.,* Differential expression profiles of miRNAs induced by vaccination followed by Marek’s disease virus challenge at cytolytic stage in chickens resistant or susceptible to Marek’s disease. In Proceedings of: International Conference of Plant and Animal Genome. San Diego, California. January 8-13, 2016
3. **Yanghua He**, *et. al.,* The conservation and signatures of lincRNAs in Marek’s disease of chicken. In Proceedings of: International Conference of Plant and Animal Genome. San Diego, California. January 8-13, 2016
4. **Yanghua He**, *et. al.,* Genome-wide assessment of inbred chicken lines indicates genomic segment in Marek’s Disease resistance. 35th Conference for the International Society of Animal Genetics. Salt Lake City, UT. 2016
5. **Yanghua He**, *et. al.,* Epigenetic regulation in chicken germ stem cell differentiation. 30th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. June 3, 2016
6. **Yanghua He**, *et. al.,* DNA methylation patterns associated with the resistance of Marek's disease. Poultry Science Association Annual Meeting. Louisville, Kentucky, United States. July 27-30, 2015
7. **Yanghua He**, *et. al.,* The DNA methylation landscape and regulatory elements in chicken germ stem cells differentiation. 29th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 28. 2015
8. **Yanghua He**, *et. al.,* LincRNA identification of Marek’s disease in CD4+ T cells. 10th International Symposium on Marek’s Disease and Avian Herpesviruses. East Lansing, MI. United States. July 20-23, 2014.
9. **Yanghua He**, *et. al.,* Genome-wide mapping of DNase I hypersensitive sites and association analysis with gene expression in MSB1 cells. 28th Annual Symposium of Department of Animal and Avian Sciences, University of Maryland, College Park, Maryland, United States. May 29. 2014
10. **Yanghua He**, *et. al.,* The study of genetic mechanisms in bovine mastitis. 16th national academic conference of animal science and technology. May 12-17, 2011. YangZhou, Jiangsu province. China.
11. **Yanghua He**, *et. al.,* Differential transcriptome analysis of CD4+ T cells of chickens induced by Marek’s disease virus challenge. International Plant & Animal Genome Conference XXIII. San Diego, CA, USA. January 10-14, 2015
12. **Yanghua He**, *et. al.,* Genome-wide Modifications of Bovine H3K27me3 and Their Effects on Genes Expression in Peripheral Blood Lymphocytes. The 7th Annual Conference of Asian

Epigenome Alliance Genome Medicine Workshop on Epigenetics(-omics) in Diseases. April 19-22, 2012. Shanghai China.

1. **Yanghua He**, *et. al.,* The Polymorphisms in Bovine *CD4* and *STAT5b* are Associated with SCS and Milk Production Traits in Chinese Holsteins. 15th national academic conference of animal science and technology. October 10-13, 2009. Yangling, Shaanxi province, China.

## Invited Presentations

**2018 Yanghua He,** Invited Conference Presentation for the Epigenetics Workshop. The title of the talk: Functional Epigenetics in Erythropoiesis. Genome San Diego 2018. San Diego, CA, USA.

## Media Appearances

**2020 Yanghua He** *et. al.,* **UNIVERSITY of HAWAI’I NEWS,** Outstanding article on *Nature Biotechnology* as a co-author “Genome editing for children’s diseases could boost agricultural production” with the link: https://www.hawaii.edu/news/2020/06/26/changeseq-target-gene-editing/

**2018** Jiuzhou Song, **Yanghua He**, *et. al.,* **MARYLAND FARM & HARVEST TV**. "The study of genetic variations in Angus populations shows their diversity in performace". Interviewed regaring genetic studies in Angus beef cattle. The link: https://video.mpt.tv/video/episode-605-tuerqo/ and the segment begins at 18:10 and ends at 19:10. December 11, 2018

**2018** **Yanghua He** *et. al.,* **CISION PRWeb News**, "UMD Researcher Discovers Mechanisms and Epigenetic Markers with Implications for Diseases Ranging from Cancers to Infertility" with the link: http://www.prweb.com/releases/2018/05/prweb15452301.htm

## Funded Grants

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Date** | **Title** | **Role** | **Agency** | | | **Amount ($)** |
| 08/2019-08/2021 | Start-up funds | PI | UH CTAHR | | | $100,000 |
| 08/2019-08/2022 | Start-up funds | PI | UH OVCR | | | $50,000 |
|  | Beef team science project | PI | UH CTAHR | | | $8,000 |
| NanoString Research Grant | PI | NanoString  Technologies, Inc. | | | $3,000 |
|  | **TEACH** | **ING** |  |  |  | |
| **Courses Taught**  ***University of Hawai’i at Manoa*** | | | |  |  | |
| **Course Number Course Title** | | | | **Credits** | **Term Offered** | |
| ANSC 200 Humans, Animals &  Agriculture | | | | 3 credits | Fall semester | |
| ANSC 201 Principal & Practice of  Animal Science II | | | | 3 credits | Spring semester | |
| ANSC 445 Genetics and Animal  Breeding | | | | 3 credits | Spring semester | |
| ANSC/FSHN/MBBE 650 DNA and Genetic Analysis | | | | 2 credits | Fall semester | |

## Invited Lectures

**2019 Yanghua He**, Invited lecture and discussion on “Careers in Animal Genetics” for course ANSC 200 class (Humans, Animals and Agriculture). Instructor: Danita Dahl, University of Hawaii at Manoa, HI, USA

**2019 Yanghua He**, Invited lecture and discussion on “Epigenetics and Obesity” for course FSHN 488 class (Obesity: Science and Issues). Instructor: Carolyn Donohoe-Mather, MAS,

RDN, IBCLC, University of Hawaii at Manoa, HI, USA

**2019 Yanghua He**, Invited lecture and discussion on “Nutritional Epigenetics” for course ANSC/FSHN 601 class (Introduction to Food Systems). Instructor: Danita Dahl, University of Hawaii at Manoa, HI, USA

**2019 Yanghua He**, Invited lecture and discussion on “Epigenetic Therapeutics: A New Weapon in Metabolic Diseases” for course ANSC641/FSHN681 class (HNFAS graduate seminar). Instructor: Halina Zaleski, Ph.D., University of Hawaii at Manoa, HI, USA

**2019 Yanghua He**, Invited lecture and discussion on “Epigenetics and Nutritional Diseases” for course FSHN 685 class (Nutrition and Disease: Cellular and Molecular Aspects). Instructor:

C. Alan Titchenal, PhD, CNS, University of Hawaii at Manoa, HI, USA

**2017 Yanghua He**, as a teaching assistant to teach the part 2 of Module 1: Chromatin,

Epigenetics, and noncoding RNA; Graduate school, St. Jude Children's Research Hospital

**2016 Yanghua He**, Invited lecture on *Epigenetic Data Analysis* for graduate students in the class of *BIOM688 Statistic Genomics*. Instructor: Prof. Jiuzhou Song, University of Maryland, College Park, MD, USA

**2015 Yanghua He**, Teaching assistant for undergraduate course, one chapter of *ANSC435 Experimental embryology* with Prof. Carol L. Keefer, University of Maryland, USA

**2009 Yanghua He**, Teaching assistant for undergraduate course, *Animal Genetics and breeding* with Prof. Yuan Zhang, China Agricultural University, China

**2008 Yanghua He**, Teaching assistant for undergraduate course, *Biostatistics* with Prof. Yachun Wang, China Agricultural University, China

## Advanced Courses attended

**2017** *‘Mixed Model Methods for Genomic Selection’* lectured by Prof. Yang Da from the University of Minnesota. Organized by the University of Maryland, USA.

**2015** *‘Bayesian GLMs for genetic association studies and a series of lectures’* lectured by Prof. Nengjun Yi from the University of Alabama at Birmingham. Organized by the University of Maryland, USA.

**2011** *‘Implement of Genomic selection and Genomic data analysis’* lectured by Prof. Henner Simianer from Georg-August-University Goettingen. Organized by China Agricultural University, Beijing, China.

## Current Student Advisement

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| ***Student*** | ***Year*** | ***Level, Program*** |  | ***Role*** | ***Status*** |
| Mandeep Adhikari | 2020 - present | PhD student, MBBE |  | Advisor | In progress |
| Huong Thanh Vu | 2019 - present | Master student, MBBE |  | Advisor | In progress |
| Irene Liang | 2019 - present | Undergraduate for internship, ANSC | the | Advisor | In progress |
| Emily Conklin | 2020 - present | PhD student, Biology |  | Committee | Preliminary committee |
| Donna Lee  (Sweetie) Kuehu | 2019 - present | PhD student, MBBE |  | Committee | Preliminary committee |

# PROFESSIONAL SERVICE

## Service to the Profession

**2020 – present** Guest Editor for a Special Issue "Climate Change and Animal Genetics and Breeding" for the Journal *Animals* (ISSN 2076-2615)

**2020 – present** Guest Editor for a Special Issue "integrative omics analysis" for the Journal *Frontiers in Genetics*

**2020 – present** Editorial Board for *Journal of Genome Research and Genetic Therapies*

**2019 – present** Editorial Board for *Annals of Carcinogenesis*

**2019 – present** Editorial Board for *Neurophysiology and Rehabilitation journal*

**2018 – present** Editorial Board for *Current Genomics* (IF 2.342)

**2017 – present** Editorial Board for *The Scientific Pages of Bioinformatics*

**2017 – present** Editorial Board for *Journal of Bacteriology and Vaccine Research*

**2017 – present** Editorial Board for *Virology & Retrovirology Journal*

**2016 – present** Editorial Board for *SM Journal of Family Medicine*

**2016 – present** Editorial Board for *Austin Immunology*

**2016 – present** Editorial/reviewer Board for *Scientific Pages of Immunology*

**2016 – present** Editorial Board for *Insights in Genetics and Genomics*

**2016 – present** Editorial Board for *The Scientific Pages of Health Care*

**2016 – present** Editorial/Reviewer Board for *Scientific Pages of Agricultural Technologies*

**2020 – present** Reviewer for *Functional & Integrative Genomics (IF 3.19)*

**2019 – present** Reviewer for *Frontier in Genetics (IF 3.789)*

**2019 – present** Reviewer for *Microbial Pathogenesis (IF 2.581)*

**2019 – present** Reviewer for *Veterinary Research (IF 1.792)*

**2018 – present** Reviewer for *Poultry Science (IF 2.216)*

**2017 – present** Reviewer for *Oncotarget (IF 5.008)*

**2017 – present** Reviewer for *Scientific Reports (IF 4.259)*

**2017 – present** Reviewer for *Gene (IF 2.319)*

**2017 – present** Reviewer for *BMC Genetics (IF 2.266)*

**2017 – present** Reviewer for *Research in Veterinary Science (IF 1.46)*

**2016 – present** Reviewer for *Electronic Journal of Biotechnology (IF 2.894)*

**2016 – present** Reviewer for *PeerJ (IF 2.183)*

**2018 – present** Member of The Epigenetics Society

**2017 – present** Member of *AAAS/Science Program*

**2020, Summer** **Grant Reviewer** for The Agence Nationale De La Recherche (ANR) 2020 generic call of the National Research Agency, France

## Service to the University

***University of Hawai’i at Manoa***

|  |  |  |
| --- | --- | --- |
| ***Year*** | ***Role*** | ***Agency*** |
| 07/2020 – 07/2021 | FACULTY SENATE | College of Tropical Agriculture and Human Resources |
| 08/2019 - present | Research Committee panel | Department of Human Nutrition, Food and Animal Sciences |

Kacie K.H.Y. Ho

**College of Tropical Agriculture and Human Resources**

**Department of Human Nutrition, Food and Animal Sciences** FTE Distribution: 60% I; 40% R; 0% E

# Education

**Degree University Major**

PhD Purdue University Food Science- Specialization in

Processing and Technology

Bachelors University of Hawaii at Manoa Food Science

# Professional Appointments

**Title Employer Dates Employed**

Assistant Professor University of Hawaii 2018-Present

Postdoctoral Research Scholar North Carolina State University. 2017-2018

Postdoctoral Teaching Scholar Wageningen University 2017-2017 Visiting Research Scientist Wageningen University. 2015-2016

# Courses Taught

Course Number and Title (credits)

FSHN 381 Experimental Foods (3)

FSHN 381L Experimental Foods Laboratory (1)

FSHN 445 Food Quality Control (3)

FSHN 494 Food Science Capstone (3)

FSHN 607 Advanced Food Science I (3)

# Publications (reverse chronological order)

Book Chapters

Schröder, Anja, Corstens, Meinou N., Ho, Kacie K.H.Y., Schroën, Karin, & Berton‐Carabin, Claire C. (2018). Pickering Emulsions. *Emulsion‐based Systems for Delivery of Food Active Compounds: Formation, Application, Health and Safety*, 29-67.

Refereed Journal Publications

Ho, Kacie K.H.Y., Redan, Benjamin W. (2020). Impact of thermal processing on the nutrients, phytochemicals, and metal contaminants in edible algae. *Critical Reviews in Food Science and Nutrition,* 1-19.

https://doi.org/10.1080/10408398.2020.1821598

Ho, Kacie K.H.Y., Ferruzzi, Mario G., Wightman, JoLynne. (2020). Potential health benefits of (poly)phenols derived from fruit and 100% fruit juice. *Nutrition Reviews*, 78(2), 145-174. https://doi.org/10.1093/nutrit/nuz041

Li, Min, Ho, Kacie K.H.Y., Hayes, Micaela, & Ferruzzi, Mario G. (2019) The roles of food processing in translation of dietary guidance for whole grains, fruits, and vegetables. *Annual Review of Food Science and Technology*, 10, 569-596. https://doi.org/10.1146/annurev-food-032818-121330

Ho, Kacie K.H.Y., Haufe, Thomas C., Ferruzzi, Mario G., Neilson, Andrew P. (2018). Production and polyphenolic composition of tea. *Nutrition Today,* 53(6), 268-278. https://doi.org/10.1097/NT.0000000000000304

Haufe, Thomas C., Ho, Kacie K.H.Y., Ferruzzi, Mario G., & Neilson, Andrew P. (2018). Potential Health Effects of Tea. *Nutrition Today*, *53*(5), 213-228. https://doi.org/10.1097/NT.0000000000000294

Ho, Kacie K.H.Y., Schroën, Karin, San Martín-Gonzalez, M. Fernanda, Berton-Carabin, Claire C. (2018).

Synergistic and antagonistic effects of plant and dairy protein blends on the physicochemical stability of lycopene-loaded emulsions. *Food Hydrocolloids. https://doi.org/10.1016/j.foodhyd.2018.02.033*

Ho, Kacie K.H.Y., Schroën, Karin, San Martín-Gonzalez, M. Fernanda, Berton-Carabin, Claire C. (2016).

Physicochemical stability of lycopene-loaded emulsions stabilized by plant or dairy proteins. *Food Structure*,

*12,* 34-42. http://dx.doi.org/10.1016/j.foostr.2016.12.001

Ho, Kacie K.H.Y., Ferruzzi, Mario G., Liceaga, Andrea M., San Martin-Gonzalez, M. Fernanda. (2015).

Microwave-assisted extraction of lycopene in tomato peels: effect of extraction conditions on all-*trans* and *cis*- isomer yields. *LWT-Food Science and Technology, 62*(1), 160-168. http://dx.doi.org/10.1016/j.lwt.2014.12.061

Leadership Roles (Committees, Boards, Advisory, etc.)

Secretary-Treasurer. 2018-Present. American Oil Chemists’ Society Health & Nutrition Division.

Newsletter Editor. 2018-Present. American Oil Chemists’ Society Health & Nutrition Division.

Treasurer. 2019-Present. Institute of Food Technologists-Hawaii Section.

Committee Member. 2019-Present. HNFAS Space Committee.

Committee Member. 2019-Present. HNFAS Research and Extension Committee.

Committee Member. 2019-Present. CTAHR Research Day Committee.

Committee Member. 2019-Present. Board of Reagents Willard Wilson Award Committee.

Committee Member. 2019. CTAHR Student Research Symposium Committee.

Review Board Member. 2013-2016. Institute of Food Technologists Higher Education Review Board.

# Graduate Students

Category Current Number of Students Number Graduated (Career)

*Chair* of Master’s Committees 2 0

*Chair* of PhD Committees 0 0

Member of Master’s Committees 2 2

Member of PhD Committees 0 1

# Grant Support

Title of Grant: Postharvest technology and nutrition studies for Hawaii specialty crops and fruits

Source of Grant: USDA-ARS

Total Dollar Value (Your share of the grant value): $150,000 ($60,000)

Dates of Grant: 10/18-09/23

Role (PI, CoPI): PI

Title of Grant: Optimizing local food nutrient density through agriculture and food processing practices and enhancing public awareness on nutrient value in local food

Source of Grant: CTAHR Team Science

Total Dollar Value (Your share of the grant value): $36,618 ($19,627)

Dates of Grant: 10/19-09/21

Role (PI, CoPI): CoPI

Title of Grant: Nanobubble technology applications in aquaculture, aquaponics, hydroponics, environment, food and food safety

Source of Grant: CTAHR Team Science

Total Dollar Value (Your share of the grant value): $80,000

Dates of Grant: 10/19-09/21

Role (PI, CoPI): CoPI

Title of Grant: Optimizing local food nutrient density through agriculture and food processing practices and enhancing public awareness on nutrient value in local food

Source of Grant: CTAHR Team Science

Total Dollar Value (Your share of the grant value): $36,618 ($19,627)

Dates of Grant: 10/19-09/21

Role (PI, CoPI): CoPI

Title of Grant: Enhancing local pork marketing for Oahu hog producers

Source of Grant: Hawaii Department of Agriculture

Total Dollar Value (Your share of the grant value): $66,000

Dates of Grant: 11/20-08/21

Role (PI, CoPI): PI

Title of Grant: Electric and magnetic field-based supercooling technology to ensure the freshness in the food supply chain

Source of Grant: USDA-NIFA-AFRI

Total Dollar Value (Your share of the grant value): $500,000

Dates of Grant: 01/21-12/23

Role (PI, CoPI): CoPI

Rajesh Jha

**College of Tropical Agriculture and Human Resources**

Human Nutrition, Food and Animal Sciences

FTE Distribution: 50% I; 40% R; 10% E

**Education**

|  |  |  |
| --- | --- | --- |
| **Degree** | **University** | **Major** |
| B.V. Sc & A. H. | Tribhuvan University, Nepal | Veterinary Science |
| M. Sc. | Wageningen University, the Netherlands | Livestock and Food Sector |
| Ph. D. | University of Saskatchewan, Canada | Animal Nutrition |

**Professional Appointments**

|  |  |  |
| --- | --- | --- |
| **Title** | **Employer** | **Dates Employed** |
| Associate Professor of Animal Nutrition | University of Hawaii at Manoa | 2017 to date |
| Visiting Professor | Kyoto University, Japan | 2019 (summer) |
| Assistant Professor of Animal Nutrition | University of Hawaii at Manoa | 2012 to 2017 |
| Research Associate | University of Alberta, Canada | 2009 to 2012 |
| Graduate Research Assistant | Prairie Swine Center/ University of Saskatchewan, Canada | 2006 to 2009 |
| Livestock Expert (Concurrent position) | WIN project / Food and Agriculture Organization (FAO), Nepal | 2001-2003 |
| Livestock Development Officer | Dept. of Livestock Services, Govt. of Nepal | 1997- 2004 |
| Technical Officer | Pakhribas Agriculture Centre, Nepal | 1997 |

**Courses Taught**

Course Number and Title (credits)

ANSC 244 / FSHN 244: Comparative Nutrition (3 cr)

ANSC 321: Applied Animal Nutrition (3 cr)

ANSC 642: Advanced Animal Nutrition (3 cr)

FSHN 682: Topics in Nutritional Sciences – Monogastric Nutrition and Gut Health (3 cr)

**Publications (reverse chronological order)**

Books

1. Parent-offspring Integration: Gut Health and Physiological Functions of Animals. Co-editors: X. Kong and **R. Jha**. Frontiers in Veterinary Science. ([*In progress*](https://www.frontiersin.org/research-topics/15032/parent-offspring-integration-gut-health-and-physiological-functions-of-animals))
2. Nutritional Intervention for the Intestinal Health of Young Monogastric Animals. Co-editors: S. W. Kim and **R. Jha**. Frontiers in Veterinary Science. ([*In progress*](https://www.frontiersin.org/research-topics/7568/nutritional-intervention-for-the-intestinal-health-of-young-monogastric-animals))

Book Chapters (\*corresponding author, underlined authors are my mentees)

1. **R. Jha**\*, A. K. Singh, S. Yadav, J. F. D. Berrocoso, and B. Mishra (2019). Early nutrition programming (in ovo- and post hatch-feeding) as a strategy to modulate gut health of poultry. In: S. W. Kim and **R. Jha** (Eds.), Nutritional Intervention for the Intestinal Health of Young Monogastric Animals. Frontiers in Veterinary Science (*doi:10.3389/fvets.2019.00082*). [[PDF]](https://www.frontiersin.org/articles/10.3389/fvets.2019.00082/full)**.**
2. B. Mishra\* and **R. Jha** (2019). Oxidative stress in poultry gut: Potential challenges and intervention. In: Co-Eds: S. W. Kim, and **R. Jha.** In: S. W. Kim and **R. Jha** (Eds.), Nutritional Intervention for the Intestinal Health of Young Monogastric Animals. Frontiers in Veterinary Science, 6:60 (doi:10.3389/fvets.2019.00060). [[PDF]](https://www.frontiersin.org/articles/10.3389/fvets.2019.00060/full)**.**
3. **R. Jha**\*, J. M. Fouhse, U. P. Tiwari, L. Li, and B. P. Willing (2019). Dietary fibers and intestinal health of monogastric animals. In: S. W. Kim, and **R. Jha** (Eds.), Nutritional Intervention for the Intestinal Health of Young Monogastric Animals. Frontiers in Veterinary Science, 6:48 (doi:10.3389/fvets.2019.00048). [[PDF]](https://www.frontiersin.org/articles/10.3389/fvets.2019.00048/full)**.**
4. P. J. Moughan, W. Miner-Williams, and **R. Jha** (2018). Protein digestion- amino acid digestibility. In: P. J. Moughan, and W. Hendriks (Eds.), Feed Evaluation Science. Wageningen Academic Publishers, the Netherlands, pp. 173-217. [[PDF]](http://www.wageningenacademic.com/doi/book/10.3920/978-90-8686-854-4).

Conference Proceedings (\*corresponding author, underlined authors are my mentees)

1. **R. Jha**\* and U. P. Tiwari (2016). Rapid techniques in feed evaluation: Scope and limitations. **Proceedings of New Zealand Poultry Industry Conference, Vol 13** (Oct 4-5, 2016), Wellington (Editors, M. R. Abdollahi and V. Ravindran). Published by the Monogastric Research Centre, Massey University, Palmerston North, New Zealand. pp. 84-102.
2. Y. S. Kim\*, G. Fukumoto, M. Stevenson, M. Thorne, and **R. Jha** (2016). Carcass traits and tenderness of grass-fed beef from subtropical pastures in Hawaii. **Proceedings of 17th AAAP Animal Science Congress** (Aug 22-25, 2016), Fukuoka, Japan. pp. 1525-1529.
3. U. P. Tiwari, and **R. Jha\*** (2015). Nutrient profile and in vitro digestibility of fresh and ensiled cassava in swine. **Proceedings of 3rd International Seminar on Animal Industry** (Sept 17-18, 2015), Bogor, Indonesia. pp. 248-249.
4. R. T. Zijlstra\*, and **R. Jha** (2012). Novel swine feeding programs to enhance competitiveness and pork differentiation: Feedstuffs and Carbohydrates. **Advances in Pork Production,** 23:227-232.
5. R. T. Zijlstra\*, P. Regmi, L. Wang, and **R. Jha** (2011) In vitro techniques to describe energy digestibility and kinetics of carbohydrate degradation of feedstuffs in pigs. **Computerized Journal of Pig Production**, 18 (3):174-176.
6. R. T. Zijlstra\*, M. Swift, L. Wang, P. Regmi, J. H. Helm, and **R. Jha** (2010). Rapid methods for prediction of energy values of feedstuffs for pigs. **Proceedings of Western Nutrition Conference** (Sept 21-23, 2010), Saskatoon, SK, Canada. pp. 235-242.
7. **R. Jha\***, B. Pakhrin, and R. P. Thakur (1997). Reproductive problems in pigs in the eastern hills of Nepal. **Proceedings of Second National Workshop on Livestock and Fisheries Research** (Sept 24-25, 1997), Lalitpur, Nepal. pp. 11-17.
8. I. P. Dhakal\*, **R. Jha**, and H. B. Basnet (1996). Common diseases of livestock at Pathivara VDC of Sankhuwasava. **Bulletin of Veterinary Science and Animal Husbandry Nepal**,24:95-99.

Refereed Journal Publications (\*corresponding author, underlined authors are my mentees)

1. W. C. Liu, Y. Guo, Z. H. Zhao, and **R. Jha**\*, and B. Balasubramanian\* (2020)**.** Algae-derived polysaccharides promotes growth performance by improving antioxidant capacity and intestinal barrier function in broiler chickens. **Frontiers in Veterinary Science**, 7:601336. [[PDF]](https://doi.org/10.3389/fvets.2020.601336)
2. **R. Jha**\*, R. Das, S. Oak, and P. Mishra (2020). Probiotics (Direct-fed microbials) in poultry nutrition and their effects on nutrient utilization, growth and laying performance, and gut health: A systematic review. **Animals**, 10(10):1863. [[PDF]](https://www.mdpi.com/2076-2615/10/10/1863)
3. J. Zhang, K. Cai, R. Mishra, and **R. Jha**\* (2020). In ovo supplementation of chitooligosaccharide and chlorella polysaccharide affect cecal microbial community, metabolic pathways, and fermentation metabolites in broiler chickens. **Poultry Science**, 99:4476-4785. [[PDF]](https://www.sciencedirect.com/science/article/pii/S0032579120304442)
4. H. T. Nhan\*, T. Q. Nhu, P. M. Duc, L. H. Jung, H. Ako, and **R. Jha** (2020). Effects of dietary arachidonic acid on final maturation, spawning, and composition of gonad of black sea urchin *Diadema setosum* (Leske, 1778). **Aquaculture Nutrition**, 26:1771–1779. [[PDF]](https://onlinelibrary.wiley.com/doi/abs/10.1111/anu.13127)
5. U. P. Tiwari, S. A. Fleming, M. S. A. Rasheed, **R. Jha**, and R. N. Dilger\* (2020). The role of oligosaccharides and polysaccharides of xylan and mannan in gut health of monogastric animals. **Journal of Nutritional Science**, 9 (e21):1-9. [[PDF]](https://www.cambridge.org/core/journals/journal-of-nutritional-science/article/role-of-oligosaccharides-and-polysaccharides-of-xylan-and-mannan-in-gut-health-of-monogastric-animals/C34C77F8710718A5455DA009E2BDBC8E)
6. S. Wasti, N. Sah, D. L. Kuehu, Y. S. Kim, **R. Jha**, and B. Mishra\* (2020). Expression of follistatin is associated with egg formation in the oviduct of laying hens. Animal Science Journal, e13396:1-8. [[PDF]](https://onlinelibrary.wiley.com/doi/10.1111/asj.13396)
7. C. Li, Z. Niu, M. Zou, S. Liu, M. Wang, X. Gu, H. Lu, H. Tian\*, and **R. Jha**\* (2020). Probiotics, prebiotics, and synbiotics regulate the intestinal microbiota differentially and restore the relative abundance of specific gut microorganisms. **Journal of Dairy Science**, 103:5816–5829. [[PDF]](https://www.journalofdairyscience.org/article/S0022-0302(20)30371-4/pdf)
8. P. Adhikari\*, A. Kiess, R. Adhikari, and **R. Jha** (2020). Nutritional strategies to control avian coccidiosis and necrotic enteritis: A focus on intestinal health. The Journal of Applied Poultry Research,29:515-534. [[PDF]](https://www.sciencedirect.com/science/article/pii/S105661711932241X)
9. A. Needham, **R. Jha**, and N. K. Lincoln\* (2020). The Response of Breadfruit Nutrition to Local Climate and Soil: A Review. **Journal of Food Composition and Analysis**, 88:103451. [[PDF]](https://www.sciencedirect.com/science/article/pii/S0889157519309664)
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Extension Publications

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Abstract (underlined authors are my mentees)

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20. U. P. Tiwari, and **R. Jha** (2018). Fermentation characteristics of xylo- and manno-oligosaccharides and soluble and insoluble arabinoxylan studied using an in vitro model of swine. **Journal of Animal Science, 96 (Suppl. 3):309** (Abstract # 474547).
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22. B. A. Castle, J. Odani, **R. Jha**, N. Ogasawara, and H. M. Zaleski (2018). Survey of disease, management and biosecurity practices of Hawaii swine farmers. **Journal of Animal Science, 96 (Suppl. 3):53-54** (Abstract # 473800).
23. A. MacDonald, and **R. Jha**. 2018. Evaluation of cassava chips as an alternative feed ingredient in hybrid tilapia (*Oreochromis niloticus* × *O. mossambicus*) aquaculture from gut health perspective. **Proceedings of the International Symposium on Fish Nutrition and Feeding conference** (June 3-7, 2018), Las Palmas de Gran Canaria, Spain.
24. A. K. Singh, R. Kida, M. Bedford, and **R. Jha** (2017). Effect of xylanase on growth performance and cecal short-chain fatty acid production in broilers fed different levels of fiber. **Poultry Science, 96 (E-suppl. 1):160** (abstract # 435P).
25. S. Yadav, and **R. Jha** (2017). Cassava chips as an alternative feedstuff for broiler chickens: effect on growth performance and ileal morphology. **Poultry Science, 96 (E-suppl. 1):180** (abstract # 492P).
26. S. Yadav, K. Neupane, and **R. Jha** (2017). Macadamia nut cake as an alternative feedstuff for broiler chickens: effect on growth performance and gut microbiota profile. **Poultry Science, 96 (E-suppl. 1):186** (abstract # 509P).
27. U. P. Tiwari, and **R. Jha** (2017). Supplementation of xylanase and mannanase influences in vitro fermentation characteristics of distiller’s dried grain with solubles in the large intestine of swine. **Journal of Animal Science, 95 (Suppl. 4):196** (Abstract # 398).
28. J. D. Berrocoso, A. K. Singh, and **R. Jha** (2016). Effect of macadamia nut cake inclusion on growth performance of pasture raised broiler chickens. **Proceedings of the World’s Poultry Congress (Sept 5-9, 2016), Beijing, China. pp. 179** (Abstract # S1-0411).
29. S. Yadav, J. D. Berrocoso, and **R. Jha** (2016). Nitrogen-corrected apparent metabolizable energy value of macadamia nut cake for broiler chickens. **Poultry Science, 95 (E-suppl. 1):131** (Abstract # 384P).
30. A. K. Singh, J. D. Berrocoso, R. Kida, Y. S. Kim, and **R. Jha** (2016). In ovo inoculation of raffinose improves hatchability, vitalizes gut mucosa and enhances immune response in broiler chickens. **Poultry Science, 95 (E-suppl. 1):4** (Abstract # 11).
31. U. P. Tiwari, and **R. Jha** (2016). Nutrient profile and in vitro digestibility of cassava silages in swine. **Journal of Animal Science, 94 (Suppl. 5):467** (Abstract # 992).
32. U. P. Tiwari, H. Chen, S. W. Kim, and **R. Jha** (2016). Effect of supplemental enzyme on growth performance, digesta viscosity, apparent total tract digestibility of nutrients in nursery pigs. **Journal of Animal Science, 94 (Suppl. 5):441** (Abstract # 933).
33. U. P. Tiwari, M. Mattus, K. Neupane, and **R. Jha** (2016). In vitro fermentation characteristics of agricultural products and coproducts and its effect on the large intestinal microbiota of swine. **Journal of Animal Science, 94 (Suppl. 5):211** (Abstract # 450).
34. C. Liu, A. K. Singh, M. Stewart, J. H. Uyehara-Lock and **R. Jha** (2016). Effects of dietary fibers on obesity related physiological parameters in C57BL/6 mice. **Journal of Animal Science, 94 (Suppl. 5):209** (Abstract # 444).
35. B. S. McNeill, J. Odani, **R. Jha**, and H. M. Zaleski (2016). Prevalence of Brucella suis in hunting dogs in Hawai`i. **Journal of Animal Science, 94 (Suppl. 5):79** (Abstract # 168).
36. A. M. Haygood, and **R. Jha** (2016). Evaluation of moringaleaves as a prebiotic in tilapia aquaculture from a production and health perspective. **Proceedings of The International Symposium on Fish Nutrition and Feeding** (June 5-10, 2016), Sun Valley, ID USA.
37. U. P. Tiwari, and **R. Jha** (2015). Nutrient profile and in vitro digestibility of fresh and ensiled cassava in swine. **Proceedings of 3rd International Seminar on Animal Industry** (Sept 17-18, 2015), Bogor, Indonesia. **pp 44.**
38. A. K. Singh, J. D. Berrocoso, Y. Dersjant-Li, A. Awati, and **R. Jha** (2015). Effect of supplemental multi-enzymes and direct fed microbial on nutrients digestibility in broilers fed low and high fiber diets. **Poultry Science, 94 (E-suppl. 1):9** (Abstract #22).
39. A. K. Singh, J. D. Berrocoso, U. P. Tiwari, Y. Dersjant-Li, A. Awati, and **R. Jha** (2015). Effect of supplemental multi-enzymes on growth performance of broilers fed low and high fiber diets. **Poultry Science, 94 (E-suppl. 1):129** (Abstract #386P).
40. U. P. Tiwari and **R. Jha** (2015). Nutrient profile and digestibility of macadamia nut cake as determined using an in vitro model of swine. **Journal of Animal Science, 93 (Suppl. 3):592** (Abstract # 576).
41. U. P. Tiwari, H. M. Zaleski, and **R. Jha** (2015). Nutrient profile and digestibility of agro-industrial coproducts as determined using an in vitro model of swine. **Journal of Animal Science, 93 (Suppl. 3):591** (Abstract # 571).
42. U. P. Tiwari, B. Turano, and **R. Jha** (2014). Nutritional characteristics and in vitro digestibility by near-infrared spectroscopy of local and hybrid napiergrass varieties grown in rain-fed and irrigated conditions. **Proceedings of the Joint ISNH/ISRP International Conference** (Sept 8-12, 2014), Canberra, Australia.
43. T. A. Woyengo, **R. Jha**, E. Beltranena, and R. T. Zijlstra (2014). In vitro digestion and fermentation characteristics and in vivo digestibility of canola co-products in the pigs. **Journal of Animal Science, 92 (E-Suppl. 2):233-234** (Abstract # 470).
44. U. P. Tiwari, A. K. Singh, H. M. Zaleski, and **R. Jha** (2014). Nutrient profile and in vitro digestibility of tubers in swine. **Journal of Animal Science, 92 (E-Suppl. 2):225** (Abstract # 449).
45. **R. Jha**, L. F. Wang, P. R. Regmi, A. Pharazyn, and R. T. Zijlstra (2013). Nutrient profile and in vitro vs. in vivo energy digestibility of legumes in growing pigs. **Journal of Animal Science, 91 (E-Suppl. 2):676** (Abstract # 697).
46. **R. Jha**, P. R. Regmi, L. F. Wang, A. Pharazyn, and R. T. Zijlstra (2013). Nutrient profile and in vitro vs. in vivo energy digestibility of wheat co-products from flour milling in growing pigs. **Journal of Animal Science, 91 (E-Suppl. 2):676** (Abstract # 696).
47. T. A. Woyengo, **R. Jha**, E. Beltranena, and R. T. Zijlstra (2013). In vitro degradation and fermentation characteristics of expeller-pressed canola meal and cold-pressed canola cake simulating the pig intestine. **Journal of Animal Science, 91 (E-Suppl. 2):634** (Abstract # 585).
48. T. A. Woyengo, **R. Jha**, E. Beltranena, A. Pharazyn, and R. T. Zijlstra (2013). Nutritional value of lentil and micronized full-fat soybean fed to growing pigs. **Journal of Animal Science, 91 (E-Suppl. 2):26** (Abstract # 80).
49. **R. Jha**, P. Regmi, L. Wang, A. Pharazyn, and R. T. Zijlstra (2013). Nutrient profile and energy digestibility of wheat co-products from flour milling differ in growing pigs. **Advances in Pork Production, 24** (Abstract # 29).
50. T. A. Woyengo, **R. Jha**, E. Beltranena, A. Pharazyn, and R. T. Zijlstra (2013). Nutritional value of lentil and micronized full-fat soybean fed to growing-finishing pigs. **Advances in Pork Production, 24** (Abstract # 21).
51. **R. Jha**, P. Leterme, A. G. Van Kessel, and R. T. Zijlstra (2012). Fermentation characteristics of fibers in the matrix of cereals (barley and oats) or isolated from cereals in the pig intestine. **Proceedings of Canadian Barley Symposium** (July 8 - 10, 2012), Calgary, AB, Canada. **pp.** **17**.
52. **R. Jha**, J. Li, M. R. Bedford, C. R. Christensen, T. Vasanthan, and R. T. Zijlstra (2012). Microscopic matrix and in vitro pig model fermentation of wheat and corn distillers dried grains with solubles with supplemental carbohydrases and protease. Abstract for 12th **International Symposium on Digestive Physiology of Pigs** (May 29 - Jun 1, 2012), Keystone, CO, USA (Abstract # 1122).
53. **R. Jha**, A. Owusu-Asiedu, P. H. Simmins, A. Pharazyn, and R. T. Zijlstra (2012). Microscopic matrix and in vitro degradation and fermentation characteristics of wheat co-products from flour milling in the pig intestine. Abstract for 12th **International Symposium on Digestive Physiology of Pigs** (May 29 - Jun 1, 2012), Keystone, CO, USA (Abstract # 1082).
54. R. T. Zijlstra, **R. Jha**, A. D. Woodward, J. Fouhse, and T. A. T. G. van Kempen. 2012. Starch and fiber properties affect their kinetics of digestion and thereby digestive physiology in pigs. Abstract for 12th **International Symposium on Digestive Physiology of Pigs** (May 29 - Jun 1, 2012), Keystone, CO, USA (Abstract # 1036).
55. **R. Jha**, J. Li, M. R. Bedford, C. R. Christensen, T. Vasanthan, and R. T. Zijlstra (2012). In vitro fermentation and microscopic matrix of distillers dried grains with solubles following enzyme treatment. **Journal of Animal Science, 90 (E-Suppl. 2):51** (Abstract # 130).
56. **R. Jha**, J. Li, M. R. Bedford, C. R. Christensen, T. Vasanthan, and R. T. Zijlstra (2012). Enzymes enhance degradation of DDGS, revealed by in vitro gas production and microscopic examination. **Advances in Pork Production, 23** (Abstract # 26).
57. **R. Jha** and R. T. Zijlstra (2011). Evaluation of fermentation characteristics and volatile fatty acids production of unique fiber and starch sources using an in vitro model of the pig large intestine. **Journal of Animal Science, 89 (E- Suppl. 2):129** (Abstract # 251).
58. **R. Jha**, J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra (2011). Dietary co-products enhance pork omega-3 fatty acid and reduce feed costs without affecting carcass quality and growth. **Advances in Pork Production, 22** (Abstract # 27).
59. **R. Jha**, J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra (2011). Effects of dietary crude protein and co-product level on growth performance and carcass quality of grower-finisher pigs. **Advances in Pork Production, 22** (Abstract # 26).
60. **R. Jha**, D. N. Overend, P. H. Simmins, D. Hickling, and R. T. Zijlstra (2011). Effect of Canadian wheat classes on growth performance and energy digestibility in weaned pigs fed in pelleted diets. **Advances in Pork Production, 22** (Abstract # 18).
61. **R. Jha** and R. T. Zijlstra (2011). Fermentation characteristics of unique fiber and starch sources in the pig. **Advances in Pork Production, 22** (Abstract # 17).
62. **R. Jha**, J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra (2010). Co-products inclusion in grower-finisher pig diets enhances carcass characteristics and reduces feed costs without affecting growth performance. **Proceedings of Western Nutrition Conference** (Sept 21-23, 2010), Saskatoon, SK, Canada. **pp.** **318**.
63. K. Kandel, **R. Jha**, E. Beltranena, and R. T. Zijlstra (2010). Effects of different sources of distillers dried grains with solubles on energy and protein digestibility and volatile fatty acids production in grower-finisher pigs. **Proceedings of Western Nutrition Conference** (Sept 21-23, 2010), Saskatoon, SK, Canada. **pp.** **316**.
64. **R. Jha**, J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra (2010). Effects of co-products inclusion on growth performance and carcass characteristics of grower-finisher pigs. **Journal of Animal Science, 88 (E-Suppl. 2):553-554** (Abstract # 677).
65. R. T. Zijlstra, **R. Jha**, M. G. Young, J. F. Patience, E. Beltranena, and J. K. Htoo (2010). Effects of dietary crude protein and inclusion of co-products on growth performance and carcass characteristics of grower-finisher pigs. **Journal of Animal Science, 88 (E-Suppl. 2):554** (Abstract # 678).
66. **R. Jha**, J. Bindelle, B. Rossnagel, A. Van Kessel, and P. Leterme (2009). In vitro fibre fermentation characteristics of specialty ingredients with varying NSP levels. **Proceedings of Western Nutrition Conference** (Sept 23-24, 2009), Winnipeg, MB, Canada. **pp.** **308**.
67. **R. Jha**, J. Bindelle, B. Rossnagel, A. Van Kessel, and P. Leterme (2009). Fermentation characteristics in the pig intestines of hulless barleys differing in β-glucan content. Proceedings of 11th **International Symposium on Digestive Physiology of Pigs** (May 20-22, 2009), Montbrio del camp, Spain (Abstract # 209).
68. **R. Jha**, J. Bindelle, B. Rossnagel, A. Van Kessel, and P. Leterme (2009). In vitro evaluation of the fermentation characteristics in the pig intestines of hulless barleys differing in β-glucan content. **Journal of Animal Science, 87 (E-Suppl. 3):103** (Abstract # 210).
69. **R. Jha**, P. Kish, A. Van Kessel, and P. Leterme (2009). Feed ingredients differing in fermentable fibre content affect nitrogen excretion and fermentation metabolites in weaned pigs. **Advances in Pork Production, 20** (Abstract # 8).
70. R. Pieper, **R. Jha**, P. Leterme, B. Rossnagel, W. Souffrant, and A. Van Kessel (2008). Effect of hulless barley varieties with different β-glucan content on intestinal microbiota in pigs. **Proceedings of the Society of Nutrition Physiology** (1-3 April, 2008), Gottingen, Germany. **17:102**.
71. **R. Jha**, R. Pieper, B. Rossnagel, A. Van Kessel, and P. Leterme (2008). Digestibility and fermentation parameters of barleys and oats differing in β-glucan content in the pig intestines. **Journal of Animal Science, 86 (E-Suppl. 3):66** (Abstract # 96).
72. R. Pieper, **R. Jha**, P. Leterme, B. Rossnagel, W. Souffrant, and A. Van Kessel (2008). Effect of barley and oats β-glucans on intestinal microbiota in the pig. **Journal of Animal Science, 86 (E- Suppl. 3):104** (Abstract # 217).
73. **R. Jha**, R. Pieper, B. Rossnagel, A. Van Kessel, and P. Leterme (2008). Effect of oats and hulless barleys differing in β-glucan content on digestibility and intestinal fermentation parameters in weaned pigs. **Advances in Pork Production, 19** (Abstract # 13).
74. R. Pieper, **R. Jha**, A. Van Kessel, B. Rossnagel, W. Souffrant, and P. Leterme (2008). Effect of hulless barleys differing in β-glucan content on the intestinal ecology of weaned pigs. **Advances in Pork Production, 19** (Abstract # 12).
75. K. Mai, **R. Jha**, R. P. Kwakkel, A. F. B. van der Poel, and M. W. A. Verstegen (2006). Effect of diet structure, conformation and acidification on performance of broilers. **Proceedings of 31st Annual Meeting of Dutch Speaking Nutritionists** (Apr 7, 2006), Rotterdam, The Netherlands. **pp. 56-57**.
76. **R. Jha**, G. N. Gongal, and S. N. Mahato (1999). A retrospective study of animal rabies in Nepal. Proceedings of Sixth National Veterinary Conference (Sept 22-24, 1999), Kathmandu, Nepal.

Leadership Roles (Committees, Boards, Advisory, etc.)

**Professional leadership roles / service**

* **Section Editor:** Poultry Science- Nutrition and Metabolism section (since 2019)
* **Associate Editor:** Poultry Science (since 2018)
* **Associate Editor**: Animal Science Journal (since 2018)
* **Associate Editor:** Frontiers in Veterinary Science- Animal Nutrition and Metabolism (since 2018)
* **Ad-hoc reviewer of** **scientific journals**:
* Poultry Science, Journal of Animal Science, Animal Feed Science and Technology, Animal, Reviews in Aquaculture, British Journal of Nutrition, Canadian Journal of Animal Science, Animal Science Journal, Animal Production Science, Livestock Science, BMC Veterinary Research, PLoS ONE.
* **Ad-hoc reviewer of grant proposals** for different organizations both from US and abroad. Few to name are Teagasc Ireland, NWO Netherland, NCN Poland, OMAFRA Canada, Virginia Tech University and University of Wisconsin- Milwaukee.
* **External Evaluator of Faculty Tenure and Promotion application (2018):** University of Agriculture Peshawar, Pakistan
* **External Examiner of PhD Dissertation- 1** (2020): Central Queensland University, Australia
* **External Examiner of PhD Dissertation- 1** (2020): University of Agriculture Peshawar, Pakistan
* **External Examiner of PhD Dissertation- 1** (2019): University of Manitoba, Canada
* **External Examiner of PhD Dissertation- 1** (2019): University of New England, Australia
* **External Examiner of PhD Dissertation- 1** (2017): University of Queensland, Australia
* **External Examiner of MS Thesis- 2** (2017, 2018): The University of the South Pacific, Fiji Islands
* **Expert Volunteer**: Served as an Expert Volunteer in Myanmar (June 1-19, 2016), and Nepal (Dec 9-31, 2016 and Mar 15 - Apr 1, 2018) for the USAID/Farmers to Farmers program through Winrock International
* **Chair**: Comparative Gut Physiology Program Committee of ASAS-CSAS-SSASAS Annual Meeting & Trade Show (July 14-18, 2021), Louisville, KY.
* **Member**: NE-1442- Poultry Production Systems and Well-being: Sustainability for Tomorrow (since 2017 to date)
* **Chair**: NCCC042- Committee on Swine Nutrition, USDA (2017)
* **Vice Chair**: NCCC042- Committee on Swine Nutrition, USDA (2016)
* **Secretary**: NCCC042- Committee on Swine Nutrition, USDA (2015)
* **Member**: NCCC042- Committee on Swine Nutrition, USDA (since 2013)
* **Session Chair**: for different national and international conferences
* **Judging Science Fair and Debate Tournament**:
* I have been serving as a judge for Science Fair and Debate Tournaments at Honolulu district level and Hawaii State level regularly since 2012. So far, I have judged 28 such events in last 8 years.
* **Member**- Planning Committee, Annual NACTA (North American Colleges and Teachers of Agriculture) Conference (June 14-17, 2011), University of Alberta, Canada
* **Member** (2007-2008): University Council, University of Saskatchewan, Canada
* **Course Councilor** (2007-2008): Graduate Students Association, University of Saskatchewan, Canada
* **Chairman** (2004-2005): International Student Panel, Wageningen University, the Netherlands
* **Coordinator** (1995-1996): Forum for Technical Students, TU, Nepal
* **Acting President** (1994-1996): Free Students Union, IAAS Rampur, TU, Nepal
* **Vice President** (1992-1994): Free Students Union, IAAS Rampur, TU, Nepal

**Institutional leadership roles / service**

**UHM- University level:**

* **Senator:** Manoa Faculty Senate (2017-19, 2019- 21), UH Manoa
* **Member:** Research Advisory Committee of Vice Chancellor for Research (2017-19), UH Manoa
* **Expert panelist:** New Faculty Orientation Program Fall 2015, UH Manoa
* **Reviewer of Grant / Scholarship Application**:
* Marshall Scholarship, UH Manoa, Fall 2017.
* Associated Students of the University of Hawaii at Manoa’s (ASUH) Spring 2012 and Fall 2015 Scholarship
* Undergraduate Research Opportunity Program (UROP), UH Manoa Fall 2015 Scholarship
* **Judge**:
* Oral presentation. UROP Spring Symposium (May 4, 2018), UH Manoa
* Oral presentation. UROP Spring Symposium (May 6, 2016), UH Manoa
* Oral presentation. UROP Spring Symposium (May 8, 2015), UH Manoa
* Oral presentation. UROP Fall Symposium (Dec 12, 2014), UH Manoa
* Oral presentation. UROP Spring Symposium (May 8, 2014), UH Manoa

**CTAHR- College level:**

* **Chair**:CTAHR Faculty Senate Executive Committee (2015-16)
* **Vice Chair**: CTAHR Senate Executive Committee (2014-2016)
* **Member**: Search committee for Interim Dean and Director of Research of CTAHR (2016), (*Hire was made*)
* **Member**: Search committee for Associate Dean and Associate Director of Research of CTAHR (2013-14), (*Hire was made*)
* **Member**: CTAHR Faculty Senate (2013-15), UH Manoa
* **Member**: CTAHR Faculty Senate Research Committee (2013-14), UH Manoa
* **Judge**:
* Graduate Student Oral Presentation. Students’ Research Symposium (2013, 2014, 2015, 2016, 2017, 2018 and 2019)

**HNFAS- Department level:**

* **Graduate Chair:** Animal Science Program (Fall 2016 to date)
* **Member:** Department Promotion Committee (2018-2020)
* **Chair**: Curriculum / Instruction Committee (2017-18, 2018-19, 2019-20)
* **Chair**: Search committee for Assistant Aquaculture Specialist (2019-20) (*Position frozen with University administration’s order after COVID-19 situation*)
* **Member**: Search committee for Assistant Professor of Nutritional Biochemistry (2019) (*Hire was made*)
* **Member**: Curriculum / Instruction Committee (2016-17)
* **Member**: Research and Extension Committee (2012-13, 2013-14, 2014-15, 2015-16)
* **Member**: Search committee for Assistant Professor of Physiology (2015-16), (*Hire was made*)
* **Mentor**: Graduate Students Organization of HNFAS, UH Manoa
* **Facilitator** to the “Internship program in Aquaponic System (4 months)” as a Nutrition Expert for 6 interns from Rota Island. The program was co-organized by HNFAS.

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| Category | Current Number of Students | Number Graduated (Career) |
| *Chair* of Master’s Committees | 0 | 8 |
| *Chair* of PhD Committees | 1 | 4 |
| Member of Master’s Committees | 3 | 9 |
| Member of PhD Committees | 4 | 3 |

**Grant Support**

* **Co-PI**- Leveraging established research plantings to understand drivers of fruit quality in and its impacts on post-harvest processes and profits. USDA-AFRI. **$479,302** (2020-25, PI- Dr. N Lincoln, TPSS, CTAHR). My share- 25%.
* **PI**- Effect of a novel carbohydrase supplementation in corn/soy-based diets on growth performance and gut health of broiler chickens. DSM Nutritional Products AG, Switzerland. **$94,676** (2018-20).
* **Co-PI**- Establishing a new aquaculture demonstration center at the University of Hawai‘i that integrates Land Grant-Sea Grant research, extension and education services. **$749,815** (2019-21) (PI- Dr Darren Lerner- Sea Grant College Program, UHM). my share- 25%.
* **PI**- Nutrition programming of monogastric animals using alternative feedstuffs. USDA- Hatch and Smith Lever Fund. **$60,000** (2018-20).
* **PI**- Unrestricted gift from Ulupono Initiative Hawaii. **$9,000** (2018).
* **Co-PI**- Maternal immunization against myostatin to enhance post-hatch broiler growth and muscle mass. USDA- Hatch fund. **$76,316** (2018-20) (PI- Dr Y.S. Kim- HNFAS). my share- 30%.
* **Co-PI**- The use of local surveillance and analysis for Hawaii's poultry industry. Dept of Agriculture, State of Hawaii. **$81,730** (2018-19, PI- Mr. M. Duponte). my share- 25%.
* **PI**- Effect of xylanase enzyme and prebiotic supplementation in diets on growth performance and intestinal health parameters of broiler chickens. AB Vista Feed Ingredients, UK. **$28,091** (2017-18).
* **Co-PI**- Analysis of oviductal functions in laying hen. USDA- Hatch fund. **$70,000** (2017-19) (PI- Dr B. Mishra - HNFAS). my share- 25%.
* **Co-PI**- Assessing and sharing breadfruit management practices. USDA- Western SARE. **$220,812** (2017-20, PI- Dr. N. Lincoln). my share- 20%.
* **Co-PI**- Increasing Veterinary Services for Food/Production Animals in Hawai'i. USDA-NIFA, VSGP program. **$169,304** (2017-20, PI- Dr. J. Odani). my share- 20%.
* **PI**- Evaluating local feedstuffs for their effects on performance and gut health of poultry and fish. Ulupono Initiative Hawaii. **$107,000** (2017, Unrestricted gift).
* **PI**- Effect of xylanase on growth performance, cecal short chain fatty acids production and gut microbiota of broilers fed different levels of fiber. AB Vista Feed Ingredients, UK. **$28,091** (2016, Unrestricted gift).
* **Co-PI**- The Effects of Stocking Density, Forage Environment, and Climate on Animal Performance in Tropical Forage Finish Beef Production. USDA- Smith Lever fund. **$79,794** (2016-18, PI- Dr. M. S. Thorne). my share- 20%.
* **PI**- Nutritional evaluation of local feedstuffs for swine in Hawaii. USDA- Hatch and Smith Lever fund. **$80,000** (2015-17).
* **PI**- Evaluation of nutrient content of Hawaii-grown avocados and identification of optimal harvest period. USDA- Hatch and Smith Lever fund. $**78,352** (2015-17). I took over this project from Dr. M. Stewart who resigned in August 2016.
* **Co-PI**- The use of agricultural byproducts for animal feeds in Hawaii. USDA- Smith Lever fund. **$38,200** (2015-17, PI- Mr. M. Duponte). my share- 40%.
* **Co-PI**- Potentials of the anti-MSTN proteins to enhance skeletal muscle growth of animals. USDA- Hatch Fund. **$58,938** (2015-17, PI- Dr. Y. S. Kim). my share- 30%.
* **PI**- In vitro digestibility of animal protein meals. Evonik Corporation, USA. **$17,500** (2015, Unrestricted gift).
* **PI**- Investigating lysine absorption in the cecum of the boiler chicken- a pilot study. Massey University, New Zealand. **$10,000** (2015, Unrestricted gift).
* **PI**- Evaluation of fibrous feedstuffs for their nutritional and functional value. Ulupono Initiative, Hawaii. **$20,000** (2015, Unrestricted gift).
* **PI**- Enhancing nutrient utilization of corn DDGS by feed enzymes in the pig intestine. National Pork Board. **$83,205** (2015-16).
* **PI**- Effect of feed additives on digestibility and growth performance of broilers fed high and low NSP diets. Dupont/ Danisco Animal Nutrition, UK. **$93,391** (2013-14).
* **PI**- Nutritional evaluation of feedstuffs for sustainable and healthy animal production in Hawaii. USDA- ARS collaborative research fund (Agreement no. 58-5320-3-022). **$265,000** (2013-18).
* **Co-PI**- Enhancing the sustainability of grass-fed beef production through the improvement of carcass and meat quality characteristics of pasture-finished cattle in Hawaii. USDA- WSARE, Professional & Producer grant. **$49,019** (2013-16, PI- Dr. Y. S. Kim). my share- 30%.
* **Co-PI**- Evaluation of grass-finished beef production in Hawaii: evaluation of soil fertility, forage quality, and herd genetics. Ulupono Initiative Hawaii. **$167,053** (2013-15, PI- Dr. A. Stokes). my share- 30%.
* **PI-** Evaluation of alternative feedstuffs for utilization in swine diets. USDA- Hatch and Smith Lever Fund. **$105,742** (2013-15).
* **Co-PI**- Rural Poultry- a complete program for small scale poultry production. USDA- Smith Lever fund. **$20,320** (2013-15, PI- Mr. M. DuPonte). my share- 30%.
* **PI**- Strengthening animal nutrition research program at the Department of HNFAS, UHM. CTAHR Instrumentation grant. **$42,440** (2013).
* **Co-PI**- Development of drought-tolerant forage. USDA- ARS collaborative research fund (Agreement no. 58-5320-3-022). **$45,000** (2012-13, PI- Dr. B. Turano). my share- 40%.
* **PI**- Nutrient composition and digestibility of local feedstuffs in swine. USDA- ARS collaborative research fund (Agreement no. 58-5320-3-022). **$45,000** (2012-13).
* **Co-PI**- Gut Reactions: A pilot study linking digestive health with ethnicity and chronic disease risk in Hawaii. USDA- Hatch and Smith Lever Fund. **$40,200** (2012-14, PI- Dr. M. Stewart). my share- 30%.

**Presentations at Conferences**

**Presentation as Invited Speaker**

***International presentation (invited)***

1. Feed enzymes and gut ecology of monogastric animals. Konkuk University (Oct 26, 2019), Seoul, South Korea.
2. Nutritional management to modulate gut health of poultry. Northwest Agriculture & Forestry University (Aug 29, 2019), Yangling, China.
3. Dietary fiber as a substrate to modulate gut health of poultry. Kyoto University (July 19, 2019), Kyoto, Japan.
4. Dietary fibers in poultry nutrition: Nutrient utilization and beyond. Tokyo University of Agriculture and Technology, (July 4, 2019), Tokyo, Japan.
5. Antibiotic free poultry production for healthy chicken. 2nd International forum on Food Nutrition and Health (June 13-15, 2019), Hebei Agricultural University, Baoding, China.
6. ***Keynote speaker***: Poultry production in post-antibiotic era: Challenges and Opportunities. Workshop on safe poultry meat and egg production (April 13, 2019, via video conference), Bangladesh Agricultural University, Bangladesh.
7. ***Keynote Speaker***: Dietary fiber in poultry nutrition: focus on gut health. Poultry Nutrition and Health Forum (Oct 26-28, 2018), Beijing, China.
8. Strategies to modulate the gut microbiota of Tilapia. Can Tho University (June 12, 2018), Can Tho City, Vietnam.
9. Alternative feedstuffs for cost-effective and healthy monogastric animals and fish production. Sino-US Symposium on Food, Nutrition and Health (June 5, 2018), Haikou, China.
10. Fermentable carbohydrates in poultry diet to modulate its gut health. Konkuk University (May 11, 2018), Seoul, South Korea.
11. Nutrition programing to improve gut health of broiler chickens. Northwest A&F University (Aug 11, 2017), Yangling, China.
12. Evaluation of feedstuffs and feed additives for their effects on growth performance and gut health of monogastric animals. Konkuk University (April 1, 2017), Seoul, South Korea.
13. Growing healthy chicken in post-antibiotic era”. Agriculture and Forestry University (February 10, 2017, via video conference), Rampur, Nepal.
14. Probiotics in poultry nutrition. Nepal Veterinary Association (Dec 29, 2016), Kathmandu, Nepal.
15. ***Keynote Speaker***: Rapid techniques for feed evaluation: Scope and limitations. New Zealand Poultry Industry Conference (Oct 4-5, 2016), Wellington, New Zealand; Organized by World Poultry Science Association, New Zealand branch.
16. Tools and techniques for nutrition and gut health studies of monogastric animals. Feed Research Institute, China Academy of Agricultural Sciences (Sept 9, 2016), Beijing, China.
17. Dietary manipulation in swine to improve gut health and the environment. Kasetsart University (Sept 23, 2015), Bangkok, Thailand.
18. Animal feed to human food: Understanding the dynamics. Asian Institute of Technology (Sept 22, 2015), Pathumthani, Thailand.
19. Alternative feedstuffs in swine and poultry feeding: Opportunities and challenges. National Institute of Animal Sciences (July 3, 2014), Suwon, South Korea.
20. Tips and tricks of presenting works via peer-reviewed publications. Nepal Veterinary Association (May 24, 2013), Kathmandu, Nepal.
21. Co-products utilization in pig diets. Alberta Pork Regional Meeting (June 11, 2012), Grand Prairie, AB, Canada.
22. Probiotics, Prebiotics, Synbiotics, and Immunobiotics: are they alternative to Antibiotics? National meeting of Nepal Veterinary Association (June 12, 2011), Kathmandu, Nepal.
23. Agriculture in Nepal: System, Issues and Options. Annual Conference of World Association of Agricultural Councils (March 10-15, 2009), Saskatoon, SK, Canada.

***National presentation (invited)***

1. Fiber in Swine diets: Nutrition and Beyond. University of Arkansas Fayetteville (March 10, 2014), Fayetteville, AR, USA.

***Local presentation (invited)***

1. Nutrition programing for cost effective, sustainable and healthy animal production. USDA-FAS Cochran Fellowship Program (participants from Thailand) at UH Manoa (Sept 19, 2017).
2. Can probiotics mitigate the ill-effects of antibiotic ban? Graduate Seminar Series of Department of HNFAS, UH Manoa (Jan 27, 2017).
3. Sustainable animal feeding program in Hawaii: Opportunities and challenges. US Pacific Basin Agricultural Research Center (August 7, 2015), Hilo, HI, USA.
4. Feeding fermented diets using local feedstuffs to pigs and poultry. Korean Natural Farming Association (February 10, 2015), Hilo, HI, USA. Video of the presentation is available online at <https://www.youtube.com/watch?v=mEQhtruiIxw>
5. Animal feedstuffs, supplements and gut health: unlocking the potential. CTAHR- TUAT (Tokyo University of Agriculture and Technology) Research Symposium (May 14-15, 2015), UH Manoa.
6. Connecting the dots of Agriculture, Nutrition and Health: A global perspective. Graduate Seminar Series of Department of HNFAS, UH Manoa (Jan 30, 2015).
7. Effective teaching and learning: keys to consider. CTAHR Instructional Innovations Workshop, UH Manoa (Sept 11, 2013).
8. Use of fiber in swine diet- Basics to applied research. Graduate Seminar Series of Department of HNFAS, UH Manoa (Mar 18, 2013).

**Presentation in Professional Meetings (**\***Presenter)**

(I am in supervisory role if I am not the presenter since 2012 when I joined UHM and underlined author(s) are my Mentees)

1. J. Zhang, K. Cai, R. Mishra, and **R. Jha\*** (2020). Effects of in ovo inoculation of chicken embryos with chitooligosaccharide and chlorella polysaccharide on the gut health parameters of broiler chickens (**Oral**). PSA Virtual Annual Meeting (July 20-23, 2020).
2. A. K. Singh\*, T. Park, J. Legaspi, K. Neupane, and **R. Jha** (2020). Effect of NSPase enzyme and residual fiber from digested feed on cecal short chain fatty acids production and cecal microbiota diversity in broilers, studied in vitro (**Oral**). PSA Virtual Annual Meeting (July 20-23, 2020).
3. A. K. Singh\*, B. Mishra, M. R. Bedford, and **R. Jha** (2020). Effects of xylanase and xylooligosaccharides supplementation on productive performance and gut health variables of broilers (**Oral**). PSA Virtual Annual Meeting (July 20-23, 2020).
4. S. Wasti**\***, C. N. Lee, **R. Jha**,and B. Mishra (2020). Dietary supplementation of alpha-lipoic acid mitigates the negative effects of heat stress in poultry (**Oral**). PSA Virtual Annual Meeting (July 20-23, 2020).
5. R. Mishra**\***, **R. Jha**,B. Mishra,andY. S. Kim (2020). Effects of maternal immunization against myostatin on the post-hatch growth performance of their chicks (**Poster**). PSA Virtual Annual Meeting (July 20-23, 2020).
6. B. Adhikari**\***, C. N. Lee, V. S. Khadka, Y. Deng, **R. Jha**,and B. Mishra (2020). RNA-sequencing based analysis of bovine endometrium during the maternal recognition of pregnancy (**Oral**). SRS Virtual Annual Meeting (July 8-12, 2020).
7. A. MacDonald\*, A. Garcia-Ortega, and **R. Jha** (2020). The effect of microalgae as a fish meal and fish oil replacement on the intestinal microbiota of Tilapia (*Oreochromis niloticus × O. mossambicus*) aquaculture from gut health perspective (**Poster**). Aquaculture America 2020 (Feb 9-12, 2020) Honolulu, HI, USA.
8. A. Garcia-Ortega\*, A. MacDonald, and **R. Jha** (2020). Algal meals from *Arthrospira platensis* and *Schizochytrium limacinum* as complete replacement of fish meal, fish oil and soy protein concentrate in feeds for Tilapia (**Oral**). Aquaculture America 2020 (Feb 9-12, 2020) Honolulu, HI, USA.
9. A. K. Singh\*, B. Mishra, and **R. Jha** (2020). Early post-hatch feeding of resistant starch can influence cell-mediated immunity and gut microbiota diversity in broilers (**Poster**). International Poultry Scientific Forum (Jan 27-28, 2020), Atlanta, GA, USA.
10. A. K. Singh\*, R. K. Mandal, M. R. Bedford, and **R. Jha** (2020). Xylanase improves growth performance, enhances cecal short chain fatty acids production and increases relative abundance of fiber fermenting cecal microbiota in broilers (**Oral**). International Poultry Scientific Forum (Jan 27-28, 2020), Atlanta, GA, USA.
11. A. K. Singh\*, B. Mishra, and **R. Jha** (2019). Effects of early feeding with resistant starch during post-hatch on growth performance and gut health parameters of broilers (**Poster**). PSA Annual Meeting (July 15-18, 2019), Montréal, QC, Canada.
12. A. K. Singh\*, U. P. Tiwari, B. Mishra, and **R. Jha**. Comparative effects of in ovo injection of oligosaccharides (xylotriose, xylotetraose, mannotriose, and mannotetraose) on growth performance and gut health parameters of broilers (**Poster**). PSA Annual Meeting (July 15-18, 2019), Montréal, QC, Canada.
13. K. D. Caliboso, J. E. Nanquil, S. Yadav\*, H. Kae, K. Neupane, B. Mishra, and **R. Jha**. Cecal microbiota profile of Hawaiian feral chickens and pasture-raised broiler chickens (**Poster**). PSA Annual Meeting (July 15-18, 2019), Montréal, QC, Canada.
14. S. Wasti\*, D. L. Kuehu, N. Sah, A. K. Singh, **R. Jha**, and B. Mishra. Dietary supplementation of dried plum: A novel strategy to mitigate heat stress in poultry (**Poster**). PSA Annual Meeting (July 15-18, 2019), Montréal, QC, Canada. (Received **"Certificate of Excellence for Best Project in Metabolism and Nutrition Section"**)
15. N. Sah\*, D. L. Kuehu, S. Wasti, **R. Jha**, and B. Mishra. New transcriptomic insights into processes associated with formation of egg-white in the magnum of laying hens (**Poster**). PSA Annual Meeting (July 15-18, 2019), Montréal, QC, Canada.
16. B. Mishra\*, N. Sah, D. L. Kuehu, S. Wasti, and **R. Jha**. Transcriptional regulation of albumen biosynthesis and eggshell biomineralization in the oviduct of laying hens (**Oral**). PSA Annual Meeting (July 15-18, 2019), Montréal, QC, Canada.
17. A. M. MacDonald\*, A. Garcia, and **R. Jha**. Modulation of the intestinal histology and microbiome using microalgae as a fishmeal/fish oil replacement in the diets of tilapia (**Oral**). 31st Annual CTAHR Student Research Symposium (April 15, 2019), Honolulu, HI, USA.
18. D. L. Kuehu\*, N. Sah, C. N. Lee, **R. Jha**, and B. Mishra. Heat stress impacts the health of the laying hen through altering the regulation of heat shock and reactive oxidative stress genes in the liver (**Oral**). 31st Annual CTAHR Student Research Symposium (April 15, 2019), Honolulu, HI, USA.
19. S. Wasti\*, D. L. Kuehu, N. Sah, A. K. Singh, **R. Jha**, and B. Mishra. Dietary supplementation of dried plum: A novel strategy to mitigate heat stress in poultry (**Oral**). 31st Annual CTAHR Student Research Symposium (April 15, 2019), Honolulu, HI, USA.
20. S. N. Haverly\*, S. Wasti, D. L. Kuehu, N. Sah, A. K. Singh, **R. Jha**, and B. Mishra. The effects of environmental heat stress on the spleens of broiler chickens (**Oral**). 31st Annual CTAHR Student Research Symposium (April 15, 2019), Honolulu, HI, USA (Received **CTAHR Best BS Student Oral Presentation Award**).
21. L. Li\*, A. K. Singh, B. Mishra, and **R. Jha**. Effect of *in ovo* injection of probiotic, prebiotic and synbiotic on growth performance and gut health parameters of broiler chickens (**Poster**). PSA Annual Meeting (July 23-26, 2018), San Antonio, TX, USA.
22. S. Yadav, Y. Li, Y. S. Kim, C. N. Lee, and **R. Jha**\*. Effect of feeding lactic acid bacteria isolated from taro (*Colocasia esculenta*) skins on growth performance, gut microbiota and muscle growth of broiler chickens (**Poster**). PSA Annual Meeting (July 23-26, 2018), San Antonio, TX, USA.
23. N. Sah\*, D. L. Kuehu, V. S. Khadka, **R. Jha**, and B. Mishra. Transcriptomic analysis of the shell gland in layers identifies novel genes in eggshell biomineralization (**Poster**). PSA Annual Meeting (July 23-26, 2018), San Antonio, TX, USA. (Received **"Certificate of Excellence for Best Project in Physiology and Reproduction Section" and "PSA Graduate Student Travel Award"**).
24. U. P. Tiwari, and **R. Jha**\*. Fermentation characteristics of xylo- and manno-oligosaccharides and soluble and insoluble arabinoxylan studied using an in vitro model of swine (**Poster**). ASAS/CSAS Annual Meeting and Trade Show (July 8-12, 2018), Vancouver, BC, Canada.
25. U. P. Tiwari, B. Kerr, and **R. Jha**\*. Nutrient and amino acids digestibility of animal protein byproduct in swine, determined using an in vitro model (**Poster**). ASAS/CSAS Annual Meeting and Trade Show (July 8-12, 2018), Vancouver, BC, Canada.
26. B. A. Castle\*, J. Odani, **R. Jha**, N. Ogasawara, and H. M. Zaleski. Survey of disease, management and biosecurity practices of Hawaii swine farmers (**Poster**). ASAS/CSAS Annual Meeting and Trade Show (July 8-12, 2018), Vancouver, BC, Canada.
27. A. MacDonald\*, and **R. Jha**. Evaluation of cassava chips as an alternative feed ingredient in hybrid tilapia (*Oreochromis niloticus* × *Oreochromis mossambicus*) aquaculture from gut health perspective (**Poster**). The International Symposium on Fish Nutrition and Feeding (June 3-7, 2018), Las Palmas de Gran Canaria, Spain.
28. S. Yadav\*, A. K. Singh, U. P. Tiwari, B. Mishra, and **R. Jha**. Cassava root chips an alternative to corn in broiler diet: effect on growth performance and gut health parameters (**Oral**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA (Received **HNFAS Best PhD Student Oral Presentation Award**).
29. A. K. Singh\*, T. Park, J. Legaspi, K. Neupane, and **R. Jha**. Effect of fiber degrading enzyme and feed’s residual fiber on cecal short-chain fatty acids production and microbial diversity as revealed by metagenomics during in vitro study in broilers (**Poster**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA.
30. U. P. Tiwari\*, B. Kerr, and **R. Jha**. Nutrient profile and in vitro digestibility of nutrients (energy, protein and amino acids) of animal protein byproducts (**Oral**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA.
31. A. Mau\*, J. Arios, A. Valdez, P. Nicodemus, **R. Jha**, and J. P. Bingham. Chemical Synthesis of a Novel Peptide (oGnRH) for Pheromone Stimulation of Spawning in ‘Opihi (*Cellana spp.*) (**Poster**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA (Received **CTAHR 30th Annual Best PhD Student Poster Presentation Award**).
32. L. Li\*, A. K. Singh, B. Mishra, and **R. Jha**. Effect of in ovo injection of probiotic, prebiotic and synbiotic on growth performance and gut health of broiler chickens (**Poster**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA.
33. D. L. Kuehu\*, N. Sah, C. N. Lee, **R. Jha**, and B. Mishra. Effects of heat stress on the oviductal gene expression and egg qualities in the laying hen (**Poster**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA.
34. N. Sah\*, D. L. Kuehu, V. S. Khadka, **R. Jha**, and B. Mishra. RNA sequencing of the shell gland reveals novel genes related to calcium remodeling during eggshell formation in laying hens (**Oral**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA (Received **HNFAS Best MS Student Oral Presentation Award**).
35. S. Wasti\*, N. Sah, D. L. Kuehu, Y.S. Kim, **R. Jha**, and B. Mishra. Expression of follistatin and myostatin in the oviduct of laying hen (**Poster**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA.
36. B. A. Castle\*, J. Odani, **R. Jha**, N. Ogasawara, H. M. Zaleski. Survey of Disease, Management and Biosecurity Practices of Hawai‘i Swine Farmers (**Oral**). 30th Annual CTAHR/COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA (Received **Gamma Sigma Delta MS Student Oral Presentation Award**).
37. K. Rednour\*, J. Yoshioka, A. M. MacDonald, K. Neupane, and **R Jha**. Effects of replacing corn with sun-dried cassava chips in diets on the intestinal microbiota of hybrid tilapia (*Oreochromis niloticus × O. mossambicus*) (**Poster**). 30th Annual CTAHR /COE Student Research Symposium (April 6-7, 2018), Honolulu, HI, USA.
38. A. K. Singh\*, R. Kida, M. Bedford, and **R. Jha**. Effect of xylanase on growth performance and cecal short-chain fatty acid production in broilers fed different levels  
    of fiber (**Poster**). PSA Annual Meeting (July 17-20, 2017), Orlando, FL, USA (**Received "Certificate of Excellence for Best Project in Metabolism and Nutrition Section" and "PSA Graduate Student Travel Award"**).
39. S. Yadav\*, and **R. Jha**. Cassava chips as an alternative feedstuff for broiler chickens: effect on growth performance and ileal morphology (**Poster**). PSA Annual Meeting (July 17-20, 2017), Orlando, FL, USA.
40. S. Yadav\*, K. Neupane, and **R. Jha**. Macadamia nut cake as an alternative feedstuff for broiler chickens: effect on growth performance and gut microbiota profile (**Poster**). PSA Annual Meeting (July 17-20, 2017), Orlando, FL, USA.
41. U. P. Tiwari, and **R. Jha**\*. Supplementation of xylanase and mannanase influences in vitro fermentation characteristics of distiller's dried grain with solubles in the large intestine of swine (**Oral**). ASAS/CSAS Annual Meeting and Trade Show (July 8-12, 2017), Baltimore, MD, USA.
42. A. K. Singh\*, R. Kida, M. Bedford, and **R. Jha**. Growth performance and cecal short-chain fatty acid production in broilers fed different levels of wheat bran without or with xylanase (**Oral**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA (Received **CTAHR PhD Student Oral Presentation Award of Merit**).
43. U. P. Tiwari\*, and R. Jha. Supplementation of enzymes affects in vitro fermentation characteristics of distillers dried grain with solubles in swine (**Poster**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA (Received **HNFAS Best PhD Student Poster Presentation Award**).
44. A. Mau\*, and **R. Jha**. The effect of protein-energy ratio in diets on the growth performance of ‘opihi (*Cellana sandwicensis*) in a novel rearing system (**Oral**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA (Received **CTAHR MS Student Oral Presentation Award of Merit**).
45. S. Yadav\*, K. Neupane, and **R. Jha**. Macadamia nut cake as an alternative feedstuff for broiler chickens: effect on growth performance and gut microbiota (**Oral**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA (Received **HNFAS Best MS Student Oral Presentation Award**).
46. J. Kai\*, J. P. Bingham, A. Franke, G. Agbor, M. Stewart, and **R. Jha**. Nutrient profile of Hawaii and Cameroon grown avocados (**Poster**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA.
47. N. Ogasawara\*, J. Odani, **R. Jha**, B. Castle, and H. M. Zaleski. Evaluating swine herd health and farm practices in Hawaii (**Poster**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA.
48. D. Inouye\*, J. Miller, S. Yadav, K. Neupane, and **R. Jha**. Effect of Macadamia Nut Cake on Gut Microbial Diversity in Broiler Chickens (**Poster**). 29th Annual CTAHR/COE Student Research Symposium (April 7-8, 2017), Honolulu, HI, USA (Received **HNFAS Best BS Student Poster Presentation Award**).
49. J. D. Berrocoso, A. K. Singh, and **R. Jha**\*. Effect of macadamia nut cake inclusion on growth performance of pasture raised broiler chickens (**Poster**). World’s Poultry Congress (Sept 5-9, 2016), Beijing, China.
50. Y. S. Kim\*, G. Fukumoto, M. Stevenson, M. Thorne, and **R. Jha**. Carcass traits and tenderness of grass-fed beef from subtropical pastures in Hawaii (**Oral**). AAAP Animal Science Congress(Aug 22-25, 2016), Fukuoka, Japan.
51. U. P. Tiwari\*, and **R. Jha**. Nutrient profile and in vitro digestibility of cassava silages in swine (**Poster**). ASAS/ADSA/CSAS/WSASAS Joint Annual Meeting (July 19-23, 2016), Salt Lake City, UT, USA.
52. U. P. Tiwari\*, H. Chen, S. W. Kim, and **R. Jha**. Effect of supplemental enzyme on growth performance, digesta viscosity, apparent total tract digestibility of nutrients in nursery pigs (**Oral**). ASAS/ADSA/CSAS/WSASAS Joint Annual Meeting (July 19-23, 2016), Salt Lake City, UT, USA.
53. U. P. Tiwari\*, M. Mattus, K. Neupane, and **R. Jha**. In vitro fermentation characteristics of agricultural products and coproducts and its effect on the large intestinal microbiota of swine (**Oral**). ASAS/ADSA/CSAS/WSASAS Joint Annual Meeting (July 19-23, 2016), Salt Lake City, UT, USA.
54. C. Liu, A. K. Singh, M. Stewart, J. H. Uyehara-Lock, and **R. Jha\***. Effects of dietary fibers on obesity related physiological parameters in C57BL/6 mice (**Oral**).ASAS/ADSA/CSAS/WSASAS Joint Annual Meeting (July 19-23, 2016), Salt Lake City, UT, USA.
55. B. S. McNeill, J. Odani, **R. Jha\***, and H. M. Zaleski. Prevalence of *Brucella suis* in hunting dogs in Hawai`I (**Poster**). ASAS/ADSA/CSAS/WSASAS Joint Annual Meeting (July 19-23, 2016), Salt Lake City, UT, USA.
56. A. K. Singh\*, J. D. Berrocoso, R. Kida, Y. S. Kim, and **R. Jha**. In ovo inoculation of raffinose improves hatchability, vitalizes gut mucosa and enhances immune response in broiler chickens (**Oral**). Poultry Science Association Annual Meeting (July 11-14, 2016), New Orleans, LA, USA.
57. S. Yadav\*, J. D. Berrocoso, and **R. Jha**. Nitrogen-corrected apparent metabolizable energy value of macadamia nut cake for broiler chickens (**Poster**). Poultry Science Association Annual Meeting (July 11-14, 2016), New Orleans, LA, USA (Received **Certificate of Excellence for Best Presentation in Nutrition and Metabolism section**).
58. A. M. Haygood\*, and **R. Jha**. Evaluation of moringaleaves as a prebiotic in tilapia aquaculture from a production and health perspective. The International Symposium on Fish Nutrition and Feeding (June 5-10, 2016), Sun Valley, ID, USA.
59. A. K. Singh\*, J. D. Berrocoso, R. Kida, Y. S. Kim, and **R. Jha**. In ovo inoculation of raffinose improves hatchability, gut mucosal health and immune response in broiler chickens (**Oral**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA (Received **HNFAS Best PhD Student Oral Presentation Award**).
60. A. M. Haygood\*, and **R. Jha**. Evaluation of moringa leaves as an alternative feed ingredient in tilapia (*Oreochromis niloticus*) aquaculture from production, gut health, and economic perspective (**Oral**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA (Received **MBBE Best PhD Student Oral Presentation Award**).
61. U. P. Tiwari\*, S. W. Kim, and **R. Jha**. Effect of supplemental enzymes on growth performance, digesta viscosity, nutrient and fiber digestibility of nursery pigs (**Oral**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA.
62. S. Yadav\*, J. D. Berrocoso, and **R. Jha**. Apparent metabolizable energy content of Macadamia nut cake for broiler chickens (**Oral**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA (Received **HNFAS Best MS Student Oral Presentation Award**).
63. A. K. Singh\*, J. D. Berrocoso, J. Ludovico, and **R. Jha**. Effect of macadamia nut cake inclusion in diets on growth performance and cost of production of pasture raised broiler chickens in Hawaii (**Poster**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA (Received **Gamma Sigma Delta PhD Student Poster Presentation Award**).
64. U. P. Tiwari\*, and **R. Jha**. Nutrient profile and in vitro digestibility of cassava silages in swine (**Poster**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA (Received **HNFAS Best PhD Student Poster Presentation Award**).
65. K. Butler\*, G. K. Fukumoto, Y. S. Kim, and **R. Jha**. Seasonal and locational variation of nutrient profile and in vitro digestion kinetics of guinea grass and kikuyu grass for grass-fed beef production system on Hawaii Island (**Poster**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA.
66. C. Malabad\*, K. Balagso, A. Haygood, K. Neupane, and **R. Jha**. Effects of in vitro fermentation of alternative feedstuffs on intestinal microbiota of chicken analyzed using 16S ribosomal DNA typing (**Oral**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA.
67. S. Mattus\*, U. P. Tiwari, K. Neupane, and **R. Jha**. In vitro fermentation of Hawaiian feedstuffs and its effect on the intestinal microbiota of swine (**Poster**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA (Received **CTAHR Best BSc Student Poster Presentation Award**).
68. T. Peterson\*, L. Galicia, A. Haygood, K. Neupane, and **R. Jha**. In vitro fermentation of cassava silages and its effect on the intestinal microbiota of chicken (**Poster**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA.
69. A. P. Langlois\*, W. L. Ribeiro, and **R. Jha**. Nutritional value of rendered products in swine studied in vitro (**Poster**). 28th Annual CTAHR/COE Student Research Symposium (April 8-9, 2016), Honolulu, HI, USA.
70. T. Tashiro\*, T. Mendiola, A. K. Singh, A. Haygood, K. Neupane, and **R. Jha**. Supplementing Enzymes and Probiotics affect Gut Microbiota of Broiler Chicken Fed Fibrous Diets (**Poster**). NIH IDeA Western Regional Conference (Oct 12-14, 2015), Coeur d’Alene, ID, USA.
71. U. P. Tiwari, and **R. Jha**\*. Nutrient profile and in vitro digestibility of fresh and ensiled cassava in swine (**Oral**). International Seminar on Animal Industry (Sept 17-18, 2015) Bogor, Indonesia.
72. A. K. Singh\*, J. D. Berrocoso, Y. Dersjant-Li, A. Awati, and **R. Jha**. Effect of supplemental multi-enzymes and direct fed microbial on nutrients digestibility in broilers fed low and high fiber diets (**Oral**). Poultry Science Association Annual Meeting (July 27-30, 2015), Louisville, KY, USA.
73. A. K. Singh\*, J. D. Berrocoso, U. P. Tiwari, Y. Dersjant-Li, A. Awati, and **R. Jha**. Effect of supplemental multi-enzymes on growth performance of broilers fed low and high fiber diets (**Poster**). Poultry Science Association Annual Meeting (July 27-30, 2015), Louisville, KY, USA.
74. U. P. Tiwari and **R. Jha**\*. Nutrient profile and digestibility of macadamia nut cake as determined using an in vitro model of swine (**Oral**). ASAS/ADSA Joint Annual Meeting (July 12-16, 2015), Orlando, FL, USA.
75. U. P. Tiwari\*, H. M. Zaleski, and **R. Jha**. Nutrient profile and digestibility of agro-industrial coproducts as determined using an in vitro model of swine (**Oral**). ASAS/ADSA Joint Annual Meeting (July 12-16, 2015), Orlando, FL, USA.
76. U. P. Tiwari\* and **R. Jha**. Nutritional value of macadamia nut cake for swine (**Oral**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA (Received **HNFAS Best PhD Student Oral Presentation Award**).
77. A. K. Singh\*, J. D. Berrocoso, Y. Dersjant-Li, A. Awati, and **R. Jha**. Supplemental multi-enzymes and probiotics enhance nutrient digestibility in broilers fed low and high fiber diets (**Oral**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA.
78. U. P. Tiwari\*, H. M. Zaleski, and **R. Jha**. Nutritional value of agro-industrial co-products in swine (**Poster**). 27th Annual CTAHR/COE Student Research Symposium, Honolulu, HI, USA.
79. A. K. Singh\*, J. D. Berrocoso, Y. Dersjant-Li, A. Awati, and **R. Jha**. Supplemental multi-enzymes affect growth performance of broilers fed low and high fiber diets (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA (Received **HNFAS Best PhD Student Poster Presentation Award**).
80. A. K. Singh\*, M. W. DuPonte, and **R. Jha**. Growth performance and economics of raising pastured broiler chicken fed with diet based on local feedstuffs in Hawaii (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA.
81. C. Liu\*, A. K. Singh, M. Stewart, J. Uyehara-Lock, and **R. Jha**. Effects of fibers with varying viscosity and solubility on obesity related physiological parameters of mice (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA (Received **HNFAS Best MS Student Poster Presentation Award**).
82. K. Butler\*, G. K. Fukumoto, Y. S. Kim, and **R. Jha**. Nutrient profile of leucaena and guinea grass and growth performance and carcass quality of beef cattle grazed on these pastures in Hawaii (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA.
83. B. S. McNeill\*, H. M. Zaleski, A. M. Stokes, and **R. Jha**. *Brucella suis* in hunting dogs (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA.
84. M. Sakuda\* and **R. Jha**. Nutritional value of macadamia nut cake for tilapia (*Oreochromis honorum*) (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI (Received **HNFAS Best BSc Student Poster Presentation Award**).
85. S. Mattus\*, C. Bednarczyk, U. P. Tiwari, A. Haygood, K. Neupane, and **R. Jha**. Effect of in vitro fermentation of Hawaiian feedstuffs on intestinal microbial communities of pigs (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA.
86. T. Tashiro\*, T. Mendiola, A. K. Singh, A. Haygood, K. Neupane, and **R. Jha**. Effects of Supplementing Multi-Enzymes and Probiotics on Gut Microbiota of Broiler Chicken Fed High and Low Fiber Diets (**Poster**). 27th Annual CTAHR/COE Student Research Symposium (April 10-11, 2015), Honolulu, HI, USA.
87. U. P. Tiwari, B. Turano, and **R. Jha**\***.** Nutritional characteristics and in vitro digestibility by near-infrared spectroscopy of local and hybrid napiergrass varieties grown in rain-fed and irrigated conditions (**Oral**). Joint ISNH/ISRP International Conference (Sept 8-12, 2014), Canberra, Australia.
88. U. P. Tiwari\*, A. K. Singh, H. M. Zaleski, and **R. Jha**. Nutrient profile and in vitro digestibility of tubers in swine (**Oral**). ASAS/ADSA/CSAS Joint Annual Meeting (July 20-24, 2014), Kansas City, MO, USA.
89. T. A. Woyengo\*, **R. Jha**, E. Beltranena, and R. T. Zijlstra. In vitro digestion and fermentation characteristics and in vivo digestibility of canola co-products in the pigs (Oral). ASAS/ADSA/CSAS Joint Annual Meeting (July 20-24, 2014), Kansas City, MO, USA.
90. M. Sakuda\* and **R. Jha**. Effect of macadamia nut cake on growth performance and carcass quality of tilapia (*Oreochromis honorum*) (**Oral**). UROP Spring Symposium (May 8, 2014), UH Manoa, Honolulu, HI, USA.
91. U. P. Tiwari\*, B. Turano, and **R. Jha**. Nutritional profile and in vitro digestibility of local and hybrid napiergrass varieties grown in rain-fed and irrigated conditions (**Poster**). 26th Annual CTAHR/COE Student Research Symposium (April 11-12, 2014), Honolulu, HI, USA.
92. U. P. Tiwari\*, A. K. Singh, H. M. Zaleski, and **R. Jha**. Tubers can be used as alternative feedstuffs for swine feeding in Hawaii (**Oral**). 26th Annual CTAHR/COE Student Research Symposium (April 11-12, 2014), Honolulu, HI, USA.
93. **R. Jha**\*, P. Wasti, K. Thapa, and C. Chan-Halbrendt. Impact of farming system on nutritional status of women and children of Chepang Community of Nepal (**Oral**). International Conservation Agriculture Conference (Dec 9-13, 2013), Battambang, Cambodia.
94. **R. Jha**\*, L. F. Wang, P. R. Regmi, A. Pharazyn, and R. T. Zijlstra. Nutrient profile and in vitro vs. in vivo energy digestibility of legumes in growing pigs (**Oral**). ASAS/ADSA Joint Annual Meeting (July 8-12, 2013), Indianapolis, IN.
95. **R. Jha**\*, P. R. Regmi, L. F. Wang, A. Pharazyn, and R. T. Zijlstra. Nutrient profile and in vitro vs. in vivo energy digestibility of wheat co-products from flour milling in growing pigs (**Oral**). ASAS/ADSA Joint Annual Meeting (July 8-12, 2013), Indianapolis, IN.
96. T. A. Woyengo\*, **R. Jha**, E. Beltranena, and R. T. Zijlstra. In vitro degradation and fermentation characteristics of expeller-pressed canola meal and cold-pressed canola cake simulating the pig intestine (**Oral**). ASAS/ADSA Joint Annual Meeting (July 8-12, 2013), Indianapolis, IN, USA.
97. T. A. Woyengo\*, **R. Jha**, E. Beltranena, A. Pharazyn, and R. T. Zijlstra. Nutritional value of lentil and micronized full-fat soybean fed to growing pigs (**Oral**). ASAS/ADSA Joint Annual Meeting (July 8-12, 2013), Indianapolis, IN, USA.
98. **R. Jha**, P. Regmi, L. Wang\*, A. Pharazyn, and R. T. Zijlstra. Nutrient profile and energy digestibility of wheat co-products from flour milling differ in growing pigs (**Poster**). Banff Pork Symposium (Jan 15-17, 2013), Banff, AB, Canada.
99. T. A. Woyengo\*, **R. Jha**, E. Beltranena, A. Pharazyn, and R. T. Zijlstra (2013). Nutritional value of lentil and micronized full-fat soybean fed to growing-finishing pigs (**Poster**). Banff Pork Symposium (Jan 15-17, 2013), Banff, AB, Canada.
100. **R. Jha**\*, P. Leterme, A. G. Van Kessel, and R. T. Zijlstra. Fermentation characteristics of fibers in the matrix of cereals (barley and oats) or isolated from cereals in the pig intestine (**Oral**). 7th Canadian Barley Symposium (July 8 - 10, 2012), Calgary, AB, Canada.
101. **R. Jha**\*, J. Li, M. R. Bedford, C. R. Christensen, T. Vasanthan, and R. T. Zijlstra. Microscopic matrix and in vitro pig model fermentation of wheat and corn distillers dried grains with solubles with supplemental carbohydrases and protease (**Poster**). 12th International Symposium on Digestive Physiology of Pigs (May 29 - Jun 1, 2012), Keystone, CO, USA.
102. **R. Jha**\*, A. Owusu-Asiedu, P. H. Simmins, A. Pharazyn, and R. T. Zijlstra. Microscopic matrix and in vitro degradation and fermentation characteristics of wheat co-products from flour milling in the pig intestine (**Poster**). 12th International Symposium on Digestive Physiology of Pigs (May 29 - Jun 1, 2012), Keystone, CO, USA.
103. R. T. Zijlstra\*, **R. Jha**, A. D. Woodward, J. Fouhse, and T. A. T. G. van Kempen. Starch and fiber properties affect their kinetics of digestion and thereby digestive physiology in pigs (**Oral- Invited**). 12th International Symposium on Digestive Physiology of Pigs (May 29 - Jun 1, 2012), Keystone, CO, USA.
104. **R. Jha**\*, J. Li, M. R. Bedford, C. R. Christensen, T. Vasanthan, and R. T. Zijlstra. In vitro fermentation and microscopic matrix of distillers dried grains with solubles following enzyme treatment (**Oral**). ASAS/ADSA Midwestern Conference (Mar 19-21, 2012), Des Moines, IA, USA.
105. R. T. Zijlstra\* and **R. Jha**. Novel swine feeding programs to enhance competitiveness and pork differentiation: Feedstuffs and Carbohydrates (**Oral- invited**). Banff Pork Seminar (Jan 17-20, 2012), Banff, AB, Canada.
106. **R. Jha**\*, J. Li, M. R. Bedford, C. R. Christensen, T. Vasanthan, and R. T. Zijlstra. Enzymes enhance degradation of DDGS, revealed by in vitro gas production and microscopic examination (**Poster**). Banff Pork Seminar (Jan 17-20, 2012), Banff, AB, Canada.
107. **R. Jha**\*and R. T. Zijlstra. Evaluation of fermentation characteristics and volatile fatty acids production of unique fiber and starch sources using an in vitro model of the pig large intestine (**Oral**). ASAS/ADSA Midwestern Conference (Mar 14-16, 2011), Des Moines, IA, USA.
108. **R. Jha**\***,** J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra. Dietary co-products enhances pork omega-3 fatty acid and reduce feed costs without affecting carcass quality and growth (**Poster**). Banff Pork Seminar (Jan 18-21, 2011), Banff, AB, Canada.
109. **R. Jha**\***,** J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra. Effects of dietary crude protein and co-product level on growth performance and carcass quality of grower-finisher pigs (**Poster**). Banff Pork Seminar (Jan 18-21, 2011), Banff, AB, Canada.
110. **R. Jha**\***,** D. N. Overend, P. H. Simmins, D. Hickling, and R. T. Zijlstra. Effect of Canadian wheat classes on growth performance and energy digestibility in weaned pigs fed in pelleted diets (**Poster**). Banff Pork Seminar (Jan 18-21, 2011), Banff, AB, Canada.
111. **R. Jha**\*and R. T. Zijlstra. Fermentation characteristics of unique fiber and starch sources in the pig (**Poster**). Banff Pork Seminar (Jan 18-21, 2011), Banff, AB, Canada.
112. R. T. Zijlstra**\***, M. Swift, L. Wang, P. Regmi, J. H. Helm, and **R. Jha**. Rapid methods for prediction of energy values of feedstuffs for pigs (**Oral-invited**). Western Nutrition Conference (Sept 21-23, 2010), Saskatoon, SK, Canada.
113. **R. Jha**\***,** J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra. Co-products inclusion in grower-finisher pig diets enhances carcass characteristics and reduces feed costs without affecting growth performance (**Poster**). Western Nutrition Conference (Sept 21-23, 2010), Saskatoon, SK, Canada.
114. K. Kandel\*, **R. Jha**, E. Beltranena, and R. T. Zijlstra. Effects of different sources of distillers dried grains with solubles on energy and protein digestibility and volatile fatty acids production in grower-finisher pigs (**Poster**). Western Nutrition Conference (Sept 21-23, 2010), Saskatoon, SK, Canada.
115. **R. Jha**\*, J. K. Htoo, M. G. Young, E. Beltranena, and R. T. Zijlstra. Effects of co-products inclusion on growth performance and carcass characteristics of grower-finisher pigs (**Oral**). Joint Meeting of ADSA.PSA.AMPA.CSAS.WSASAS.ASAS (July 11-15, 2010), Denver, CO, USA.
116. R. T. Zijlstra\*, **R. Jha**, M. G. Young, J. F. Patience, E. Beltranena, and J. K. Htoo. Effects of dietary crude protein and inclusion of co-products on growth performance and carcass characteristics of grower-finisher pigs (**Oral**). Joint Meeting of ADSA. PSA. AMPA. CSAS. WSASAS. ASAS (July 11-15, 2010), Denver, CO, USA.
117. **R. Jha**\*, J. Bindelle, B. Rossnagel, A. Van Kessel, and P. Leterme. In vitro fibre fermentation characteristics of specialty ingredients with varying NSP levels **(Poster)**. Western Nutrition Conference (Sept 23-25, 2009), Winnipeg, MB, Canada.
118. **R. Jha**, J. Bindelle, B. Rossnagel, A. Van Kessel, and P. Leterme\*. Fermentation characteristics in the pig intestines of hulless barleys differing in β-glucan content, studied with an in vitro techniques **(Poster)**. 11th International Symposium on Digestive Physiology of Pigs (May 20-22, 2009), Montbrio del camp, Spain.
119. **R. Jha**\*, J. Bindelle, B. Rossnagel, A. Van Kessel, and P. Leterme. In vitro Evaluation of the Fermentation Characteristics in the Pig Intestines of Hulless Barleys Differing in β-glucan Content **(Oral)**.ASAS/ADSA Midwestern Conference (Mar 18-20, 2009), Des Moines, IA, USA.
120. **R. Jha**\*, P. Kish, A. Van Kessel, and P. Leterme. Feed Ingredients Differing in Fermentable Fibre Content Affect Nitrogen Excretion and Fermentation Metabolites in Weaned Pigs (**Poster**). Banff Pork Seminar (Jan 20-23, 2009), Banff, AB, Canada.
121. **R. Jha**\*, R. Pieper, B. Rossnagel, A. Van Kessel, and P. Leterme. Digestibility and Fermentation Parameters of Barley and Oats Differing in β-glucan Content in the Pig Intestines (**Oral**). ASAS/ADSA Midwestern conference (Mar 17-19, 2008), Des Moines, IA, USA.
122. R. Pieper\*, **R. Jha**, P. Leterme, B. Rossnagel, W. Souffrant, and A. Van Kessel. Effect of barley and oats β-glucans on intestinal microbiota in the pig (**Oral**). ASAS/ADSA Midwestern conference (Mar 17-19, 2008), Des Moines, IA, USA.
123. **R. Jha**\*, R. Pieper, B. Rossnagel, A. Van Kessel, and P. Leterme. Effect of Oats and Hulless Barleys Differing in β-glucan Content on Digestibility and Intestinal Fermentation Parameters in Weaned Pigs (**Poster**). Banff Pork Seminar (Jan 15-18, 2008), Banff, AB, Canada.
124. R. Pieper\*, **R. Jha**, A. Van Kessel, B. Rossnagel, W. Souffrant, and P. Leterme. Effect of hulless barleys differing in β-glucan content on the intestinal ecology of weaned pigs (**Poster**). Banff Pork Seminar (Jan 15-18, 2008), Banff, AB, Canada.
125. K. Mai\*, **R. Jha**, R. P. Kwakkel, A. F. B. van der Poel, and M. W. A. Verstegen. Effect of diet structure, conformation and acidification on performance of broilers (**Poster**). 31st Annual Meeting of Dutch Speaking Nutritionists (Apr 7, 2006), Rotterdam, The Netherlands.
126. **R Jha**\*, G. N. Gongal, and S. N. Mahato. A Retrospective Study of Animal Rabies in Nepal (**Oral**). Sixth National Veterinary Conference (Sept 22-24, 1999), Kathmandu, Nepal.
127. **R. Jha**\*, B. Pakhrin, and R. P. Thakur. Reproductive Problems in Pigs in the Eastern Hills of Nepal (**Oral**): Second National workshop on Livestock and Fisheries Research (Sept 24-25, 1997), Lalitpur, Nepal.
128. I. P. Dhakal\*, **R. Jha,** and H Basnet. Epidemiological Investigation of Common Diseases of Livestock at Pathivara VDC of Sankhuwasabha District, Nepal (**Oral**). Fifth National Veterinary Conference (Sept 11-13, 1996), Kathmandu, Nepal.

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FTE Distribution: 40% I; 60% R; 0% E

#### Education

Ph.D. in Agricultural & Biological Engineering, 2002

Penn State University, USA

M.S. in Food Science & Technology, 1998

Seoul National University, Korea

B.S. in Food Science & Technology, 1996

Seoul National University, Korea

**Professional Positions**

08/16

- Present: Professor, Department of Human Nutrition, Food, & Animal Sciences, University of Hawaii

01/18 – 12/18: Interim Department Chair, Department of Human Nutrition, Food, & Animal Sciences, University of Hawaii

06/12 – 07/16: Associate Professor, Department of Human Nutrition, Food, & Animal Sciences, University of Hawaii

01/06 – 05/12: Assistant Professor, Department of Human Nutrition, Food, & Animal Sciences, University of Hawaii

07/04 - 12/05: Postdoctoral Researcher, Department of Food, Agricultural & Biological Engineering, The Ohio State University

07/02 - 06/04: Postdoctoral Researcher, Department of Agricultural & Biological Engineering, The Pennsylvania State University

01/99 - 06/02: Research Assistant, Department of Agricultural & Biological Engineering, The Pennsylvania State University

**Courses Taught**

FSHN 411 – Food Engineering

FSHN 445 – Food Quality Control

FSHN 460 – Food Process Operations

FSHN 608 – Advanced Food Science II

**Publications**

**Books Edited**

**Jun, S.** and Irudayaraj, J. (Editors) 2008. *Food Processing Operations and Modeling: Design and Analysis*, 2nd edition. CRC/Taylor & Francis, NY (355 pages) [80%]

**Book Chapters Published**

1. Kang, T., **Jun, S.**, 2021. 1.42 Fundamentals of Ohmic Processing: Modeling and Commercial Applications. In: Knoerzer, K., Muthukumarappan, K. (Eds.), Innovative Food Processing Technologies: A Comprehensive Review, Vol. 1. Elsevier, pp. 689–698. https://doi.org/B978-0-12-815781-7.00004-4.
2. Rungraeng, N., & **Jun, S.** 2013. Carbon nanotubes-polytetrafluoroethylene nanocomposite coatings. Chapter 3, In Mittal, V. (Ed.). Polymer Nanocomposite Coating. CRC Press. Boca Raton, FL. [30%]
3. Ramaswamy, R., Krishnamurthy, K., and **Jun, S.** 2011. Food Decontamination by Infrared Heating, In: A. Demirci & M. Ngadi, ed. Microbial Decontamination in the Food Industry: Novel Methods and Applications, Woodhead Publishing [20%]
4. **Jun, S.,** Krishnamurthy, K., Irudayaraj, J. and Demirci, A. 2010. Chapter 1, Fundamentals and theory of infrared radiation, In: Z. Pan, ed. *Infrared Heating for Food and Agricultural Processing*, CRC/Taylor & Francis pp 1-17 [60%]
5. Krishnamurthy, K., **Jun, S.,** Irudayaraj, J., and Demirci, A. 2010. Chapter 11, Food Safety Improvement, In: Z. Pan, ed. *Infrared Heating for Food and Agricultural Processing*, CRC/Taylor & Francis pp 225-235 [25%]
6. Krishnamurthy, K., Khurana, H.K., **Jun, S.**, Irudayaraj, J., and Demirci, A. 2008. Chapter 5, Infrared Radiation for Food Processing, In: *Food Processing Operations and Modeling: Design and Analysis*, CRC/Taylor & Francis [25%]
7. **Jun, S.** and Sastry, S.K. 2008. Chapter 6, Modeling of Ohmic Heating of Foods, In: *Food Processing Operations and Modeling: Design and Analysis*, CRC/Taylor & Francis [80%]
8. Balasubramanian, S., Puri, V.M., and **Jun, S.** 2008. Chapter 9, Fouling Model for Heat Exchangers, In: *Food Processing Operations and Modeling: Design and Analysis*, CRC/Taylor & Francis [25%]
9. Pandit, R.B., Somavat, R., **Jun, S.**, Heskitt, B., and Sastry, S.K. 2007. Development of a Light Weight Ohmic Food Warming Unit for a Mars Exploration Vehicle. *World of Food Science*. Volume 2: Food and Space pp. 1-15 [20%]
10. **Jun, S.** and Puri, V.M. 2006. Chapter 17 - Plate Heat Exchanger: Thermal and Fouling Analysis, In: Da-Wen Sun, ed. *Computational Fluid Dynamics in Food Processing*, CRC Press, pp 417-431 [70%]
11. **Jun, S.**, Yu, C., and Irudayaraj, J. 2006. Food Processing Methods, In: K.C. Ting, D. H. Fleisher, & L. F. Rodriguez, ed. *Systems Analysis and Modeling in Food and Agriculture,* Encyclopedia of Life Support Systems (EOLSS) [40%]

**Refereed Papers**

1. You, Y., Muci, L., and **Jun, S.** 2020. Application of supercooling for enhanced shelf life of asparagus (*Asparagus officinalis, L*.). *Journal of Food Process Engineering* (Submitted) [30%]
2. Lee, B.E. and **Jun, S.**. 2020. A single walled carbon nanotubes (SWCNTs)-based electrochemical impedance immunosensor for on-site detection of listeria monocytogenes. *Journal of Food Science* (Submitted) [40%]
3. Kang, T. and. **Jun, S.** 2020. Effects of oscillating magnetic field on the inhibition of ice nucleation and its application for supercooling preservation of fresh-cut mango slices. *Journal of Food Engineering* (In Review) [40%]
4. Kang, T., Shafel, T., Lee, D., Lee, C.J., Lee, S.H., and **Jun, S.** 2020. Quality retention of fresh tuna stored using the supercooling technology. Foods 9(10): 1356; <https://doi.org/10.3390/foods9101356> [40%]
5. Kang, T. Hoptowit, R., and. **Jun, S.** 2020. Effects of an oscillating magnetic field on ice nucleation in aqueous iron‐oxide nanoparticle dispersions during supercooling and preservation of beef as a food application. *Journal of Food Process Engineering https://doi.org/10.1111/jfpe.13525* [30%]
6. Ban, G., Li, Y., Wall, M.M., and **Jun, S.** 2020. Nano-engineered stainless steel surface to combat bacterial attachment and biofilm formation. *Foods* 9(11), 1518; <https://doi.org/10.3390/foods9111518>. [30%]
7. Lee, B. E., You, Y., Choi, W., Hong, E., Wall, M. M. and **Jun, S.** 2020. Nanoengineered superhydrophobic surfaces to prevent the adhesion of *Listeria monocytogenes* for improved food safety. *Transaction of the ASABE* 63(5): 1401-1407 [30%]
8. You, Y., Kang, T., and **Jun, S.**. 2020. Control of Ice Nucleation for Subzero Food Preservation. *Food Engineering Reviews* https://doi.org/10.1007/s12393-020-09211-6 [30%]
9. Kang, T., You, Y., and. **Jun, S.** 2020. Supercooling preservation technology in food and biological samples: A review focused on electric and magnetic field applications. *Food Science and Biotechnology* 29: 303–321 [30%]
10. Choi W., Min, Y. W., Lee, K. Y., **Jun, S.** and LeeH. G. 2020. Dielectrophoresis-based microwire biosensor for rapid detection of Escherichia coli K-12 in ground beef. *LWT - Food Science and Technology* https://doi.org/10.1016/j.lwt.2020.109230 [10%]
11. You, Y., Her, J.Y., Shafel, T., Kang, T. and **Jun, S**. 2020. Supercooling Preservation on Quality of Beef Steak. *Journal of Food Engineering* 274*,* 109840https://doi.org/10.1016/j.jfoodeng.2019.109840 [30%]
12. Kang, T., Her, J., Hoptowit, R., Wall, M. M., and **Jun, S.** 2019. Investigation of the effect of oscillating magnetic field on fresh-cut pineapple and agar gel as a model food during supercooling preservation. *Transaction of the ASABE* 62(5):1155-1161 [30%]
13. Lee, J., Jiang, Y., Ban, G.H., Hizal, F., **Jun, S.**, and Choi, C. 2019. Durable Omniphobicity of Oil-Impregnated Anodic Aluminum Oxide Nanostructured Surfaces. *Journal of Colloid and Interface Science* 553: 734-745. [10%]
14. Jenkins, D.M., Lee B.E., **Jun, S**., Reyes-De-Corcuera, J., and Eric S. McLamore. 2019. ABE-Stat, a Fully Open-Source and Versatile Wireless Potentiostat Project Including Electrochemical Impedance Spectroscopy. *Journal of The Electrochemical Society* 166 (9) B3056-B3065. [10%]
15. Her, J.Y., Kang, T., Hoptowit, R., and **Jun, S.** 2019. Supercooling of fresh-cut honeydew melon: Oscillating magnetic field (OMF) effect. *Transaction of the ASABE* 62(3): 779-785.

[30%]

1. Ban, G., Rungraeng, N, Li, Y. and **Jun, S.** 2018. Nanoporous stainless steel surfaces for anti-bacterial adhesion performances. *Transaction of the ASABE* 61(3): 1-5. [30%]
2. Hizal, F., Rungraeng, N., Lee, J., **Jun, S.**, Busscher, H., van der Mei, H.C., and Choi, C. 2017. Nanoengineered Superhydrophobic Surfaces of Aluminum with Extremely Low Bacterial Adhesivity. *ACS Applied Materials & Interfaces* 9(13): 12118-12129. [10%]
3. Ban, G.H., Lee, J., Choi, C., and **Jun, S.** 2017. Nano-patterned aluminum surface with oil-impregnation for the improved antibacterial performance *LWT – Food Science and Technology* 84: 359-363 [30%]
4. Cebricos, J., Hoptowit, R., and **Jun, S.** 2017. Separation of *Escherichia coli* K12 from contaminated tap water using a single-stage, continuous flow dielectrophoresis (DEP) device. *LWT – Food Science and Technology* 80: 185-192 [40%]
5. Mok, J.H., Her J., Kang T., Hoptowit, R., and **Jun, S.** 2017. Effects of pulsed electric field (PEF) and oscillating magnetic field (OMF) combination technology on the extension of supercooling for chicken breasts. *Journal of Food Engineering* 196: 27-35 [50%]
6. Lee S.H., Park, J. G., Lee, D. Y., Kandpal, L. M., Cho, B., Hong, S., and **Jun, S.** 2016. Drying Characteristics of Agricultural Products under Different Drying Methods: A Review. *Journal of Biosystems Engineering* 41(4): 389-395 [20%]
7. Lee, I. and **Jun, S.** 2016. Simultaneous detection of E. coli K12 and S. aureus using a Continuous Flow Multijunction Biosensor. *Journal of Food Science* 81(6): N1530-6 [50%]
8. Choi, W., Abdullah, S., Lee, S.H., and **Jun, S.** 2016. Mathematical Modeling and Numerical Simulation for Predictive Retention of Antioxidant Activity of Grape Juice Pasteurized with Continuous Flow Ohmic Heating. *Transaction of the ASABE* 59(3): 1049-1059 [50%]
9. Lee, S.H. and **Jun, S.** 2016. Conventional and Emerging Combination Technologies for Food Processing. *Food Engineering Review* 8(4): 414-434 [50%]
10. Yamada, K., Choi W., Lee, I., Cho, B., and **Jun, S.** 2015. Rapid detection of multiple foodborne pathogens using a nanoparticle-functionalized multi-junction biosensor. *Biosensors and Bioelectronics* 77:137 - 143 [50%]
11. Mok, J.H., Choi, W., Park, S.H., Lee, S.H., and **Jun, S.** 2015. Emerging pulsed electric field (PEF) and static magnetic field (SMF) combination technology for food freezing. *International Journal of Refrigeration* 50: 137-145 [50%]
12. Choi, W., Lee, S.H., Kim, C., and **Jun, S.** 2015. A finite element method based flow and heat transfer model of continuous flow microwave and ohmic combination heating for particulate foods. *Journal of Food Engineering* 149: 159-170 [60%]
13. Lee, S.H., Choi, W., Kim, J., and **Jun, S.** 2015. Development of a dual cylindrical microwave and ohmic combination heater for minimization of thermal lags in the processing of particulate foods. *LWT- Food Science and Technology* 63(2): 1220-1228 [60%]
14. Shafel, T., Lee, S.H., and **Jun, S.** 2015. Food preservation technology at subzero temperatures: A review. *Journal of Biosystems Engineering* 40(3): 261-270 [60%]
15. Lee, S.H., Choi, W., Park, S.H., and **Jun, S**. 2015. Design and Fabrication of a Dual Cylindrical Microwave and Ohmic Combination Heater for Processing of Particulate Foods. *Journal of Biosystems Engineering* 40(3): 250-260 [50%]
16. Park, S.H. and **Jun, S.** 2015. Practical estimation of in situ physical properties of foods under high pressure. *Food Science and Biotechnology* 24(3): 777-782 [40%]
17. Chee, G., Shafel, T., Park, S.H., and **Jun, S.** 2015. Pulsed-CO2 Laser Beam Photothermal Technology Combined with Conjugated Gold Nanoparticles for the Selective Elimination of Surface *E. coli* K12 from Fresh Fruits. *Journal of Food Process Engineering* 38(5): 437-444 [60%]
18. Yamada, K., Kim, C., Kim, J., Chung, J., Lee, H.G., and **Jun, S.** 2014. Single Walled Carbon Nanotube-Based Junction Biosensor for Detection of *Escherichia coli*. *Plos One* 9(9): e105767 <http://www.plosone.org/article/info%3Adoi%2F10.1371%2Fjournal.pone.0105767> [50%]
19. Rungraeng, N., Yoon, S.H., and **Jun, S.** 2014. Development of a Self-Slippery Liquid-Infused Porous Surface (SLIPS) Coating Using Carbon Nanotube Composite for Repelling Food Debris and Microbial Biofilms. *Transactions in the ASABE* 58(3): 861-867 [60%]
20. Chee, G., Rungraeng, N., Han, J.H., and **Jun, S.** 2014. Electrochemical impedance spectroscopy as an alternative to determine dielectric constant of potatoes at various moisture contents. *Journal of Food Science* 79(2): E195-201 [50%]
21. Yoon, S.H., Rungraeng, N., Song, W., and **Jun, S.** 2014. Superhydrophobic and superhydrophilic nanocomposite coatings for preventing bacterial adhesion on food contact surface. *Journal of Food Engineering* 131: 135-141 [50%]
22. Lee, S.H., Yamada, K., and **Jun, S.** 2013. Ultraviolet Radiation Assisted with Ohmic Current for Microbial Inactivation in Apple Juice. *Transactions of the ASABE* 56(3): 1085-1091 [60%]
23. Abdullah, S., Lee, S.H., Cho, I., Choi, W., and **Jun, S.** 2013. Pasteurization of Kava Juice using Novel Continuous Flow Microwave Heating Technique. *Food Science and Biotechnology* 22(4): 961-966 [50%]
24. Choi, W and **Jun, S.** 2013. Measurement of structural shrinkages of freeze dried chipping potatoes for crack modeling. *Food Science and Biotechnology* 22(4): 967-972 [70%]
25. Nguyen, L.T., Choi W., Lee, S.H., and **Jun, S.** 2013. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. *Journal of Food Engineering* 116(1): 65-71 [60%]
26. Lu, L. Chee, G., Yamada, K., and **Jun, S.** 2013. Electrochemical impedance spectroscopic technique with a functionalized microwire sensor for rapid detection of foodborne pathogens. *Biosensors and Bioelectronics* 42: 492-495 [60%]
27. Choi, W., **Jun, S.,** Nguyen, L.T., Rungraeng, N., Yi, H., Balasubramanian, S., Puri, V.M., and Lee, J. 2013. 3-D Milk Fouling Modeling of Plate Heat Exchangers with Different Surface Finishes using Computational Fluid Dynamics Codes. *Journal of Food Process Engineering* 36(4): 439-449 [30%]
28. Puligundla, P., Abdullah, S.A., Choi, W., **Jun, S.**, Oh, S., and Ko, S. 2013. Potentials of Microwave Heating Technology for Select Food Processing Applications - a Brief Overview and Update. Journal of Food Processing Technology 4: 278.
29. Lu, L. and **Jun, S.** 2012. Evaluation of a microwire sensor functionalized to detect Escherichia coli bacterial cells. *Biosensors and Bioelectronics* 36(1): 257-261 [70%]
30. Rungraeng, N., Cho, Y., Yoon, S., and **Jun, S.** 2012. Carbon nanotube-polytetrafluoroethylene nanocomposite coating for milk fouling reduction in plate heat exchanger. *Journal of Food Engineering* 111(2): 218-224 [60 %]
31. Choi, W., Nguyen, L.T., Lee, S.H., and **Jun, S.** 2011.A Microwave and Ohmic Combination Heater for Uniform Heating of Liquid-Particle Food Mixture. *Journal of Food Science* 76(9): E576–E585 [60%]
32. Kim, S., Lu, L., Chung, J., Lee, K.H., Li, Y., and **Jun, S.** 2011. A Microwire Sensor for Rapid Detection of *Escherichia coli* K-12 in Fresh Produce. *Innovative Food Science and Emerging Technologies* 12(4): 617-622 [60%]
33. Lee, S.H. and **Jun, S.** 2011. Enhancement of Sugar Release from Taro Waster using Ohmic Heating and Microwave Heating Techniques. *Transactions of the ASABE* 54(3): 1041-1047 [70%]
34. Cho, I.K., Kim, S.K., Khurana, H.K., Li, Q.X., and **Jun, S.** 2011. Quantification of Trans Fatty Acids Content in French Fries of Local Food Services using Attenuated Total Reflection-Fourier Transform Infrared Spectroscopy. Food Chemistry 125(3): 1121-1125 [60%]
35. Wang, J., Kim, S., Kim, K.H., Kim, Y., Li, Q.X., and **Jun, S.** 2010. Simple Quantitative analysis of *Escherichia coli* K-12 internalized in Baby Spinach using Fourier-Transform Infrared Spectroscopy. *International Journal of Food Microbiology* 144(1): 147-151 [50%]
36. Wang, J., Kliks, M.M., **Jun, S.**, and Li, Q.X. 2010. Residues of Organochlorine Pesticides in Honeys from Different Geographic Regions. *Food Research International* 43: 2329-2334 [20%]
37. Wang, J., Kliks, M., **Jun, S.**, and Li, Q.X. 2010. Residues of Polybrominated Diphenyl Ethers in Honeys from Different Geographic Regions. *Journal of Agricultural and Food Chemistry* 58(6): 3495-3501 [20%]
38. Wang, J., Qu, W.Y., **Jun, S.**, Bittenbender, H.C., and Li, Q.X. 2010. Rapid Determination of Six Kavalactones in Kava Root and Stem Samples using Fourier Transform Infrared Spectroscopy and Multivariate Analysis in Comparison with Gas Chromatography. *Analytical Methods* 2: 492-498 [30%]
39. Shim J.Y., Lee, S.H., and **Jun, S.** 2010. Modeling of Ohmic Heating Patterns of Multiphase Food Products using Computational Fluid Dynamics Codes. *Journal of Food Engineering* 99(2): 136-141 [70%]
40. Wang, J., Kliks, M., **Jun, S.**, Jackson, M., and Li, Q.X. 2010. Rapid Analysis of Glucose, Fructose, Sucrose, and Maltose in Honeys with Different Floral Sources and Geographical Regions using Fourier Transform Infrared Spectroscopy and Multivariate Analysis. *Journal of Food Science* 75(2): C208-214 [40%]
41. Sastry, S.K., **Jun, S.**, Somavat, R., Samaranayake, C., Yousef, A., and Pandita, R.B. 2009. Heating and Sterilization Technology for Long-duration Space Missions Transport Processes in a Reusable Package, Interdisciplinary Transport Phenomena: *Ann. N.Y. Acad. Sci.* 1161: 562–569 [20%]
42. Wang, J., Kliks, M., Qu, W., **Jun, S.**, Shi, G., and Li, Q.X. 2009. Rapid Determination of the Geographical Origin of Honey based on Protein Fingerprinting and Barcoding Using MALDI TOF MS. *Journal of Agricultural and Food Chemistry* 57: 10081-10088 [25%]
43. Wang, J., **Jun, S.**, and Li, Q.X. 2009. Rapid Analysis of Melamine Content in Powdered and Liquid Milk using Fourier Transform Infrared Spectroscopy. *Food Science and Biotechnology* 18(5): 1199-1203 [60%]
44. Wang, J., **Jun, S.**, Bittenbender, H.C., Gautz, L., and Li, Q.X. 2009. Fourier Transform Infrared Spectroscopy for Kona Coffee Authentication. *Journal of Food Science* 74(5): C385-C391 [60%]
45. Krishnamurthy, K., **Jun, S.**, Irudayaraj, J., and Demirci, A. 2008. Efficacy of Infrared Heat Treatment for Inactivation of *Staphylococcus aureus* in Milk. *Journal of Food Process Engineering* 31(6): 798-816 [40%]
46. Khurana, H.K., **Jun, S.**, Cho, I.K., and Li, Q.X. 2008. Rapid Determination of Sugars in Commercial Fruit Yogurts and Yogurt Drinks using Fourier Transform Infrared Spectroscopy and Multivariate Analysis. *Applied Agriculture in Engineering* 24(5): 631-636 [60%]
47. Khurana, H.K., Shim, J.Y., **Jun, S.**, Cho, I.K., and Li, Q.X. 2008. Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy coupled with Multivariate Analysis for Measurement of Acesulfame-K in Diet Foods. *Journal of Food Science* 73(5): c426-c431 [60%]
48. Khurana, H.K., Cho, I.K., **Jun, S.**, Shim, J.Y., and Li, Q.X. 2008.Application of Multi Bounce Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy and Chemometrics for Rapid Determination of Aspartame in Soft Drinks. *Journal of Agriculture and Food Chemistry* 56:778-789 [70%]
49. Krishnamurthy, K., Khurana, H.K., **Jun, S**., Irudayaraj, J., and Demirci, A. 2008. Infrared Heating in Food Processing: An Overview. Comprehensive Reviews in Food Science and Food Safety 7(1):2-13 [60%]
50. **Jun, S.**, Sastry, S.K., and Samaranayake, C. 2007.Migration of Electrode Components during Ohmic Heating of Foods in Retort Pouches. *Innovative Food Science and Emerging Technologies* 8(2): 237-243 [80%]
51. **Jun, S.** and Sastry, S.K. 2007. Reusable Pouch Development for Long Term Space Mission: 3D Ohmic Model for Verification of Sterility Efficacy. *Journal of Food Engineering* 80(4): 1199-1205 [80%]
52. **Jun, S.** and Puri, V.M. 2006. A 2D Dynamic Model for Fouling Performance of Plate Heat Exchangers. *Journal of Food Engineering* 75:364-374 [80%]
53. **Jun, S.,** Puri, V.M. and Chun J.K. 2006. Potential Milk Fouling Area in Plate Heat Exchangers. *Food Engineering Progress* 10(1): 6-13 [80%]
54. **Jun, S.** and Sastry, S.K. 2005. Modeling and Optimizing of Pulsed Ohmic Heating of Foods inside the Flexible Package. *Journal of Food Process Engineering* 28: 417-436 [80%]
55. **Jun, S.** and Puri, V.M. 2005. 3D Fouling Model of Plate Heat Exchangers using Computational Fluid Dynamics. *International Journal of Dairy Technology* 58(4):214-224 [80%]
56. **Jun, S.** and Puri, V.M. 2005. Fouling Model for Heat Exchangers in Food Processing: A Review. *Journal of Food Process Engineering* 28: 1-34 [80%]
57. **Jun, S.** and Puri, V.M. 2004. Development of Interactive Computational Model of Temperature and Moisture Distributions of Microwaved Foods. *Applied Engineering in Agriculture* 20(5): 677-682 [80%]
58. **Jun, S.** and Irudayaraj, J. 2004. Explore the Mechanism of Selective Infrared Heating on Disinfection of Fungal Spores. *Applied Engineering in Agriculture* 20(4): 481-485 [80%]
59. **Jun, S.**, Puri, V.M., and Roberts, R.F. 2003. A Dynamic Model for Thermal Performance of Plate Heat Exchangers. *Transactions of the ASAE* 47(1): 213-222 [70%]
60. **Jun, S.** and Irudayaraj, J. 2003. Selective Far Infrared Heating System - Design and Evaluation (Part I). *Journal of Drying Technology* 21(1):51-67 [80%]
61. **Jun, S.** and Irudayaraj, J. 2003. Selective Far Infrared Heating - Spectral Manipulation (Part II). *Journal of Drying Technology* 21(1):69-82 [80%]
62. **Jun, S.** and Irudayaraj, J. 2003. A Dynamic Fungal Inactivation Approach using Selective Infrared Heating. *Transactions of the ASAE* 46(5):1407-1412 [80%]
63. **Jun, S.**, Irudarayaj, J., Demirci, A., and Geiser, D. 2003. Pulsed UV-light Treatment of Corn meal for Inactivation of *Aspergillus niger* Spores. *International Journal of Food Science and Technology* 38:1-6 [70%]
64. Ranjan, R., Irudayaraj, J., and **Jun, S.** 2002. Simulation of Infrared Drying Process. *Journal of Drying Technology* 20(2):363-379 [30%]
65. Ranjan, R., Irudayaraj, J., and **Jun, S.** 2002. Simulation of Three-Dimensional Infrared Drying using a set of Three-coupled Equations by the Control Volume method. *Transactions of the ASAE* 45(5): 1661-1668 [30%]
66. Ranjan, R., Irudayaraj, J., and **Jun, S.** 2001. A Three-Dimensional Control Volume Approach to Modeling Heat and Mass Transfer in Foods Materials. *Transactions of the ASAE* 44(6): 1975-1982 [30%]
67. **Jun, S.** and Chun J.K. 1998. Design of U-column Microwave-Assisted Extraction System and its Application to Pigment Extraction from Food. *Food and Bioproducts Processing* 76 (C4): 231-236 [80%]
68. **Jun, S.**, Moon, T.W., and Chun, J.K. 1998. Flow Characteristics in Packed bed of Cape Jasmine powders in U-column Microwave Assisted Extraction System. *Food Engineering Progress* 2(1): 55-62 [70%]

**Other Publications**

1. **Jun, S.,** Cox, L.J., and Huang, A. 2006. Using the flexible retort pouch to add value to agricultural products. Cooperative Extension Service, CTAHR, University of Hawaii at Manoa, Food Safety and Technology, FST-18, 6 pp. June.

**Patents**

1. **U.S. Patent** No. 9,259,121, Ohmic Heating Packet. Awarded on February 16, 2016
2. Provisional 61829994, Hybrid microwave and ohmic combination technology for thermal uniformity of particulate foods. Provisional patent application filed on May 31, 2013
3. **U.S. Patent** No. 10,111,452, Method of Supercooling Perishable Materials. Awarded on October 30, 2018
4. **Japan Patent** No. JP6545171B2 Supercooling method of perishable material, Awarded on July 17, 2019
5. **Korea Patent** No. KR102025978B1 Method of supercooling perishable materials, Awarded on September 26, 2019

**Leadership Roles**

#### Engagement/Technology transfer/Service

Industrial Interactions

1. Nomadics, Inc. (Oklahoma City, OK) 2008
   * *E. coli* quantification using the surface plasmon resonance (SPR) biosensor
   * Research equipment evaluation
2. Hawaiian Host, Inc. 2007 – Present
   * Field trips for FSHN 411 and 460
3. Hanalei Taro & Juice Co. 2008 – Present
   * Taro skin wastes for Bioethanol production
4. NanoFacture, Inc. (Ann Arbor, MI) 2008
   * Design of nanowire sensor for microbial detection
5. Nanolab, Inc. (Newton, MA) 2007
   * Development of carbon nanotube coating technique
6. Reichert, Inc. (Depew, NY) 2007
   * Biosensor development
7. OmegaPiezo Technologies, Inc. (State College, PA) 2007
   * Design of SPR biosensor with carbon nanotube platform
8. Sensient Flavors LLC (Indianapolis, IN) 2010
   * Tropical flavor development
9. CJ CheilJedang Corporation (Seoul, South Korea) 2010 - Present
   * Ohmic heating
10. LG Electronics (Seoul, South Korea) 2012 - Present
    * Food freezing and supercooling
11. Samsung Electronics (Seoul, South Korea) 2014 - Present
    * Food freezing and supercooling
12. Oceanit (Honolulu) 2010 - Present
    * Multi-microwire biosensors
13. Haier Electronics (Qingdao, China) 2017 – Present
    * Food freezing and supercooling

Journal Review (~10 review requests per year)

1. Food and Bioprocess Technology
2. Colloids and Surfaces B: Biointerfaces
3. Journal of Agricultural and Food Chemistry
4. Journal of Food Engineering
5. Appetite
6. Journal of Food Process Engineering
7. International Journal of Food Science and Technology
8. Food Science and Biotechnology
9. Journal of Food Science
10. Innovative Food Science and Emerging Technologies
11. Food Chemistry
12. Biosensor and Bioelectronics
13. International Journal of Biological Macromolecules
14. International Journal of Agricultural and Biological Engineering

Services to the Department

1. Graduate Chair on Food Science Graduate Program (2020 – Present)
2. Chair on HNFAS Curriculum Committee (2020 – Present)
3. Interim Department Chair (2018- 2019)
4. Chair on HNFAS Curriculum Committee (2016 – 2018)
5. Search committee chair for HNFAS assistant professor position (Food Scientist) (2017)
6. Acting Chairs (3-4 times annually)
7. Food Science Undergraduate Option Advisor (2012 - Present)
8. FSHN Curriculum Committee (2010 – 2017)
9. Intercollege Nutrition PhD Executive Committee (2014)
10. FSHN Council Advisor (2006 – Present)
11. Departmental Promotion Committee (2014 – Present)
12. Development of 3+2 program between Hunan Agricultural University (HAU) in China and UHM (2015)
13. Establishment of a new Culinology program (2015)
14. Departmental instruction committee (2008 – 2017)
15. HNFAS Policies and Procedure committee (2006)
16. Volunteered nameplate project (2006)
17. Departmental coordinator for Aloha United Way (AUW) (2007 -2010)
18. Freeze dryer replacement project (2006 -2007)

Services to the College

1. CTHAR Senate Research Committee (2020 – Present)
2. Search committee for Associate Dean for Research, CTAHR (2018)
3. Teaching exchanging program with Hunan Agricultural University (May 16 – 27, 2016)
4. Panel for 2015 CTAHR New Faculty Orientation (August 18, 2015)
5. CTAHR Scholarship Selection Committee (2013- Present)
6. MOU with other institutions
   * College of Agriculture and Life Science, Chungnam National University, Korea, 2015
   * College of Human Ecology, Hanyang University, Korea, 2014
   * College of Life Sciences, Sejong University, Korea, 2014
   * Korea Food Research Institute, Korea, 2011
7. Planning committee for CTAHR/COE Student Research Symposium (2014- Present)
8. CTAHR Lab tours
   * For legislators and UH Regents in 2015
   * For Richard Lim and Karl Fooks (Department of Business, Economic

Development & Tourism (DBEDT)) in 2013

* + For DBEDT, Office of State Planning, and Hawaii Department of Agriculture

(HDOA) in 2012

1. Judge on CTAHR Student Research Symposium (2007 – Present)
2. UH Business Plan Competition (Won the 2nd place) (2015)
3. Science Symposium for Girls in Grades 5 -8 (2015)
4. Member of the CTAHR instruction committee (2007-2009)

Services to the University

1. Manoa Faculty Senate (2015 - 2016)
   * Committee on ​Athletics (2015)
   * Committee on Academic Policy and Planning (2016)
2. XLR8UH Proof of Concept Center (2015)
3. Summer Study Abroad Program (Lillle, France, 2016 and 2017)
4. UH-AUW charity softball tournament (September 29, 2006)

Services to the Community

1. Founder of JUN INNOVATIONS INC (2014 – Present)
2. Counselor, Development of Maui Food Innovation Center (2012)
3. Participated in SBIR projects with farmers and food manufacturers (Hawaii Fish Company, Hoku Products Pacific, and Frank’s nursery)
4. Worked with Hawaiian Host (Product development and sensory testing, 2009)
5. Worked with Kona coffee farmer association (Authentication of pure Kona coffee)
6. Worked with Big Island Abalone (Retort pouch study to enhance the shelf life of abalone)

Services to the Professional Societies

1. A host of NC 1023 annual meeting, Honolulu, HI (2011)
2. Elected member-at-large, Food Engineering Division, IFT (2011- 2012)
3. Secretary of the Hawaii Section of IFT (HIFT, 2009 – Present)
4. Korean-American Food Technologists Association (KAFTA)
   * Vice-president (2009 – 2010)
   * President (2011)
5. Korean Faculty Association in University of Hawaii (KFAUH)
   * Secretary (2010 - 2014)
   * President (2014 – Present)
6. Judge for Hawaii State Science & Engineering Fair (2008 – Present)
7. Editorships
   * Journal of Food Science and Biotechnology (2006 – Present)
   * Food Engineering Progress (2006 – Present)
   * International Journal of Agricultural and Biological Engineering (2012 – Present)
8. NC1023, Multistate project meeting
   * Secretary (2013)
   * Vice Chair (2014)
   * Chair (2015)
9. Organizer of USDA NIFA/AFRI Project Director’s Meeting: Function and Efficacy of

Nutrients, Bioactive Components of Foods, Improved Processing Technologies, Improving Food Quality and Value, and Reducing Food Allergies by Improving Food Quality, Chicago (2015) and Las Vegas (2017)

#### Research Grants

Grants Funded

1. 2021, USDA/NIFA, AFRI, Electric and magnetic field-based supercooling technology to ensure the freshness in the food supply chain, **Primary Investigator (PI): Soojin Jun**, Co-PIs: Kacie Ho and Yong Li, Amount: **$481,960**, Duration: 01/21 – 12/23
2. 2018, USDA-ARS NACA Post Harvest Technology and Nutrition Studies for Hawaii Specialty Crops and Fruits, Develop Novel Processing Technologies, **Primary Investigator (PI): Soojin Jun**, Amount: **$90,303**, Duration: 09/18 – 08/22
3. 2018, CTAHR Supplement Funds, Long-term Fresh Preservation of Highly Perishable Foods (Tropical Fruits and Fish) using the Supercooling Technology, **Primary Investigator (PI): Soojin Jun**, Amount: **$80,000**, Duration: 10/18 – 09/20
4. 2016, CTAHR Supplement Funds, Rapid and Multiplexed Detection of Foodborne Pathogens Using an Electrochemical Immunosensor Modified with Single-walled Carbon Nanotubes, **Primary Investigator (PI): Soojin Jun**, Amount: **$63,000**, Duration: 10/16 – 09/18
5. 2015, USDA/NIFA, AFRI, Prevention of Microbial Adhesion in Food Processing Environment using Multifunctional Nanopillared Surfaces, **Primary Investigator (PI): Soojin Jun**, Co-PIs: Chang-Hwan Choi and Yong Li, Amount: **$499,516**, Duration: 01/15 – 12/17
6. 2014, CTAHR Supplement Funds, Multistage dielectrophoresis (DEP) for macro-scale bacterial cell separation in drinking water, **Primary Investigator (PI): Soojin Jun**, Co-PI: Yong Li, Amount: **$57,110**, Duration: 09/14 – 08/16
7. 2014, Buster Co. South Korea, Investigation and Development of Globalized Functional Wellness Food Products to be Value-added, Based on Tropical Fruits and Plants, **Primary Investigator (PI): Soojin Jun**, Amount: **$20,466**, 2 years
8. 2013, USDA/NIFA, AFRI, Novel Freezing Technique using Combined Pulsed Electric and Magnetic Fields to Maintain the Qualities of Fresh Fruits and Vegetables, **Primary Investigator (PI): Soojin Jun**, Co-PI: Peter Berkelman, Amount: **$475,370**, Duration: 12/13 – 11/16
9. 2013, CTAHR Supplement Funds, Pulsed laser beam photothermal technology for selective elimination of foodborne pathogens from fresh fruits and liquid foods using conjugated gold nanoparticles, **Primary Investigator (PI): Soojin Jun**, Co-PI: Yong Li, Amount: **$44,000**, Duration: 01/13 – 08/14
10. 2013, CTAHR Research Instrumentation Award, Nanofabrication for Bio-Nano Sensing and Anti-Biofilm Surface Coating, **Primary Investigator (PI): Soojin Jun**, Amount: **$40,000**

Purpose: To purchase nano research associated equipment including Chemical Vapor Deposition (CVD) and Atomic Force Microscopy (AFM)

1. 2012, Korea Food Research Institute, High wear and biofouling resistant nanoparticle-polymer composite coating for food processing, **Primary Investigator (PI): Soojin Jun**, Amount: **$100,000**, Duration: 2/12 – 8/14
2. 2011, CTAHR Catalyst Funds, Aligned Carbon Nanotubes for Biosensing of Foodborne Pathogens in Foods, **Primary Investigator (PI): Soojin Jun**, Co-PI: Yong Li, Amount: **$135,000**, Duration: 04/11 – 08/13
3. 2011, CTAHR Research/Extension Supplemental Funds, Detection of *E. coli* 0157:H7 using a Nanoneedle Probe Biosensor, **Primary Investigator (PI): Soojin Jun**, Amount: **$24,000**, Duration: 01/11 – 09/12
4. 2009, USDA-AFRI, Development of Combined Continuous-Flow Microwave and Pulsed Ohmic Heating Technologies for Rapid and Uniform Heating of Multiphase Foods, **Primary Investigator (PI): Soojin Jun**, Co-PI: Olga Boric Lubecke, Amount: **$374,798**, Duration: 09/09 – 08/12
5. 2009, USDA, T-STAR, Innovative Nanoparticulate Surface Coating Technology to Minimize Fouling and Electrochemical Reactions during Tropical Juice Pasteurization, **Primary Investigator (PI): Soojin Jun**, Amount: **$124,696**, Duration: 09/09 – 08/11
6. 2008, USDA-Formula, Detection of *E. coli* O157:H7 using a Nanoneedle Probe Biosensor, **Primary Investigator (PI): Soojin Jun**, Co-PIs: Yong Li and Daniel Jenkins, Amount: **$60,000**, Duration: 10/08 – 09/11
7. 2008, USDA-ARS, Pasteurization of Kava Juice using a Novel Continuous Flow Dual Magnetron Microwave System, **Primary Investigator (PI): Soojin Jun**, Co-PI: Yong Li, Amount: **$67,484,** Duration: 09/08 – 08/10
8. 2007, Research Relations Fund Award, University Research Council, Test the Feasibility of Aligned Carbon Nanotube (ACNT) Arrays for Surface Plasmon Resonance (SPR) Immunosensor, **Primary Investigator (PI): Soojin Jun**, Amount: **$5,000**, Duration: 01/08 – 01/09
9. 2007, University Research Council, Faculty Travel Fund Award, **Soojin Jun**, Amount: **$800**

Purpose: Support my trip to attend the annual meeting of Institute of Food Technologists (IFT) in Chicago, IL, 07/27/07 – 08/01/07

1. 2006, Research Relations Fund Award, University Research Council, Innovative Hydrophobic Surface Treatment Technology for Food Processing, **Primary Investigator (PI): Soojin Jun**, Amount: **$5,000**, Duration: 05/06 – 05/07
2. 2006, Hatch Project, Nanoscale Surface Coating Study to Minimize Electrochemical Reaction and Fouling Occurrence during Food Processing, **Primary Investigator (PI): Soojin Jun**, Amount: **$18,672**, Duration: 10/06 – 09/11
3. 2006, University Research Council, Faculty Travel Fund Award, **Soojin Jun**, Amount: **$1,600**

Other Grants

1. 2020, JUN INNOVATIONS INC: R&D contractual agreement with LG Electronics, Supercooling preservation of food materials using pulsed electric and oscillating magnetic fields, **$99,000**, 01/01/20 – 12/31/20.
2. 2017, JUN INNOVATIONS INC: USDA Small Business Innovation Research (SBIR) Phase II, Commercialized Supercooling Technology for Subzero Nonfreezing Preservation of Fresh Foods**, $596,592**, 09/01/17 – 08/31/19.
3. 2018 JUN INNOVATIONS INC: High Technology Development Corp. HSBIR Matching Fund (Phase II), **$100,107,** 03/2018 – 08/2019
4. 2016, JUN INNOVATIONS INC: USDA Small Business Innovation Research (SBIR) Phase I, Design of a Supercooling Device for Extended Shelf Life of Perishable Foods**, $99,468**, 08/15/16 – 05/31/17.
5. 2016 JUN INNOVATIONS INC: High Technology Development Corp. HSBIR Matching Fund (Phase I), **$49,700,** 02/2017 – 05/2017
6. 2015, JUN INNOVATIONS LLC (**Founded by Soojin Jun**): one of 2015 cohorts of XLR8UH, a major commitment to transform the university’s world-class research and talent into viable products and businesses (Phase I, **$25,000**).
7. 2015, PepsiCo, Measurements of dielectric properties of ivory soap and marshmallow at different temperature ranges, **$16,000**, 2 service
8. 2014, PepsiCo, Measurements of dielectric properties of salt samples at different temperature ranges, **$2,000**, 1 service
9. 2010, USDA-SBIR, Phase I, Innovative Marking of Hawaiian Pongee, Primary Investigator (PI): Ronald Weidenbach, **Consultant: Soojin Jun**, Total amount: **$90,000**, Duration: 09/10 – 03/11
10. 2007, Industrial Fund (Grove Farm), Optimization of Processing Techniques for Taro Products in a Production Scale, **Primary Investigator (PI): Soojin Jun**, Amount: **$21,320**, Duration: 10/07 – 02/08
11. 2007, Multistate Project (NC1023), Improvement of thermal and alternative processes for foods, Primary Investigator (PI): Soojin, Amount: **$40,000**, Duration: 10/05 – 09/10

**Conferences**

Conference Abstracts

1. **Jun, S.** 2020. Exploration of combined electric and magnetic field emissions for supercooling preservation of perishable food materials. ICCC 2020 – International IIR Cold Chain Conference, Nantes, France, April 26-28.
2. **Jun, S.** 2019. Study of Subzero Chilling Protocols for Extended Freshness and Shelf Life of Food Materials. 2019 Agricultural Biotechnology Symposium, Engineering Innovations for

Food Processing and Materials, Seoul National University, Korea, November 1.

1. **Jun, S.** 2019. Supercooling Technology for Extended Shelf Life of Perishable Foods, 2019 KFN International Symposium and Annual Meeting, International Convention Center Jeju (ICC Jeju), Jeju, South Korea, October 23 -25.
2. **Jun, S.** 2019. Supercooling Technology for Extended Shelf Life of Perishable Foods, Advances in Food Process Engineering, ICEF13 - 13th International Congress on Engineering and Food, September 23-26, Melbourne, Australia
3. Lee, B. and **Jun, S**. 2019. Microfluidic-based dielectrophoretically trapped electrochemical immunosensor for the detection of bacteriophage MS2 as a foodborne virus surrogate. Institute of Food Technologists, June 2-5, New Orleans, LA (Second place at Division Student Competition)
4. Kang, T., Hoptowit, R., You, Y., Chen, J., Francis, S., and **Jun, S.** 2019. Effect of an external magnetic field on supercooling of water and its application for food preservation. Institute of Food Technologists, June 2-5, New Orleans, LA
5. Francis, S. and **Jun, S.** 2019. Optimization of Magnetic Field in a Solenoid Using “Electromagnetic Works” (EMW) Finite Element Analysis (FEA). Institute of Food Technologists, June 2-5, New Orleans, LA
6. **Jun, S.** 2018. Nano-engineered stainless steel surface to prevent biofilm formation of foodborne pathogens. Conference of Food Engineering (CoFE), September 9-12, Minneapolis, MN
7. **Jun, S.** and Kang, T. 2018. Effect of electric and magnetic field on supercooling of beef steaks with different fat level. Conference of Food Engineering (CoFE), September 9-12, Minneapolis, MN
8. Chun, C., and **Jun, S.** 2018. Removal of *Escherichia coli* K12 from contaminated tap water using a single-stage dielectrophoresis (DEP) device filled with glass beads. Institute of Food Technologists, Chicago, IL (First place at Division Student Competition)
9. Kang, T., Hoptowit, R., Francis, S., and **Jun, S.** 2018. Exploration of electric and magnetic field emissions for supercooling preservation of beef with diverse fat/lean compositions. Institute of Food Technologists, Chicago, IL
10. **Jun, S.** 2018. Nano-engineered surfaces guard against biofouling. Institute of Food Technologists, Chicago, IL
11. Lee, B.E., Lee, I., **Jun, S.** 2018. A portable electrochemical impedance bioaffinity sensor with applied turbulent flow for on-site detection of food pathogens. Institute of Food Technologists, Chicago, IL (Second place at Division Student Competition)
12. Lee, I. and **Jun, S.** 2018. Flow-based dielectrophoretic biosensor for rapid and sensitive detection of bacteriophase MS2 as a foodborne virus surrogate. Institute of Food Technologists, Chicago, IL
13. Ban, G., Li. Y., and **Jun, S.** 2017. Fabrication of nano-engineered stainless steel to prevent biofilm formation of foodborne pathogens, International Association for Food Protection, July 9-12, Tampa, FL
14. Her, J., Kang, T., and **Jun, S.** 2017. Supercooling of fresh-cut honeydew melon: Effect of oscillating magnetic field (OMF). Institute of Food Technologists, Las Vegas, NV.
15. Hoptowit, R. and **Jun, S.** 2017. Design and fabrication of a microcontroller based supercooling control unit for use in food preservation. Institute of Food Technologists, Las Vegas, NV.
16. Kang, T., Hoptowit, R., and **Jun, S.** 2017. Investigation of the effect of oscillating magnetic field on fresh-cut pineapple and agar gel as a model food during supercooling preservation. Institute of Food Technologists, Las Vegas, NV.
17. **Jun, S.** 2016. Nano-engineered surfaces for prevention of biofilm and bacterial adhesion. Conference of Food Engineering (CoFE), September 12-14, Columbus, OH
18. **Jun, S.** 2016. Computational Modeling for Thermal Pattern and Lethality of Multiphase Foods in a Dual Cylindrical Microwave and Ohmic Combination Heater. Conference of Food Engineering (CoFE), September 12-14, Columbus, OH
19. **Jun, S.**, Li, Y., Choi, C., and Her, J. 2016. Nano-engineered Sanitation Surfaces for Prevention of Bacterial Adhesion (ID# 12084) at IAFP 2016, July 31-August 3, 2016 in St. Louis, Missouri
20. Her, J., Hoptowit, R., Kang, T., and **Jun, S.** 2016. Supercooling of perishable foods for extended freshness and shelf life in the cold chain. FOOMA JAPAN International Food Machinery & Technology Exhibition, June 7-10, Tokyo, Japan
21. Lee, S.H. and **Jun, S.** 2015. Computational Modeling for Thermal Pattern and Lethality of Multiphase Foods in a Dual Cylindrical Microwave and Ohmic Combination Heater. The 2015 IFT Annual Meeting, July 11-14, Chicago, IL (031-028)
22. Lee, I. and **Jun, S.** 2015. Multiplexed Detection of Foodborne Pathogens Using a Lateral Flow Type Multi-Junction Biosensor. The 2015 IFT Annual Meeting, July 11-14, Chicago, IL (099-029)
23. Cebricos, J., Hoptowit, R., and **Jun, S.** 2015. Yeast Removal From Beer Using a Continuous Multistage Dielectrophoresis Device. The 2015 IFT Annual Meeting, July 11-14, Chicago, IL (099-041)
24. Rungraeng, N. and **Jun, S.** 2015. Nanoscale Patternings on Stainless Steel Surfaces for Prevention of Bacterial Adhesion. The 2015 IFT Annual Meeting, July 11-14, Chicago, IL (099-100)
25. Shafel, T., Lee, S.H., and **Jun, S.** 2015. Extension of Supercooled State in Beef Steak using Pulsed Electric Fields and Oscillating Magnetic Fields as a Novel Preservation Technique. The 2015 IFT Annual Meeting, July 11-14, Chicago, IL (Second place at Division Student Competition)
26. **Jun, S.** 2015. Single walled carbon nanotube-based junction biosensor for detection of foodborne pathogens. FOOMA JAPAN International Food Machinery & Technology Exhibition, June 9-12, Tokyo, Japan
27. **Jun, S.** 2014. A Finite Element Method Based Flow and Heat Transfer Model of Continuous Flow Microwave and Ohmic Combination Heating for Particulate Foods. FOOMA JAPAN International Food Machinery & Technology Exhibition, June 10-13, Tokyo, Japan
28. Lee, S.H., Choi, W. and **Jun, S.** 2014. Computational Modeling for the Validation of Thermal Sterilization and Heating Profile of Multiphase Foods in a Dual Cylindrical Microwave and Ohmic Combination Heater. The 2014 IFT Annual Meeting, June 21-24, New Orleans, LA (024-120)
29. Lee, I., Choi, W., and **Jun, S.** 2014. Macro-scale cascade dielectrophoresis (DEP) device for continuous flow bacteria cell separation in drinking water. The 2014 IFT Annual Meeting, June 21-24, New Orleans, LA (024-121)
30. Rungraeng, N., Hizal F., Choi, C., and **Jun, S.** 2014. Prevention of microbial adhesion using nano-engineered alumina surfaces. The 2014 IFT Annual Meeting, June 21-24, New Orleans, LA (024-95)
31. Rungraeng, N., Yoon, S.H., and **Jun, S.** 2014. Prevention of Listeria monocytogenes adhesion on food contact surface using easy-to-clean self-slippery cellulose nanofiber coating. The 2014 IFT Annual Meeting, June 21-24, New Orleans, LA (024-93)
32. Shafel, T., Mok, J.H., and **Jun, S.** 2014. Quality factor analysis of a chicken breast maintained at an extended supercooling state. The 2014 IFT Annual Meeting, June 21-24, New Orleans, LA (030-03)
33. Yamada, K. and **Jun, S.** 2014. Multiplexed detection of foodborne pathogens using a single walled carbon nanotube based biosensor. The 2014 IFT Annual Meeting, June 21-24, New Orleans, LA (024-3)
34. Yamada, K. and **Jun, S.** 2014. Single walled carbon nanotube-based junction sensor for detection of Escherichia coli. Conference of Food Engineering, April 7-9, Omaha, NE
35. Lee, S.H. and **Jun, S.** 2014. A Continuous Flow Microwave and Ohmic Combination Heater for Particulate Foods: Design and Modeling Approaches. Conference of Food Engineering, April 7-9, Omaha, NE (2nd Best Graduate Student Presentation Award)
36. Yamada, K and **Jun, S.** 2013. Multi-junction microwire sensor for simultaneous detection of foodborne pathogens. The 2013 IFT Annual Meeting, July 14-16, Chicago, IL (300-02) (Second place at Division Student Competition)
37. Rungraeng, N, Yoon, S.H., and **Jun, S.** 2013. Development of Easy-to-clean Slippery Liquid-infused Carbon Nanotube Composite Structure Coating on Food Contact Surface. The 2013 IFT Annual Meeting, July 14-16, Chicago, IL (031-16) (Third place at Division Student Competition)
38. Lee, S.H., Choi, W., and **Jun, S.** 2013. Continuous Flow, Simultaneous Microwave, and Ohmic Combination Heating Technology for Multiphase foods: Simulation for Thermal Uniformity and Lethal Effectiveness. The 2013 IFT Annual Meeting, July 14-16, Chicago, IL (031-21)
39. Jin, H.K. and **Jun, S**. 2013. Effect of combined pulsed electric field (PEF) and static magnetic field (SMF) on food freezing. The 2013 IFT Annual Meeting, July 14-16, Chicago, IL (031-33)
40. Choi, W., Lee, S.H., and **Jun, S.** 2013. Application of an ohmic thawing unit combined with a microwave heater. The 2013 IFT Annual Meeting, July 14-16, Chicago, IL (031-18)
41. **Jun, S.** 2013. Nano/Microwire-Based electrochemical biosensor for rapid detection of foodborne pathogens. FOOMA JAPAN International Food Machinery & Technology Exhibition, June 11-14, Tokyo, Japan
42. Abdullah, S., Choi, W., and **Jun, S.** 2012. Simulation of Antioxidants Activity of Grape Juice with Continuous Flow Ohmic Heating, The 2012 IFT Annual Meeting, June 26-28, Las Vegas, NV (077-01)
43. Lee, S.H., Choi, W., Nguyen, L., and **Jun, S.** 2012. Continuous Flow, Simultaneous Microwave, and Ohmic Combination Heating Technology for Thermal Uniformity of Multiphase Foods, The 2012 IFT Annual Meeting, June 26-28, Las Vegas, NV (077-16)
44. Lu, L. and **Jun, S.** 2012. Electrochemical Impedance Spectroscopic Technique with a Functionalized Microwire Sensor for Rapid Detection of Foodborne Pathogens, The 2012 IFT Annual Meeting, June 26-28, Las Vegas, NV (077-73)
45. Rungraeng, N. and **Jun, S.** 2012. Superhydrophobic and Superhydrophilic Nanocomposite Coatings for Preventing Microbial Adhesion in Liquid Food Flow Channel, The 2012 IFT Annual Meeting, June 26-28, Las Vegas, NV (077-109) (First place at Division Student Competition)
46. Choi, W., Lee, S.H., and **Jun, S.** 2012. Understanding of Crack Propagation of a Potato Slice during Freeze Drying using the Continuum Truss Structure Model, The 2012 IFT Annual Meeting, June 26-28, Las Vegas, NV (077-159)
47. Chee, G. and **Jun, S.** 2012. Pulsed CO2 Laser Beam Technology for the Selective Elimination of Surface and Sub-Layer E. coli K12 from Fresh Fruits, The 2012 IFT Annual Meeting, June 26-28, Las Vegas, NV (077-160)
48. Choi, W., **Jun, S.**, Nguyen, L.T., Rungraeng, N., Puri, V.M., Yi, H., Balasubramanian, S., and Lee, J. 2011. 3D Milk-Fouling Modeling of Plate Heat Exchangers with Different Surface Finishes using Computational Fluid Dynamics. The 2011 IFT Annual Meeting, June 12-14, New Orleans, LA (290-07)
49. Nguyen, L.T., Choi, W., Lee, S.H., and **Jun, S.** 2011. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. The 2011 IFT Annual Meeting, June 12-14, New Orleans, LA (289-04)
50. Lu, L., Chee, G., Li, Y., and **Jun, S.** 2011. A microwire Sensor Functionalized to Detect *E. coli* Bacterial Cells in Tropical Fresh Produce. The 2011 IFT Annual Meeting, June 12-14, New Orleans, LA (032-03)
51. Rungraeng, N. and **Jun, S.** 2011. Polytetrafluoroethylene-based Carbon Nanotube Coating for Nonstick Surface in Plate Heat Exchanger. The 2011 IFT Annual Meeting, June 12-14, New Orleans, LA (290-24)
52. **Jun, S.** 2011. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. 45th Annual Microwave Power Symposium (IMPI 45), June 8-10, New Orleans, LA
53. **Jun, S.**, Nguyen, L.T., Choi, W., and Lee, S.H. 2011. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. International Congress on Engineering and Food (ICEF11), May 22-26, Athens, Greece (NFP1045)
54. Lee, S.H. and **Jun, S.** 2010. Exploring the Uniformity in Thermal Patterns of Multiphase Foods using the Novel Microwave and Ohmic Combination Heating Technology. The 2010 IFT Annual Meeting, July 18-20, Chicago, IL (071-20)
55. Kim, S., Lu L., Chung, J., Lee, K., Li, Y., and **Jun, S.** 2010. A Rapid Detection Method of Escherichia coli K-12 in Fresh Produce using Electric Field Driven Microwire Device. The 2010 IFT Annual Meeting, July 18-20, Chicago, IL (085-01)
56. Kim, S., Chung, J., and **Jun, S.** 2009. Detection of Foodborne Microorganisms using Electric Field Driven Microwire Device and Surface Plasmon Resonance Biosensor. The 2009 IFT Annual Meeting, June 6-9, Anaheim, CA
57. Lee, S.H., Kim, S.K., and **Jun, S.** 2009. Enhancement of Sugar Release from Taro Wastes for Subsequent Ethanol Production Using Microwave and Ohmic Heating. The 2009 IFT Annual Meeting, June 6-9, Anaheim, CA
58. **Jun, S.**, He, H., Shim, J.Y., Park, G.W., Lee, C.N., and Li, Y. 2008. Pulsed ohmic heating for milk pasteurization. The 2008 IFT Annual Meeting, June 29-July 2, New Orleans, LA (095-02)
59. Shim, J.Y., Khurana, H.K., Cho, I.K., Li, Q.X., and **Jun, S.** 2008. Attenuated total reflectance fourier transform infrared spectroscopy coupled with multivariate analysis for measurement of acesulfame-K in diet foods. The 2008 IFT Annual Meeting, June 29-July 2, New Orleans, LA (094-04)
60. Shim, J.Y. and **Jun, S.** 2008. Modeling of Ohmic Heating Patterns of Multi-phase Food Products Using Computational Fluid Dynamics Codes. The 75th Annual Meeting of Korean Society of Food Science and Technology (KSFST), June 18-20, Kwangjoo, Korea
61. **Jun, S.**, Kim, Y., Cox, L., and Huang, A. 2007. Study on the potential of retort pouches for adding value to less desirable cuts of beef. The 2007 IFT Annual Meeting, July 29-Aug 1, Chicago, Michigan (096-42)
62. Somavat, R., Rodriguez-Romo, L., Yousef, A., and **Jun, S.** 2007. Ohmic sterilization inside a pouch made up of multilayered laminate for NASA’s long duration space mission. The 2007 IFT Annual Meeting, July 29-Aug 1, Chicago, Michigan (096-29)
63. Khurana, H.K., **Jun, S.**, and Kanawjia, S.K. 2007. Utilization of exopolysaccharide producing strain (EPS+) of Lactococcus lactis as biostabilizer for manufacture of superior quality dahi (traditional Indian set fermented milk product). The 2007 IFT Annual Meeting, July 29-Aug 1, Chicago, Michigan (046-02)
64. Ozden, H.O., Nasir, H., **Jun, S.**, Na, B., and Puri, V.M. 2006. Bench scale heat exchanger fouling: coated surfaces. An ASABE 2006 Annual Meeting Presentation, Portland, Oregon, July 9-12, No. 066131
65. **Jun, S.,** and Sastry, S.K. 2005. Reusable Pouch Development for Long Term Space Mission: Thermal Distribution in 3D and Food Contamination for Ohmically Treated Pouches. 2005 AICHE Annual Meeting, October 30-November 4, Cincinnati, Ohio
66. **Jun, S.,** and Sastry, S.K. 2005. Reheating and Sterilization Technology for Food, Waste and Water: Design and Development Considerations for Package and Enclosure. International Conference on Environmental Systems (ICES), July, Rome, Italy
67. **Jun, S.,** and Puri, V.M. 2005. 3D Milk Fouling Model of Plate Heat Exchangers using Computational Fluid Dynamics. 2005 ASAE Annual International Meeting, July 17-20, Tampa, Florida
68. **Jun, S.** and Heskitt, B., Sastry, S.K., Mahna, R., Marcy, J., and Perchonok, M. 2005. Modeling and optimization of pulsed ohmic heating of foods within a flexible package. The 2005 IFT Annual Meeting, July 16-20, New Orleans, Louisiana
69. Ozden, H., **Jun, S.,** and Puri, V.M. 2004. Sensitivity analysis of plate heat exchangers using FLUENT. 2004 NABEC conference, June 27-30, University Park, Pennsylvania.
70. **Jun, S.** and Puri, V.M. 2004. Fouling performance of plate heat exchangers using a 2D dynamic model. 2004 NABEC conference, June 27-30, University Park, Pennsylvania.
71. **Jun, S.** and Puri, V.M. 2003. Development of user-friendly interface for computational model of temperature and moisture distributions during microwave heating of food materials. ASAE Annual International Meeting, July 27-30, Las Vegas, Nevada
72. **Jun, S.** and Puri, V. M. 2003. Dynamic modeling of thermal performance of multichannel plate heat exchangers. ASAE Annual International Meeting, July 27-30, Las Vegas, Nevada
73. **Jun, S.** and Irudayaraj, J. 2002. Exploring a selective heating technique for food components using Infrared radiation. The 2002 IFT Annual Meeting, June 15 -19, Anaheim, California
74. **Jun, S.** and Irudayaraj, J. 2002. Exploring the disinfection of fungal spores in corn meal using selective IR heating technique. The 2002 IFT Annual Meeting, June 15 -19, Anaheim, California
75. **Jun, S.** and Irudayaraj, J. 2001. Exploring the concept of selective heating of food powders. Fine powder processing 2001 - An international conference on Fine grinding, Oct 1-3, The Pennsylvania State University
76. **Jun, S.**, Ranjan, R., Elkind, J., Barthalomew, D., and Irudayaraj, J. 2001. Monitoring chemical and microbial status using surface plasmon resonance based on biosensor. 94th Annual International meeting of ASAE, July 29-Aug 1, Sacramento, California
77. **Jun, S.** and Irudayaraj, J. 2001. Design of selective heating system for food using Far infrared radiation. The Center for Food Manufacturing (CFM), June
78. Irudayaraj, J. and **Jun, S.** 2000. Automated Infrared system for selective heating of food. 93rd Annual International meeting of ASAE, July 9-12, Milwaukee, Wisconsin
79. Irudayaraj, J. and **Jun, S.** 1999. Design of selective heating system for food using Far infrared radiation. Conference on Technologies for the new millennium in commemoration of the 53rd anniversary of Research & Development Associates for military food and packaging systems, Inc. Fall ’99 meeting, Nov 1-2, Pittsburgh, PA

Other Symposiums Attended

1. Senga K, Kang T.Y., Lee B.E., Lee C.N., Li Y., **Jun S.J.** 2018. Developmental Methods of Alcohol Fermentation Through The Use of Taro. Annual CTAHR Student Research Symposium. Undergraduate Poster session (CTAHR Awards of Merit)
2. Brian Izawa,Yong Li, and **Soojin Jun.** 2018. Development and exploration of alcohol production from fresh pineapple waste. Annual CTAHR Student Research Symposium. Undergraduate Poster session **(**CTAHR2nd Place)
3. Cebricos, J., Li, Y., and **Jun, S.** 2016 Separation of Bacteriophage MS2 From Contaminated Tap Water Using a Single Stage, Continuous Flow Dielectrophoresis (DEP) device. The 28th Annual CTAHR Student Research Symposium, MS oral session (CTAHR Best MS Student Oral Presentation)
4. Lee, I. and **Jun, S.** 2016. Bio-nanocomposites-based electrochemical immunosensor for detection of *Escherichia coli*. The 28th Annual CTAHR Student Research Symposium, PhD poster session
5. Hoptowit, R., Her, J., and Jun, S. 2016. Pulsed Electric Field (PEF) and Oscillating Magnetic Field (OMF) device fabrication and its effect on Strawberry. The 28th Annual CTAHR Student Research Symposium, MS poster session
6. Lee, I. and **Jun, S.** 2015. Single walled carbon nanotube (SWCNT) functionalized junction biosensor for detection of *Escherichia coli* in continuous flow system. The 27th Annual CTAHR Student Research Symposium, PhD poster session (Gamma Sigma Delta PhD Student Poster Presentation)
7. Cebricos, J. and **Jun, S.** 2015 Separation of Escherichia coli K12 from drinking water using dielectrophoresis in a single stage, continuous flow device. The 27th Annual CTAHR Student Research Symposium, MS poster session (CTAHR MS Student Poster Presentation Award of Merit)
8. Shafel, T. and **Jun, S.** 2015. Extension of supercooled state in beef steak using pulsed electric fields and oscillating magnetic fields as a novel preservation technique. The 27th Annual CTAHR Student Research Symposium, MS Oral session
9. Shafel, T., **Jun, S.,** and Mok, J.H. 2014. Quality factor analysis of a chicken breast maintained at an extended supercooling state. The 26th Annual CTAHR Student Research Symposium, MS Poster session (CTAHR Best MS Student Poster Presentation)
10. Cebricos, J. and **Jun, S.** 2014. Yeast Cell Separation in Korean Rice Wine using a Continuous Single-Stage Dielectrophoresis Device. The 26th Annual CTAHR Student Research Symposium, Undergraduate Poster session (CTAHR Undergraduate Poster Presentation Award of Merit)
11. Yamada, K., Choi, W., and **Jun, S.** 2014. Nano-based Multi-junction Biosensor for Detection of Foodborne Pathogens. The 26th Annual CTAHR Student Research Symposium, MS Oral session (Gamma Sigma Delta MS Student Oral Presentation)
12. Lee, S.H., Choi, W., and **Jun, S.** 2014. Computational modeling for the validation of thermal lethality and heating profile of multiphase foods in a dual cylindrical microwave and ohmic combination heater. The 26th Annual CTAHR Student Research Symposium, PhD Oral session
13. Rungraeng, N., Hizal, F., Choi, C-H, and **Jun, S.** 2014. Prevention of Foodborne Microbial Adhesion Using Different Nano-Engineered Surfaces. The 26th Annual CTAHR Student Research Symposium, PhD Oral session (CTAHR Best PhD Student Oral Presentation)
14. Mok, J.H., Choi, W., and **Jun, S.** 2013. Emerging pulsed electric field (PEF) and static magnetic field (SMF) combination technology for food freezing. The 25th Annual CTAHR Student Research Symposium. MS Poster session
15. Rungraeng, N. and **Jun, S.** 2013. Development of Self-slippery Liquid-infused Carbon Nanotube Composite Structure Coating on Food Contact Surface for Prevention of Microbial Biofilm. The 25th Annual CTAHR Student Research Symposium. PhD Poster session
16. Liu, T., Abbley, T., and **Jun, S.** 2013. Yeast Removal by Dielectrophoresis to Control the Shelf Life of Korean Rice Wine. The 25th Annual CTAHR Student Research Symposium. Undergraduate Poster session
17. Yamada, K. and **Jun, S.** 2013. Bio-Nano Combinatorial Junction Sensor for Rapid Detection of Foodborne Pathogens. The 25th Annual CTAHR Student Research Symposium. MS Poster session
18. Ho, K., Yamada, K., Lee, S.H., and **Jun, S.** 2012. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. The 24th Annual CTAHR Student Research Symposium. Undergraduate Poster session
19. Abdullah, S. A., Choi, A., and **Jun, S.** 2012. Simulated Degradation of Antioxidant Activity of Grape Juice Pasteurized with Continuous Flow Ohmic Heating. The 24th Annual CTAHR Student Research Symposium, PhD poster session
20. Chee, G. and **Jun, S.** 2012. Pulsed CO2 laser beam technology for the selective elimination of surface and sub-layer E. coli K12 from fresh fruits. The 24th Annual CTAHR Student Research Symposium, MS poster session
21. Rungraeng, N. and **Jun, S.** 2012. Superhydrophobic and superhydrophilic nanocomposite coatings for preventing microbial adhesion in liquid food flow channel. The 24th Annual CTAHR Student Research Symposium, PhD poster session
22. Mok, J.H. and **Jun, S.** 2012. Electrochemical Impedance Spectroscopic Technique with a Functionalized Microwire Sensor for Rapid Detection of Foodborne Pathogens. The 24th Annual CTAHR Student Research Symposium, MS poster session
23. Chee, G., Rungraeng, N., and **Jun, S.** 2011. Authentication and Quantification of Kona Coffee using Fourier Transform Infrared Spectroscopy. The 23rd Annual CTAHR Student Research Symposium, MS poster session
24. Lee, S.H., Nguyen, L.T., Choi, W., and **Jun, S.** 2011. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. The 23rd Annual CTAHR Student Research Symposium, PhD poster session
25. Lu, L., Li, Y., and **Jun, S.** 2011. A Microwire Sensor Functionalized to Detect Escherichia coli Bacterial Cells in Bacteria-Polystyrene Beads Mixture. The 23rd Annual CTAHR Student Research Symposium, MS poster session
26. Rungraeng, N. and **Jun, S.** 2011. Polytetrafluoroethylene-based Carbon Nanotube Coating for Milk Fouling Reduction in Plate Heat Exchanger. The 23rd Annual CTAHR Student Research Symposium, PhD poster session
27. Kim, S., Lu L., Chung, J., Lee, K., Li, Y., and **Jun, S.** 2010. Microwire Fishing of E. coli from Fresh Produce. The 22nd Annual CTAHR Student Research Symposium, MS poster session
28. Lee, S.H. and **Jun, S.** 2010. Electrophoresis Induced Breakdown of Cellular Structures in Taro Skins for Enhancement of Sugar Release for Bioethanol Production. The 22nd Annual CTAHR Student Research Symposium, MS poster session.
29. Rungraeng, N., Choi, W., Nguyen, L.T., and **Jun, S.** 2010. 3D Milk Fouling Model of Plate Heat Exchangers using Computational Fluid Dynamics. The 22nd Annual CTAHR Student Research Symposium, MS poster session
30. Ahmad, S. Cho, I., and **Jun, S.** 2010. Extension of Shelf Life of Raisin Juice Treated by Continuous Flow Pasteurization Methods. The 22nd Annual CTAHR Student Research Symposium, MS poster session
31. Kim, S., Chung, J., and **Jun, S.** 2009. Detection of Foodborne Microorganisms using Electric Field Driven Microwire Device and Surface Plasmon Resonance Biosensor. The 21th Annual CTAHR Student Research Symposium, MS poster session
32. Lee, S.H., Kim, S.K., and **Jun, S.** 2009. Enhancement of Sugar Release from Taro Wastes for Subsequent Ethanol Production Using Microwave and Ohmic Heating. The 21th Annual CTAHR Student Research Symposium, MS poster session
33. Kim, S., **Jun, S.,** He, H., Lee, C.N., and Li, Y. 2008. Pulsed ohmic heating for milk pasteurization, The 20th Annual CTAHR Student Research Symposium, Undergraduate poster session
34. **Jun, S.** 2006. Using the Flexible Retort Pouch to Add Value to Agricultural Products. Mealani Forage Field Day, Waimea, Hawaii County, Poster presentation

Invited Seminars/lectures

1. **Jun, S.** 2020. Exploration of combined electric and magnetic field emissions for supercooling preservation of perishable food materials, Frozen, Too: New Developments in Food Freezing Technology - Food Engineering Division and Refrigerated & Frozen Foods Division, IFT Live Webcast, October 21, 1 PM CT.
2. **Jun, S.** 2019. Supercooling Technology for Extended Shelf Life of Perishable Foods. The 2nd International Forum on Food Nutrition and Health at Agricultural University of Hebei, Baoding, China, June 14.
3. **Jun, S.** 2019. Supercooling Technology for Food Preservation. Haier Open Partnership Ecosystem, Hei Long Jiang Road, Haier Park, Qingdao, China, June 13.
4. **Jun, S.** 2019. Supercooling Technology for Food Preservation. LG Electronics, Seoul, Korea, September 17.
5. **Jun, S.** 2019. Food Nanotechnology: Nano-engineered surfaces and biosensing. Mokpo University, Korea, October 28.
6. **Jun, S.** 2019. Supercooling Technology for Extended Shelf Life of Perishable Foods. KongJu University, Korea, October 29.
7. **Jun, S.** 2019. Food Nanotechnology: Nano-engineered surfaces and biosensing. Sejong University, Korea, August 8.
8. **Jun, S.** 2019. Supercooling Technology for Extended Shelf Life of Perishable Foods. Sungkyunkwan University, Korea, August 5.
9. **Jun, S.** 2019. Ohmic heating and its applications. Seoul National University of Science and Technology, Korea, June 16.
10. **Jun, S.** 2019. Novel Food Packaging Technologies: RFID/Software Integration and Beyond. WonKwang University, Korea, June 12.
11. **Jun, S.** 2018. Supercooling Technology for Extended Shelf Life of Perishable Foods. Hainan University, Hainan, China, Jun 5
12. **Jun, S.** 2018. Supercooling Technology for Extended Shelf Life of Perishable Foods, Fourth Annual Future Focus conference at the Hawaii Convention Center, October 10-11, 2018.
13. **Jun, S.** 2015. Food nanotechnology for biosensing and biofilm prevention. 2015 International Symposium and Annual Meeting at Alpensia Resort Convention Center, Pyeongchang, South Korea, August 24 -26.
14. **Jun, S.** 2015. Food nanotechnology for biosensing and biofilm prevention. Rural Development Administration, Jeonju-si, South Korea, August 4.
15. **Jun, S.** 2015. Nano-engineered surfaces for prevention of biofilm and bacterial adhesion. Korea Food Research Institute (KFRI), Seongnam-si, South Korea, June 30.
16. **Jun, S.** 2015. Food preservation and beyond. Samsung Electronics Co, Suwon-si, South Korea, June 19.
17. **Jun, S.** 2015. Nano-engineered surfaces for prevention of biofilm and bacterial adhesion. The 82nd Annual Meeting of Korean Society of Food Science and Technology (KoSFoST) at Bexco Convention Center, Busan, Republic of Korea, June 3 -5.
18. **Jun, S.** 2015. Sustainable food processing innovations: supercooling and anti-biofilm nano-engineered surface design. Purdue University, West Lafayette, IN, February 12.
19. **Jun, S.** 2015. Food processing innovations: supercooling and hybrid combination. University of Nebraska, Lincoln, NE, January 20.
20. **Jun, S.** 2014. Quality factor control and analysis of a chicken breast maintained at an extended supercooling state below the freezing point. The 81st Annual Meeting of Korean Society of Food Science and Technology (KoSFoST) in Gwangju, South Korea, August 25 – 27.
21. **Jun, S.** 2014. Carbon nanotube-based multi-junction biosensor for detection of foodborne pathogens. Chung-Ang University, Ansan-si, South Korea, July 31.
22. **Jun, S.** 2014. Nanotech and Biosensor for Food Applications. The Ohio State University, Columbus, OH, February 5.
23. **Jun, S.** 2014. Quality factor control and analysis of a chicken breast maintained at an extended supercooling state below the freezing point. CJ Cheiljedang Corporation, Seoul, South Korea, August 19.
24. **Jun, S.** 2013. Nanotech and Biosensor for Food Applications. Pennsylvania State University, University Park, PA, August 6.
25. **Jun, S.** 2013. Nanocomposite Coating for Biofouling Inhibition. US-Korea Conference 2013. East Rutherford, NJ, August 9.
26. **Jun, S.** 2013. ‘Microwire Sensor for Food Applications’ and ‘High Wear and Biofouling Resistant Nanoparticle-Polymer Composite Coating for Food Processing’. Oceanit, Honolulu, HI, April 5.
27. **Jun, S.** 2013. Alternative Technologies in Food Processing for Energy Efficiency. University of California, Davis, CA, January 14.
28. **Jun, S.** 2012. Nano-Microwire Sensor for Food Applications. Rural Development Administration, Suwon-si, South Korea, December 14.
29. **Jun, S.** 2012. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. Kyung Hee University, Yongin-si, South Korea, December 14.
30. **Jun, S.** 2012. Electrochemical Impedance Spectroscopic Technique with a Functionalized Microwire Biosensor for Rapid Detection of Foodborne Pathogens. US-Korea Conference 2012. Los Angeles, CA, August 11.
31. **Jun, S.** 2012. “Intelligence” in Food Packaging: Trends and Applications. Korea Ginseng Corporation (KGC), Daejeon, South Korea, June 12.
32. **Jun, S.** 2012. Exploring the Heating Patterns of Multiphase Foods in a Continuous Flow, Simultaneous Microwave and Ohmic Combination Heater. The 79th Annual Meeting and International Symposium of Korean Society of Food Science and Technology (KoSFoST), Daejeon Convention Center, Daejeon, South Korea, June 13 -15.
33. **Jun, S.** 2012. Nanotech and Biosensor for Food Applications. Department of Food Science & Engineering, Ewha Womans University, South Korea, June 11.
34. **Jun, S.** 2011. Intelligence in Food Packaging: Trends and Applications. 2011 International Symposium of Korean Society for Food Engineering, KINTEX, Ilsan, South Korea, April 28.
35. **Jun, S.** 2010. Microwire fishing and combination heating technology. Seoul National University, Seoul, South Korea, July 30.
36. **Jun, S.** 2010. Ohmic heating: Applications and Future. CJ Cheiljedang Corporation, Seoul, South Korea, July 29.
37. **Jun, S.** 2010. Microwire sensing and combination heating technology. LG Electronics, Seoul, South Korea, July 29.
38. **Jun, S.** 2010. Innovative Technology for Food Processing and Safety: Carbon Nanotubes and Nanoneedle sensors. Department of Food Science and Technology, Sejong University, Seoul, South Korea, July 26.
39. **Jun, S.** 2010. Dielectrophoresis Force Driven Microscale Needle Device for Detection of Targeted Bacteria in Foods. The 77th Annual Meeting and International Symposium of Korean Society of Food Science and Technology (KoSFoST), June 16 -18, Songdo Convensia, Incheon, South Korea
40. **Jun, S.** 2009. Novel Food Processing Techniques: System design and Applications. Department of Biosystems & Biomaterials Science and Engineering, Seoul National University, South Korea, March 26.
41. **Jun, S.** 2007. Innovative Hydrophobic Surface Treatment Technology for Food Processing: PTFE-coated Carbon Nanotubes. The 74th Annual Meeting and International Symposium of Korean Society of Food Science and Technology (KoSFoST), June 20 - 22, Busan Exhibition and Convention Center (BEXCO), Busan, South Korea

Yong Soo Kim

**College of Tropical Agriculture and Human Resources**

HNFAS

FTE Distribution: 30% I; 70% R

**Education**

|  |  |  |
| --- | --- | --- |
| **Degree** | **University** | **Major** |
|  |  |  |
| Bachelors | Seoul National University, Korea | Animal Science |
| Masters | University of California, Davis | Animal Science |
| PhD | University of California, Davis | Animal Physiology |

**Professional Appointments**

|  |  |  |
| --- | --- | --- |
| **Title** | **Employer** | **Dates Employed** |
| Postdoc Research Fellow | University of Melbourne | 1988 -1992 |
| Assistant Animal Scientist | University of Hawaii | 1992-1997 |
| Associate Animal Scientist | University of Hawaii | 1997-2013 |
| Animal Scientist | University of Hawaii | 2013 - present |

**Courses Taught**

Course Number and Title (credits)

* ANSC454, Meat Science and Muscle Biology, 3 credit
* ANSC454L, Meat Science and Muscle Biology Laboratory, 1 credit
* ANSC644, Growth Biology of Meat Animals, 2 credit (graduate course)
* ANSC687, Advanced Laboratory Techniques, 3 credit (graduate course, 50%)

**Publications (reverse chronological order)**

Book Chapters

1. Y.S. Kim. 2001. Meat production. In: Meat Science and Applications. Marcel Dekker, Inc. New York, NY p563-579.

2. Yong Soo Kim, Goo Bu Park, Dong Wook Ahn and Sang Geun Jin. 1998. Product utilization. In: Pig Production. Seon Jin Publishing Co, Seoul Korea. P463-506. (written in Korean)

Conference Proceedings

1. Yong Soo Kim, Glen Fukumoto, Matthew Stevenson, Mark Thorne, and Rajesh Jha. 2016. Carcass traits and tenderness of grass-fed beef from subtropical pastures in Hawaii. The 16th AAAP Congress Proceedings 1525-1529.
2. Glen K. Fukumoto, Yong S Kim, and Perry Kealoha. 2016. Evaluation of incorporating an improved leucanea forage for grass-fed beef production in a tropical ecosystem. The 16th AAAP Congress Proceedings 1302-1305.
3. N. Rodriguez, D. H. Choi, S.K. Park, Y.S. Kim. 2014. Comparison of myostatin-inhibitory capacity of various myostatin-binding proteins using a luciferase gene reporter assay system. The 16th AAAP Congress Proceedings Vol. II 2398-2401.
4. Yong Soo Kim and Glen K. Fukumoto. 2013. The 5th Korea-US International Joint Symposium Interdisciplinary Research for High Quality Beef Production. “Grass-fed beef in Hawaii: a review on carcass and meat quality characteristics.
5. Yong Soo Kim and Halina Zaleski. 2005. Proceedings of International Joint Symposium, “Current Trends and Issues in Animal Production”
6. Y. Liu, H. Ali, L. Xu, Z-D. Shi, S.D. Liang, Y.S. Kim. 2003. Cloning of Shitou Goose myostatin cDNA and construction of its recombinant protein vaccine. Advance on Animal Genetics and Breeding Researches in China. 495-500.
7. G.F. Fukumoto, Y.S. Kim, K.H. Kim and H.Ako. 1999. Carcass and meat quality characteristics of forage-based beef. In: Food for Health in the Pacific Rim. 3rd International Conference of Food Science and Technology (J.R. Whitaker, N.M. Haard, C.F. Shoemaker and R.P. Singh (ed.). pp 12-21. Food & Nutrition Press, Inc. Trumbull, CT.

Refereed Journal Publications

1. S. Wasti, N, Sah, D. L. Kuehu, Y.S. Kim R. Jha and B. Mishra. 2020. Expression of follistatin is associated with egg formation in the oviduct of laying hens. Animal Science Journal e13396.
2. Jeong Hwan Kim, Jeong Han Kim, Lisa Andriani Sutikno, Sang Beum Lee, Deuk-Hee Jin1, Yong-Ki Hong, Yong Soo Kim, Hyung-Joo Jin. 2019. Identification of the minimum region of flatfish myostatin propeptide (Pep45-65) for myostatin inhibition and its potential to enhance muscle growth and performance in animals. PLoS ONE 14(4): e0215298. https://doi.org/10.1371/journal. pone.0215298.
3. Dong hyuck Choi, Jinzeng Yang, Yong soo Kim. 2019. Rapamycin suppresses postnatal muscle hypertrophy induced by myostatin-inhibition accompanied by transcriptional suppression of the Akt.mTOR pathway. BB Reports. 17:182-290.
4. Yusuf Mohammed Maaeni, Sang Beum Lee, Dong Hyuck Choi, Yong Soo Kim and Paul Mozdziak. 2018. Cloning of Japanese quail (Coturnix Japonica) follistatin and production of bioactive quail follistatin288 in E. coli. International Journal of Poultry Science. 17(1):8-21.
5. Jackie K. Paquette, Ying Ma, Colleen Fisher, Jinze Li, Sang Beum Lee, James F. Zachary, Yong Soo Kim, Cory Teuscher, and Janis J. Weis. 2017. Genetic control of Lyme arthritis by Borrelia burgdorferi arthritis-associated locus 1 (Bbaa1) is dependent on localized differential production of IFN-β and requires upregulation of myostatin. The Journal of Immunology. 199(10):3525-3534.
6. C.N. Lee, G.K. Fukumoto, M.S. Thorne, M.H. Stevenson, Y.S. Kim, M. Nakahata and R.M. Ogoshi. 2017. Nutrient compositions of sugarcane forages were influenced by season and the time of harvest. Journal of Dairy and Veterinary Sciences 2(1):555579.
7. Sang Beum Lee, Sung Kwon Park and Yong Soo Kim. 2017. Maltose binding protein-fusion enhances the bioactivity of truncated forms of pig myostatin propeptide produced in E. coli. Plos One 12(4): e0174956.
8. Jin-Dan Kang, Seokjoong Kim, Hai-Ying Zhu, LongJin, QingGuo, Xiao-Chen Li, Yu-ChenZhang, Xiao-XuXing, Mei-Fu Xuan, Guang-Lei Zhang, Qi-Rong Luo, Yong Soo Kim, Cheng-Du Cui1, Wen-XueLi1, Zheng-YunCui1, Jin-Soo Kim, and Xi-Jun Yin. 2017. Generation of cloned adult muscular pigs with myostatin gene mutation by genetic engineering. RSC Advances 7:12541-12549.
9. J.D. Berrocoso, R. Kilda, A.K. Singh, Y.S. Kim and R. Jha. 2017. Effect of in ovo injection of raffinose on growth performance and gut health parameters of broiler chicken. Poultry Science 96:1573-1580.
10. R.K. Putluru, Y.S. Kim and C.N. Lee. 2016. Differential expression of superoxide mutases (SODs) in bovine corpus luteum during estrous cycle and pregnancy. Pacific Agriculture and Natural Resources. Pacific Agriculture and Natural Resources, Vol. 1:11-20.
11. S.B. Lee, J.H. Kim, D.H. Jin, H.J. Jin and Y.S. Kim. 2016. Myostatin inhibitory region of fish (*Paralichthys olivaceus)* myostatin-1 propeptide. Comp. Biochem. Physiol. Part B. 194-195:65-70.
12. S.B. Lee, S.K. Park, and Y.S. Kim. 2015. Production of bioactive chicken (Gallus gallus) follistatin-type proteins in E. coli. AMB Express 5:58 doi 10.1186/s13568-015-0142-3
13. S.B. Lee, R. Choi, S.K. Park, and Y.S. Kim. 2014. Production of bioactive chicken follistatin315 in Escherichia coli. Applied Microbiology and Biotechnology 98:10041-10051. doi: 10.1007/s00253-014-6139-z
14. W.Y. Haq, S.K. Kang, S.B. Lee, H.C. Kang, Y.J. Choi, C.N. Lee and Y.S. Kim. 2013. High-level soluble expression of porcine myostatin propeptide in Escherichia coli. Applied Microbiology and Biotechnology 97(19):8517-27. doi:10.1007/s00253-013-5134-0.
15. Sang Beum Lee, Jeong Hwan Kim, Hyung-Joo Jin, Il Shik Shin, and Yong Soo Kim, 2013. High-yield expression and purification of bioactive flatfish (*Paralichthys olivaceus*) myostatin-1 prodomain in *Escherichia coli,* American Journal of Biochemistry and Biotechnology 8 (3):195-201 **DOI:** 10.3844/ajbbsp.2012.195.201
16. Y.S. Kim, B. Fox, K.H. Kim, S.B. Lee, H. J. Jin and C.S. Tamaru. 2013. Immersion bath treatment of tilapia fry with myostatin-1 prodomain does not affect tilapia growth at market size. Aquaculture Research 44:1643-1648. DOI:10.1111/j.1365-2109.2012.03168.x
17. B. Funkenstein, E. Krol, E. Esterin, and Y. S. Kim, 2012. Structural and functional characterizations of activin type 2B receptor (*acvr2b*) ortholog from the marine fish *Sparus aurata*: evidence for gene duplication of *acvr2b* in fish. Journal of Molecular Endocrinology 49(3):175-192.
18. M. Wang, H. Yu, Y.S. Kim, C. A. Bidwell and S. Kuang. 2012. Myostatin facilitates slow and inhibits fast myosin heavy chain expression during myogenic differentiation. Biochemical and Biophysical Research Communications 426(1):83-8.
19. Y.S. Kim, G. Fukumoto, and S. Kim. 2012. Carcass quality and meat tenderness of Hawaii pasture-finished cattle and Hawaii-originated, mainland feedlot-finished cattle. Tropical Animal Health and Production 44:1411-1415.
20. Y.S. Kim, K.H. Kim and C.J. Kim. 2012. Production of bioactive extracellular domain of pig and chicken activin type IIB receptors in Pichia pastoris. Process Biochemistry 47:139-146. doi:10.1016/j.procbio.2011.10.027
21. Z. Li, F. Zeng, A Mitchell, Y.S. Kim, Z. Wu and J. Yang. 2011. Transgenic overexpression of bone morphogenetic protein 11 propeptide in skeleton enhances bone formation. Biochemical and Biophysical Research Communications 416:289-292.
22. S.B. Lee, M.J. Cho, J.H. Kim, Y.S. Kim, H.J. Jin. 2011. Production of bioactive rockfish (Sebastes schlegeli) myostatin-1 prodomain in an Escherichia coli system. Protein Journal 30:52-58.
23. K.H. Kim, Y.S. Kim and J.Z. Yang. 2011. Skeletal muscle hypertrophic effect of clenbuterol is additive to the hypertrophic effect of myostatin suppression. Muscle & Nerve 43:700-707.
24. J. Wang, K.H. Kim, S.K. Kim, Y.S. Kim, Q.X. Li, and S. Jun. 2010. Development of a simple quantification method of Escherichia coli K-12 internalized in baby spinach using Fourier Transform Infrared spectroscopy. International Journal of Food Microbiology 144:147-151.
25. S.B. Lee, Y.S. Kim, M.Y. Oh, I.H Jeong, K.B. Seong and H.J. Jin. 2010. Improving rainbow trout (*Oncorhynchus mykiss*) growth by treatment with a fish (*Paralichthys olivaceus*) myostatin prodomain expressed in soluble forms in *E.coli*. 2010. Aquaculture 302:270-278.
26. Z.C. Li, B. Zhao, Y.S. Kim and J. Yang. 2010. Administration of a mutated myostatin propeptide to neonatal mice significantly enhances skeletal muscle growth. Molecular Reproduction and Development 77:76-82.
27. N.K. Bobbili, Y.S. Kim, M.A. Dunn, J, Yang and A.Ong. 2008. Effects of maternal immunization against myostatin on postnatal growth and skeletal muscle mass of offspring in mice. Food and Agricultural Immunology 19:93-106.
28. Y.S. Kim, N.K. Bobbili, Y.K. Lee, H.J. Jin and M. Dunn. 2007. Production of a polyclonal antibody against unprocessed chicken myostatin and the effects of in-ovo administration of the antibody on post-hatch broiler growth and muscle mass. Poultry Science 86:1196-1205.
29. S.B. Lee, Y.S. Kim and H.J. Jin. 2007. Characterization and expression pattern of myostatin in the rockfish, *Sebastes schlegeli*. Journal of Fisheries Science and Technology 10:60-67.
30. S.B. Lee, Y.S. Kim, M. Yoon, S.K. Kim, I.W. Jang, H.J. Lim and H.J. Jin. 2007. Characterization and expression pattern of the partial myostatin cDNA in shrimp, *Fenneropenaeus Chinensis*. Journal of Marine Bioscience and Biotechnology 2:224-229.
31. Y.S. Kim, N.K. Bobilli, K.S. Paek and H.J. Jin. 2006. Production of a monoclonal anti-myostatin antibody and the effects of in ovo administration of the antibody on post-hatch broiler growth and muscle mass. Poultry Science 85:1062-1071.
32. Y.S. Kim, S.W. Kim, M.A. Weaver and C.Y. Lee. 2005. Increasing the pig market weight: world trend, expected consequences and practical considerations (invited review). Asian Australian Journal of Animal Science 18(4):590-600.
33. H.J. Jin, M.A. Dunn, D. Borthakur and Y.S. Kim. 2004. Refolding and purification of unprocessed porcine myostatin expressed in *Escherichia coli*. Protein Expression and Purification 35:1-10.
34. C.Y. Lee, K.H. Baik, J.H. Jeong, S.D. Lee, J.K. Park, Y.M. Song, Y.S. Kim, and S.H. Sohn. 2002. Active immunization against adrenocorticotropic hormone in growing-finishing barrows: an initial trial and evaluation. Asian Australian Journal of Animal Science 15:410-415.
35. J.Y Kim, M.L. Chung, K.K. Cho, C.D. Kim, Y.S. Kim, J.H. Woo and Y.J. Choi. 2001. Effects of active immunization against somatostatin or somatostatin analogues on male rat growth. Food and Agricultural Immunology. 13:141-149.
36. K.H. Kim, Y.S. Kim, Y.K. Lee, and M.G. Baik. 2000. Postmortem muscle glycolysis and meat quality characteristics of intact male Korean native (Hanwoo) cattle. Meat Science. 55:47-52.
37. K.H. Kim, Y.S. Kim, and S.J. Moon. 1999. Distribution of type IId fiber in various pig skeletal muscles. Korean J. Food Sci. Ani. Resour. 19:314-323.
38. I.G. Yi, D.S. Lim, J.Y. Kim, M.G. Chung, Y.J. Choi, Y.S. Kim, and J.D. Kim. 1999. Effects of active immunization against somatostatin or somatostatin analogues on milk production in rats. Nutritional Res. 19:1061-1072.
39. Y.S. Kim, K.H. Kim and Y.J. Choi. 1999. A sensitive ELISA for the measurement of anti-somatostatin antibody titer. Food and Agricultural Immunol. 11:269-273.
40. K.H. Kim and Y.S. Kim. 1997. The effects of sample storage and handling condition on calpain I and II and calpastatin activities in skeletal muscles. Korean J. Anim. Sci. 39(5):617-624.
41. Y.S. Kim, M.V. Dugies, Y.H. Kim and D.L. Vincent. 1997. Temporal pattern of cAMP and α-actin mRNA expression in skeletal muscle of cimaterol-fed rats. Asian Australian Journal of Animal Science 10:528-533.
42. Y.H. Kim and Y.S. Kim. 1997. Effects of active immunization against clenbuterol on growth-promoting effect of clenbuterol in rats. J. Anim. Sci. 75:446-453.
43. M.V. Duguies, Y.S. Kim and D.L. Vincent. 1995. Temporal pattern of cAMP concentration in skeletal muscle and heart from cimaterol-fed rats. HITAHR Research Series 074.
44. Y.S. Kim. 1995. Carcass characteristics and meat quality in forage-finished and grain-finished beef. RDA J. Agri. Sci. 37:573-582.
45. G.K. Fukumoto, Y.S. Kim, D. Okuda, H. Ako. 1995. Comparison of chemical composition and shear force in longissimus muscles between Hawaiian young beef and supermarket choice beef. HITAHR Research Extension Series 161.
46. Y.S. Kim, T.H. Lee and Y.J. Choi. 1995. Effect of intermittent and stepwise administration of a beta-adrenergic agonist, L644,969, on rat growth performance and skeletal muscles. Comp. Biochem. Physiol.110C:127-132.
47. Y.B. Lee and Y.S. Kim. 1994. Muscle characteristics and meat tenderness of cimaterol-fed lambs. J. Food Sci. 59:33-37.
48. Y.S. Kim, R.D. Sainz, J. Ferlazzo and N.M. Tulloh. 1994. Effect of maternal administration of salbutamol to sows on post-natal growth and carcass characteristics in the progeny. Aust. J. Agricul. Res. 45:271-278.
49. F.R. Dunshea, R.H. King, R.G. Campbell, R.D. Sainz, and Y.S. Kim. 1993. Interrelationship between sex and ractopamine on protein and lipid deposition in rapidly growing pigs. J. Anim. Sci. 71:2919-2930.
50. R.D. Sainz, Y.S. Kim, F.R. Dunshea and R.G. Campbell. 1993. Temporal changes in growth enhancement by ractopamine in pigs: performance aspects. Aust. J. Agric. Res. 44:1149-1155.
51. R.D. Sainz, Y.S. Kim, F.R. Dunshea and R.G. Campbell. 1993. Effects of ractopamine in pig muscles: histology, calpains and beta-adrenergic receptors. Aust. J. Agric. Res. 44:1141-1148.
52. Y.S. Kim, R.D. Sainz and Y.B. Lee. 1993. Note on the comparison of calpains I, II and calpastatin activity in two different types of porcine skeletal muscles. Comp. Biochem. Physiol. 105A:235-237.
53. Y.S. Kim., R.D. Sainz, R.D. Summers and P. Molenaar. 1992. Cimaterol reduces beta-adrenergic receptor density in rat skeletal muscles. J. Anim. Sci. 70:115-122.
54. Y.S. Kim and R.D. Sainz. 1992. Beta-adrenergic agonists and hypertrophy of skeletal muscles. Life Sci. 50:397-407.
55. P. Molenaar, S.J. Roberts, Y.S. Kim, H.S. Park, R.D. Sainz and R.J. Summers. 1991. Localization and characterization of two propranolol resistant (-)[125I]cyanopindolol binding sites in rat skeletal muscle. Eur. J. Pharmacol. 209:257-262.
56. Y.S. Kim, R.D. Sainz, P. Molenaar and R.J. Summers. 1991. Characterization of ß1- and ß2-adrenoceptors in rat skeletal muscles. Biochem. Pharmacol. 42:1783-1789.
57. Y.S. Kim and Y.B. Lee. 1990. Effect of cimaterol on growth and 3-methylhistidine excretion in rats. AJAS. 3:313-318.
58. Y.S. Kim, Y.B. Lee, C.R. Ashmore and I.K. Han. 1989 Effects of cimaterol on carcass and skeletal muscle characteristics under ad libitum and restricted feeding conditions in lambs. AJAS. 1(4):223-232.
59. Y.S. Kim, Y.B. Lee and W.N. Garrett and R.H. Darlymple. 1989. Effect of cimaterol on nitrogen retention and energy utilization in lambs. J. Anim. Sci. 67:674-681.
60. Y.S. Kim, Y.B. Lee and C.R. Ashmore. 1988. Cimaterol-induced growth in rats: growth pattern and biochemical characteristics. Growth, Development & Aging 5(1):41-46.
61. Y.S. Kim, Y.B. Lee and R.H. Dalrymple. 1987. Effect of the repartitioning agent, cimaterol, on growth, carcass and skeletal muscle characteristics in lambs. J. Anim. Sci. 65:1392-1399.
62. Y.B. Lee and Y.S. Kim and C.R. Ashmore. 1986. Antioxidant property in ginger rhizome and its application to meat products. J. Food Sci. 51:20-30.
63. Y.B. Lee and Y.S. Kim. 1985. Effects of delayed chilling on the tenderness of beef from different carcass weight and backfat thickness. Proc. 3rd AAAP Anim. Sci. Congress 2:1109-1111.

Extension Publications

1. Glen K. Fukumoto, Y.S. Kim, and Perry Kealoha. 2017. Improved Leucaena (var. ‘Wondergraze’) for Sustainable Beef Production in Hawai‘i: Study 1, Evaluation of beef cattle performance and carcass characteristics. PRM-14
2. C.N. Lee, G.K. Fukumoto, M.S. Thorne, M.H. Stevenson, Y.S. Kim, M. Nakahata and R.M. Ogoshi. December 2015. Sugarcane Crosses as Potential Forages for Ruminants: Nutrient Compositions Were Influenced by Season and Time of Harvest. (PRM)-8
3. Yong Soo Kim, Glen Fukumoto, Matthew Stevenson, Mark Thorne, and Rajesh Jha. December 2015. Carcass Traits and Tenderness of Hawaii’s Grass-fed Beef (LM)-29
4. Matthew Stevenson, Yong Soo Kim, Glen Fukumoto, November 2012. Effects of Wet Aging and Age at Slaughter on Kauai Grass-Finished Ribeye Steak Tenderness (FST)-53
5. Stevenson, M., Y.S. Kim and G. Fukumoto. November 2010. Evaluation of the tenderness, size, and marbling of Kaua’i ribeye steaks. Food Safety and Technology (FST)-40
6. Y.S. Kim, A. Ong, N. Bobbili, M. DuPonte and G. Fukumoto. June 2007. Evaluation of meat tenderness of forage-finished cattle produced in Hawaii and factors affecting the tenderness. Food Safety and Technology (FST)-27
7. G.K. Fukumoto and Y.S. Kim. March 2007. Carcass characteristics of forage-finished cattle produced in Hawaii. Food Safety and Technology (FST)-25
8. G.K. Fukumoto and Y.S. Kim. Jan 2007. Improving tenderness of forage-finished beef using a mechanical tenderizer. Food Safety and Technology (FST)-23
9. Y.S. Kim, C.N. Lee, M.W. DuPonte and G. Fukumoto. Jan 2007. Improving tenderness of forage-finished beef using a low-voltage electrical stimulator. Food Safety and Technology (FST)-22

Leadership Roles (Committees, Boards, Advisory, etc.)

Member of University Research Council (2002- 2005)

CTAHR Educational Improvement Fund Screening Committee (2000)

UH Radiation Safety Committee (August, 1995 – 2001)

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| Category | Current Number of Students | Number Graduated (Career) |
| *Chair* of Master’s Committees | 1 | 14 |
| *Chair* of PhD Committees | 1 | 2 |
| Member of Master’s Committees | 3 | 33 |
| Member of PhD Committees | 0 | 12 |

**Grant Support**

As a PI

UH CTAHR Supplement Funding, FY2019 (2 year) “Maternal immunization against myostatin to enhance post-hatch broiler growth and muscle mass”, $76,316

UH CTAHR Supplement Funding, FY2016 (2 year),“Potentials of anti‐MSTN proteins to enhance skeletal muscle growth of animals”, $58,938

UH CTAHR Supplement Funding, FY2014, “Molecular mechanisms regulating skeletal muscle growth and differentiation”, $20,000

NIAS, RDA, Korea, (May, 2013 – December, 2015), “Improving the efficiency of pig production by enhancing muscle satellite cell proliferation using myostatin-based biotechnology”, $150,000

USDA SARE grant, (August, 2013 – July, 2016), “Enhancing the sustainability of grass-fed beef production in Hawaii via carcass and meat quality improvement”, $50,000

UH CTAHR Supplement Funding, FY2013-FY2014, “Molecular mechanisms regulating skeletal muscle growth and differentiation”,$10,000

UH CTAHR Supplement Funding, FY2012, “Molecular mechanisms regulating skeletal muscle growth and differentiation”, $14,000

UH CTAHR Capacity Improvement Funding, FY2012, “Repairing and upgrading teaching Lab for HNFAS/MBBE programs”,$31,000

Hawaii Community Foundation, 2011, 1 years (May18, 2011-November 18, 2012) “A novel approach of using myostatin prodomain to treat age-associated sarcopenia”, $47, 980

USDA NIFA (T-STAR), 2 Years (Sep 2010 – Aug, 2012), “Myostatin Inhibition and Improvement of Skeletal Muscle Growth of Broilers”, $122, 351

USDA T-STAR, 2005 2 years (August 15, 2005 – August 14, 2007), “Investigation of Molecular Mechanisms regulating skeletal muscle growth using microarray analysis”, $88,335

CTAHR Beef Initiative Program, 2 year (January 1, 2005 – December, 2006), “Meat quality of forage-finished beef”, $55,000

USDA T-STAR, 2 years (October, 2003 – September, 2005), “Improving skeletal muscle growth by active immunization against myostatin”, $109,020

University Research Council Seed Grant, 2001,“Expression of myostatin in muscle cell culture system” , $4,500.

USDA NRICGP, 2000, 2 years (September, 2000 – August, 2002), “Production of monoclonal antibodies against porcine myostatin”, $50,000.

USDA NRICGP, 2000, “Acquisition of FPLC (Fast Protein Liquid Chromatography) system”, $23,700.

USDA T-STAR, 1999,3 years (July, 1999 – June, 2003), “Improving skeletal muscle growth by immunomodulation of myostatin bioactivity”, $110,869.

Faculty Opportunity Fund, 1999, “A preparative electrophoresis system for lab course (ANSC 687)”, $4,800.

Hawaiian Electric Company Research Grant, 1998,1 year, “Improving carcass and meat quality characteristics of forage-fed beef using electrical stimulation technology”, $17,800.

HITAHR Mini Grant Program, 1995, 2 years, “Immunological approaches to improve animal production”, $20,000.

Hatch Project, 1995,3 year (1995 – 1998),“Immunological approaches to improve animal production: use of beta-agonist anti-idiotypic antibody”, $12,000.

Seed Grant, Office of Research Administration, U.H.,1994, “Effects of beta-adrenergic agonists on the expression of muscle-specific mRNAs and second messenger molecules in the rat, $6,800.

Hatch Project, 1992, 4 years (1992-1996), “Regulation of skeletal muscle growth by beta-adrenoceptors”, $16,000.

As a Co-PI

NIH RO1, 2020-2024, “Molecular Genetics of Lyme Arthritis”, total grant $2,271, 260 (UH allocation, $451,046). PI: Dr. Janis Weiss, School of Medicine, University of Utah

CATHR NIFA Animal Health Grant, 2015. “Potential Probiotic Bacteria for Poultry Production from Fermented Cooked Taro Peel” 10/01/2015-9/30/2017, $12,000/year, *PI: C.N. Lee*

CTAHR Catalyst Funding, 2011, “Maximization of grass-finishing efficiency as determined by calf immune function, growth performance, and carcass quality determination”,April, 2011 – June 2012, $103,668, *PI: Ashley Stokes*

Western SARE Grant, 2011, “Training livestock to eat weeds in the tropical Pacifc and evaluation of the effects on meat quality” $42,490, *PI: Stevenson MH*

Kauai beef quality assessment. County of Kauai Office of Economic Development (awarded to Kauai Cattlemen’s Association), *PI: Stevenson, M.H.*

Hawaii Community Foundation, 2009, “Recombinant oligomeric antimicrobial peptides with enhanced ectivities”, $50,000 (1 year), *PI: Wei Wen Su*

USDA/HATCH “Improving health through the establishment of a relative iron-bioavailability database” Funded for 3 years for a total of $60,000. Start/end dates: 10/01/2008 - 9/30/2011 , *PI: Dr. Michael Dunn*

Allen Foundation, 2005, “Establishing an Iron-Bioavailability Database”, July 1, 2005 – June 30, 2006, $79,718. , *PI: Michael Dunn*

USDA T-STAR, 2003, “Role of myostatin (GDF-8) prodomain in promoting animal growth”,

3 years (October, 2003 – September, 2006), $202,300. *Principal investigators, Jinzeng Yang, Yong Soo Kim and Michael Dunn (HNFAS, UH).*

Hawaii County, 2003, “Organoleptic evaluation of meat products”, 1 year (September 2003 – August, 2003), $10,000, *Principal investigators, Michael DuPonte and Yong Soo Kim (HNFAS, UH).*

Faculty Opportunity Fund, 2001, “Instrument automation for MBBE/HNFAS687” 1 year (2001), $5,000. *Principal investigatosr, Qing Li (MBBE, UH) and Yong Soo Kim.*

USDA Higher Education Challenge Grants Program, 1997, “An internet-based multimedia laboratory manual for biological engineering”, 3 years (September, 1997 – August, 2000),, $80,000. *Principal investigators, Winston Su (MBBE, UH) and Yong Soo Kim*

Korean Ministry of Agriculture Research Grant,1996, *“*Investigation of genes related to lipid metabolism in order to improve genetic potentials of Korean native cattle in producing high quality meat”, 5 years (1996- 2001), $312,500, *Principal Investigators, M.G. Baik and Y.S. Kim.*

National Livestock Research Institute,1996, “The effects of somatostatin autoimmunization on the muscle growth in rat, Korea”, 2 years (1996- 1998), $85,200, *Principal Investigators: Y.J. Choi, Y.S. Kim, and S.S. Sun.*

Private Company Fund**,** Pacmar Inc., 1995*, “*Mushy Tuna Project”, *1 year, $ 25,000. Principal Investigators, Drs. H. Ako and Y.S. Kim*

Department of Research and Development, County of Hawaii, 1994, “Compositional and shear force characteristics of Hawaii forage based beef”, 1 year (1994), $ 5,500, *Principal Investigators: G.K. Fukumoto and Y.S. Kim.*

**Abstracts, and Conference, and Invited Presentations**

1. Rajeev Kumar Mishra, Rajesh Jha, Birendra Mishra, Yong-Soo Kim.2020. Effects of maternal immunization against myostatin on the post-hatch growth performance of their chicks. 2020 PSA Virtual Annual Meeting, July 20-22
2. S. Yadav, Y. Li, Y.S. Kim, C.N. Leeand R. Jha. 2018. Effect of feeding lactic acid bacteria isolated from taro (*Colocasia esculenta*) skins on growth performance, gut microbiota and muscle growth of broiler chickens. 2018 Annual Meeting for Poultry Science Association July 23-26, San Antoni, TX
3. M. Oshiro, M. S. Thorne, Ph.D., C. N. Lee, Ph.D., Dr. Y. S. Kim, Ph. D., G.K. Fukumoto. 2018. Effects of Animal Behavior and Core-Body Temperature on Production Efficiency of Grass-Finished Cattle. 2018 Conference for The Society for Range Management, Sparks, NV. Jan 28-Feb 2, 2018.
4. Yong Soo Kim, Glen Fukumoto, Matthew Stevenson, Mark Thorne, and Rajesh Jha. 2016. Carcass traits and tenderness of grass-fed beef from subtropical pastures in Hawaii. 17th Asian Australian Animal Production Animal Science Congress. August 22-25, 2016, Fukuoka, Japan.
5. Glen K. Fukumoto, Yong S Kim, and Perry Kealoha. 2016. Evaluation of incorporating an improved leucanea forage for grass-fed beef production in a tropical ecosystem. 17th Asian Australian Animal Production Animal Science Congress. August 22-25, 2016, Fukuoka, Japan.
6. Julio D. Berrocoso, Ryosuke Kida, Amit K. Singh, Yong soo Kim, Rajesh Jha. 2016. In-ovo inoculation of raffinose (as a prebiotic) improves hatchability rate and gut health, but not growth performance of broiler chickens. The XXV World’s Poultry Congress. September 5-9, 2016 Beijing, China. 2015,
7. The 1st International Symposium on Beef Sciences and Industry Technology Development. October 10-11, 2015 Yanji, China. Invited speaker, *Title of presentation*: *Improving meat quality characteristics of grass-fed beef in Hawaii”*
8. The 16th Asian-Australian Association of Animal Production Societies Congress, 2014, November 10-14, *Title of presentation:* “*Comparison of myostatin-inhibitory capacity of various myostatin-binding proteins using a luciferase gene reporter assay system*”
9. Sungkwon Park, Yongdae Jeong, Sangbeum Lee and Yongsoo Kim. 2015. Porcine myostatin propeptide promotes the proliferation of satellite cells isolated from porcine skeletal muscle. International Conference of the Korean Society for Molecular and Cellular Biology. Sep 21-23. Seoul, Korea.
10. Yong Soo Kim, Sang Beum Lee, Sung Kwon Park, and Hyung-Joo Jin. 2015. Production of bioactive myostatin propeptide of various animal species in E. coli. 7th Asia-Pacific Biotech Congress. J. Biotechnol. Biomater Vol 5, Issue 2:29.
11. Awat N Yousif, Yong S. Kim, Douglas L Vincent, and Jinzeng Yang. 2015. Transgenic expression of myostatin propeptide prevents muscle loss and fat accumulation in old ages. The Endocrine Society’s 97 Annual Meeting & Expo. March 5-8, San Diego.
12. Mark Thorne, Glen Fukumoto, Yong Soo Kim, Chin N. Lee, Matthew Stevenson, and Melelani Abran. Forage quality and weaning weight influences grass-finished cattle performance and meat quality. 2015. Society for Range Management 68th Annual Meeting, Jan 31- Feb 6, Sacramento.
13. Glen Fukumoto, Yong soo Kim, and Perry Kealoha. 2015. Evaluation of incorporating an improved leucaena forage for grass-fed beef production in Hawaii. Society for Range Management 68th Annual Meeting, Jan 31- Feb 6, Sacramento.
14. Mark Thorne, Glen Fukumoto, Yong Soo Kim, Chin N. Lee, Matthew Stevenson, and Melelani Abran. 2015. Grazing management for tropical grass-finished beef production. Society for Range Management 68th Annual Meeting, Jan 31- Feb 6, Sacramento.
15. N. Rodriguez, D. H. Choi, S.K. Park, Y.S. Kim. 2014. Comparison of myostatin-inhibitory capacity of various myostatin-binding proteins using a luciferase gene reporter assay system. The 16th AAAP Congress Proceedings Vol. II Abstract:662. (2014 AAAP meeting, November 10-14, 2014, Indonesia)
16. Rocky Choi, Sang Beum Lee, Sung Kwon Park and Yong Soo Kim. 2014.  Production of bioactive chicken follistatin315 in Escherichia coli. 4th Asia Pacific-Korea Conference on Science and Technology (12/20-12/22. Sydney, Australia) (Abstract).
17. S.B. Lee, S.K. Park, and Y.S. Kim. 2014. Production of bioactive porcine mutant myostatin propeptide/Fc fusion protein in Escherichia coli. J. Anim. Sci. 92 (suppl. 2): 581.
18. D. Choi, J. Yang, S.K. Park, and Y.S. Kim. 2014. Muscle hypertrophy induced by myostatin inhibition is suppressed by rapamysin administration. J. Anim. Sci. 92 (suppl. 2): 588.
19. The 5th Korea-US International Joint Symposium Interdisciplinary Research for High Quality Beef Production. October 28,2013, *Title of presentation:* “Grass-fed beef in Hawaii: a review on carcass and meat quality characteristics. Honolulu, Hawaii
20. R. Choi and Y.S. Kim. 2012. Soluble expression of chicken follistatin proteins in Escherichia coli. FASEB J 26:545.1 (Abstract)
21. W.Y. Haq, H.C. Kang, S.K. Kang, J.A. Park, Y.J. Choi, C.N. Lee and Y.S. Kim. 2011. Soluble expression of porcine myostatin propeptide in an Escherichia coli expression system. Asian Congress on Biotechnology 2011, May 11-15, Shanghai, China.
22. S. Yarlagadda, C.N. Lee, Y.S. Kim, J.Y. Yang and W.Y. Ho. 2011. Effect of transgenic myostatin depression on reproductive parameters and placental superoxide dismutases in mice. 2011 Joint ADSA and ASAS Annual Meeting.
23. Stevenson, M.H., Y. Kim, and G. Fukumoto. 2011. Evaluation of the tenderness, size and marbling of forage-finished ribeye steaks produced in Kauai County, Hawaii. Society for Range Management (SRM) 64th Annual Meeting, February 6-1-. Billings, Montana.
24. Tamaru, C.S., B. Fox, T. Radovich, Y. S. Kim, S. Khanal, H. Ako, J. Sugano, K. McGovern-Hopkins and R. Klinger-Bowen. 2010. Aquaponics at the College of Tropical Agriculture and Human Resources (CTAHR). Zero Emissions Conference. The World Congress on Zero Emissions Initiatives. September 13-17, 2010. Honolulu, Hawaii.
25. K.H. Kim and Y.S. Kim. 2009. Skeletal muscle hypertrophic effect of clenbuterol is additive to the hypertrophic effect of myostatin suppression. FASEB J 23:600.26 (Abstract)
26. Y.S. Kim, K.H. Kim and J.Z. Yang. Experimental Biology Anuual Meeting, San Diego, California, April 5-102008. Overexpression of myofibrillar protein and metallothionein 3 genes in transgenic mice overexpressing myostatin prodomain. FASEB J 22:1b143 (Abstract)
27. S.B. Lee, O M. Young, K.J. Hwan, H.Y. Dong, K.H. Woong, K.J. Ho, C.P. Lee, Y.S. Kim, and H.Y. Jin. 2008. The 3rd International Symposium on the Marine Biotechnology and Advanced Materials p215.
28. S.B. Lee, Y.J. Park, K.S. Lee, Y.S. Kim, M Yoon, and H.Y.Jin. 2008. Characterization of a partial myostatin gene from *Stichopus japonicus*.. Annual meeting of the Japanese Society of Fisheries Science. Abstract #1429
29. S.J. Jun, Y.S. Kim, L Cox and A. Huang. 2007. Potentials of retort pouches for adding value to less desirable cuts of beef. FoodSmart: Institute of Food Technologiest annual meeting and Food Expo, Chicago IL 096-42.
30. Y.S. Kim, A. Ong, N. Bobbili, M. DuPonte, G.K. Fukumoto and C.N. Lee. 2007. Evaluation of meat tenderness of forage-finished cattle produced in Hawaii and factors affecting the tenderness. J. Anim. Sci. 85 (suppl. 1):492.
31. S.B. Lee, Y.S. Kim and H.Y.Jin. 2007. Characterization and protein expression of myostatin in *Paralichthys olivaceus*. The 3rd International Symposium on Advanced Materials, Natural Products and Marine Biotechnology: p38.
32. S.B. Lee, Y.S. Kim and H.Y.Jin. 2007. Comparison and analysis of the myostatin in Paralichtys olivaceus, *Sebastes schegeli* and *Fenneropenaeus chinensis.* The 3rd International Symposium on Advanced Materials, Natural Products and Marine Biotechnology: p28
33. 2007, September 18, Kalamazoo MI, Invited speaker for the “Poultry Performance Workshop” hosted by Pfizer Animal Health and Embrex. Title of presentation: “Immunoneutralization of myostatin to improve poultry meat production” Contact: Dr. Richard Wardley (richard.c.wardley@pfizer.com, 269-760-1567).
34. 2006, June 9, Jinju, Korea, invited speaker for a joint symposium between the Regional animal Industry Research Center, Jinju National University and University of Hawaii and Texas Tech University, Invited speaker Title of presentation: “Meat quality characteristics of grain- forage-finished beef” Contact: Dr. Dr. Chul Young Lee (cylee@jinju.ac.kr, 82-55-751-3285)
35. S.B. Lee, Y.S. Kim and H.J. Jin. 2006. Characterization and expression pattern of myostatin in *Sebastes schlegeli*. 2nd International Conference on Marine Biotechnology: p79.
36. N.K. Bobbili, Y.K. Lee and Y.S. Kim. 2006. Production of a polyclonal antibody against unprocessed chicken myostatin and the effects of in-ovo administration of the antibody on post-hatch broiler growth and muscle mass. J. Anim. Sci. 84(suppl. 1):30
37. Y.S. Kim, Y.C. Huh and C.J. Kim. 2006. Maternal immunization against myostatin enhances post-hatch broiler growth and muscle mass. J. Anim. Sci. 84(suppl. 1):30
38. Y.S. Kim and H.J. Jin. 2005. Effects of in-ovo administration of monoclonal anti-myostatin antibody on post-hatch chicken growth and muscle mass. J. Anim. Sci. 83(suppl. 1):26.
39. R.K. Putlulu, C.N. Lee and Y.S. Kim. 2005. Differential expression of superoxide dismutase (SODs) in bovine corpus luteum during estrous cycle and pregnancy. J. Anim. Sci. 83(suppl. 1):119.
40. M. DuPonte, J. Dobbs, H.M. Zaleski and Y.S. Kim. 2005. Eating quality of forage-finished beef produced in Hawaii as compared to the imported mainland beef. J. Anim. Sci. 83(suppl. 1):159.
41. J. Yang, Y.S. Kim, R.J. Wall. 2004. Myostatin and its prodomain transgene expression. Plant and Animal Genome XII Conference, p293.
42. H.J. Jin, Y.S. Kim and M.A. Dunn. 2003. Refolding and purification of unprocessed porcine myostatin expressed in *E. coli*. J. Anim. Sci. 81 (suppl. 1):305.
43. Y.S. Kim, Y.K. Lee, and M.A. Dunn. 2002. Polyclonal antibodies recognize only the latent peptide of myostatin but not the active form of myostatin. J. Anim. Sci. 80 (suppl. 1):211.
44. Y.S. Kim, K.S. Baek, and M.A. Dunn. 2001. Solubilization and purification of a recombinant chicken myostatin expressed as inclusion bodies in *E. coli*. J. Anim. Sci. 79 (suppl. 1):431.
45. K.S. Baek, Y.S. Kim and C.N. Lee. 2001. *Comparison of total protein, DNA and RNA contents in corpus luteum of various stages of the estrous cycle and pregnancy*. Korean Soc. of Animal Production Proceedings, Seoul, Korea.
46. K.S. Baek, C.N. Lee and Y.S. Kim. 2001. *The site of administration of PGF2a and the subsequent pregnancy rates*. Korean Soc. of Animal Production Proceedings, Seoul, Korea
47. Y.K. Lee, K.H. Kim, Y.S. Kim, S.S. Kim, and M.G. Kim. 2001. Meat quality characteristics of loin eye and tenderloin muscles of native Korean (Hanwoo) steers.Anim. Sci. 78 (suppl. 1):318
48. Y.S. Kim, K.S. Baek, M.A. Dunn, and D. Borthakur. 2000. PCR cloning and expression of chicken myostain cDNA in E. coli. J. Anim. Sci. 78 (suppl. 2):104
49. K.H. Kim, Y.S. Kim, Y.K. Lee and M.G. Baik. Meat quality characteristics of loin eye and tenderloin muscle of male Korean native cattle. 1998. J. Anim. Sci. 76 (suppl. 1):141
50. 1999, March 21-26, Invited workshop at the University of Guam on “Pig Carcass Evaluation” Contact: Dr. Manuel Dugies
51. Y.S. Kim, K.H. Kim and Y.J. Choi. 1998. Conjugation methods affect anti-somatostatin antibody production, but do not affect growth response during active immunization against somatostatin in rats. J. Anim. Sci. 76 (suppl. 1):126.
52. 1996, Invited speaker as an honorary scientist in the Rural Development Administration of the Republic of Korea, June 23 - 29. Presented series of lectures about ‘pig meat quality’
53. Y.S. Kim, K.H. Kim, Y.H. Kim and Y.J. Choi. 1996. Effects of active immunization against various forms of somatostatin on growth rate in rats. J. Anim. Sci. 74 (suppl.1): 156.
54. K.H. Kim, Y.S. Kim, and H. Zaleski. 1996. Effects of age and muscle type on calpainI, calpain II, and calpastatin in pig skeletal muscles. J. Anim. Sci. 74 (suppl. 1):165.
55. M.V. Duguies and Y.S. Kim. 1995. Temporal pattern of muscle cAMP concentration in cimaterol-fed rats. J. Anim. Sci. 73 (suppl. 1):149.
56. Y.H. Kim and Y.S. Kim. 1995. Active-immunization against clenbuterol does not inhibit the growth-promoting effect of clenbuterol in rats. J. Anim. Sci. 73 (suppl. 1):149. 1994, Korean Cooperative Research Proceedings, Suwon, Korea, September 9-19. Invited speaker as an honorary scientist in the Rural Development Administration of the Republic of Korea, Title of presentation: Beta-adrenergic agonists and hypertrophy of skeletal muscles
57. Y.S. Kim, Y.J. Choi and T.H. Lee. 1994. Effect of intermittent and stepwise administration of beta-adrenergic agonist, L644,969, on rat growth performance and skeletal muscle growth. J. Anim. Sci. 72 (suppl. 1):261
58. Y.S. Kim. 1994. Carcass characteristics and meat quality in forage finished and grain finished beef. Proceedings of the Hawaiian Home Lands Livestock Education and Assistance Symposium and Field Day: 52-56.
59. Y.S. Kim and Y.H. Kim. 1995. Immunological approaches to improve animal growth efficiency. Proceedings of Hawaii Agriculture: Positioning for Growth: 146.
60. Y.S. Kim, R.D. Sainz and Y.B. Lee. 1992. Comparison of calpains I and II and calpastatin activity in two different types of porcine skeletal muscles. J. Anim. Sci. 70 (suppl. 1):219.
61. Y.S. Kim, R.D. Sainz, F. Dunshea and R.G. Campbell. 1991. Skeletal muscle fiber type characteristics in ractopamine-fed pigs. Proc. Nutr. Soc. Australia. 16.
62. Y.S. Kim, R.D. Sainz, R.D. Warner, R.H. King and R.G. Campbell. 1991. Effect of porcine growth hormone administration on muscle fiber characteristics. Proc. Nutr. Soc. Australia. 16.
63. Y.S. Kim and R.D. Sainz. 1990. Skeletal muscle beta-adrenoceptors are reduced by chronic administration of the beta-agonist, cimaterol. J. Anim. Sci. 68 (suppl.1):317.
64. Y.S. Kim and R.D. Sainz. 1990. Characterization of beta-adrenoceptors in rat skeletal muscles. J. Anim. Sci. 68 (suppl. 1):285.
65. Y.S. Kim and Y.B. Lee. 1990. Effect of cimaterol on growth and 3-methylhistidine excretion in rats. J. Anim. Sci. 68 (suppl. 1):317.
66. Y.B. Lee, H. Jung, Y.S. Kim and R.H. Dalrymple. 1988. Effects of cimaterol (CL 263,780) on meat quality in lambs. J. Anim. Sci. 66 (suppl. 1):279.
67. Y.S. Kim, Y.B. Lee, C.R. Ashmore and R.H. Dalrymple. 1987. Effect of cimaterol on skeletal muscle characteristics of lambs. J. Anim. Sci. 65 (suppl.1):278.
68. Y.S. Kim, Y.B. Lee and C.R. Ashmore. 1987. Cimaterol-induced growth in rats:growth pattern and biochemical characteristics. J. Anim. Sci. 65 (suppl.1):251.
69. Y.S. Kim, Y.B. Lee, W.N. Garrett and R.H. Dalrymple. 1987. Effect of cimaterol on nitrogen retention and energy utilization in lambs. J. Anim. Sci. 65 (suppl.1):277.
70. Y.S. Kim, Y.B. Lee, C.R. Ashmore and R.H. Dalrymple. 1986. Effect of repartitioning agent, cimaterol (CL 263,780), on growth, carcass characteristics and skeletal muscle cellularity of lambs. J. Anim. Sci 63 (suppl.1):221.
71. Y.B. Lee, M. Shafer, Y.S. Kim and C.R. Ashmore. 1984. Antioxidant property of ginger rhizome and its application to meat products. J. Anim. Sci.59 (suppl.1): 233.

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**ORCID:**  <https://orcid.org/0000-0002-8171-791>

**Research Gate:**  <https://www.researchgate.net/profile/Mi-Jeong_Lee>

**Education:**

May 2005 **PhD in Nutritional Biochemistry**

Rutgers, the State University of New Jersey, Department of Nutritional Sciences, New Jersey, USA

Dissertation title: Hormonal and Nutritional Regulation of Leptin Production: Importance of 3’ Untranslated Regions

Feb. 1997 **MS in Nutritional Sciences**

Seoul National University, Department of Agricultural Home Economics, College of Agriculture and Life Sciences, Republic of Korea

Dissertation title: Effects of protein intake on the growth and protein metabolism in early weaned rats

Feb. 1995 **BS in Agricultural Home Economics**

Seoul National University, Department of Agricultural Home Economics, College of Agriculture and Life Sciences, Republic of Korea

**Postdoctoral Training:**

May 2005 – Dec. 2008: Postdoctoral Fellow, Division of Endocrinology, Diabetes and Nutrition,   
University of Maryland School of Medicine, Baltimore, MD, USA

**Academic Appointments:**

Oct. 2019: Assistant Professor, Dept. of Human Nutrition, Food and Animal Sciences, CTAHR, The University of Hawaii at Manoa, Honolulu, HI, USA

Oct. 2016-Sept. 2019: Assistant Professor, Dept. of Medicine, Division of Endocrinology, Diabetes, Obesity and Metabolism Institute, Icahn School of Medicine at Mt. Sinai Hospitals, New York, NY, USA

Feb. 2015 – Sept. 2016: Assistant Professor, Dept. of Medicine, Section of Endocrinology Diabetes and Nutrition, Boston University School of Medicine, Boston, MA, USA

Feb. 2014 – Sept. 2016: Assistant Core Director for the Adipocyte Biology and Nutrient Metabolism Core, Boston Nutrition and Obesity Research Center, Boston, MA, USA

Jan. 2009 – Jan. 2015: Instructor, Boston University School of Medicine, Section of Endocrinology, Diabetes and Nutrition, Boston, MA, USA.

**Academic and Professional Honors:**

2016: *Travel Award,* NIH workshop on The Adipose Tissue Niche: Role in Health and Diseases, NIH, Bethesda, MD, USA

2015: *Travel Award*, Danish Diabetes Research Council meeting, Malaga, Spain

2012: *Faculty Development & Diversity grant*, Boston University School of Medicine, MA, USA

2007-2008: *Post-doctoral Fellowship*, American Heart Association, USA

2003: *Travel Award*, Summer FASEB conference on Obesity, Augusta, GA, USA

2000-2001: *Excellence Graduate Student Fellowship*, Rutgers University, NJ, USA

1995-1997: *Graduate Scholarship,* Seoul National University, Korea

1991-1995: *Scholarship for undergraduate study*, Seoul National University, Korea

**Other Professional Activities:**

**Manuscripts Peer Reviewer**

Diabetes, Journal of Biological Chemistry, International Journal of Obesity, Am J Physiol Endocrinol Metab, Endocrinology, Molecular Metabolism, Journal of Lipid Research, Journal of Nutrition, Journal of Nutritional Biochemistry, Scientific Reports, BBA - Molecular and Cell Biology of Lipids, BBA - General Subjects, PLoS One, Obesity, [Biochemical and Biophysical Research Communications](https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&cad=rja&uact=8&ved=0CB4QFjAAahUKEwiwmI_ZlsrHAhWBCD4KHXN1CME&url=http%3A%2F%2Fwww.journals.elsevier.com%2Fbiochemical-and-biophysical-research-communications%2F&ei=In3fVbD_DoGR-AHz6qGIDA&usg=AFQjCNHZwMmtFP2WVuvIpsGAoOZ1MFAGtQ&sig2=R7tFp4VJlMqpNAQiHquQqw), Molecular and Cellular Biochemistry, Nutrition Research and Practice, Functional Foods in Health and Disease, Nutrients, Annual Review of .

**Editorial Board Member**

Nutrition Research and Practice (2017- current)

**National Service**

Ad hoc member, AHA-Study Section, Lipids Basic Science, Oct 2013 - April 2016

##### Other Agencies – *reviewing activities*

Reviewer – P&F grants, Boston Nutrition and Obesity Research Center, Boston University, 2013-2016. P & F grants for Michigan Diabetes Research Center, 2019 -

**Local Activities**

2015-2016: Committee member of the Graduate Program in Life Science, BUSM

2014-2016: Member of Admission Committee of the Graduate Program in Nutrition and Metabolism, BUSM

2016-2019: Committee member of the Graduate Program in Biomedical Sciences at Mt. Sinai Medical School

2019-current: Committee member, Nutritional Science Graduate Program in the Dept of Human Nutrition, Food and Animal Sciences at the University of Hawaii at Manoa

### **Professional Societies**

**The Obesity Society:**

Session Chair, The Obesity Society’s 28th Annual Scientific Meeting, 2010.

**Professional Society member**

2017~ present: American Diabetes Association

2012~ present: American Society for Nutrition

2012~present: The Obesity Society

**Research Support**

Start-up Fund from CTAHR/OVCR University of Hawaii (Lee) 10/01/19-10/31/21

This provide funding to set-up research projects at the University of Hawaii.

Texas Tech University, “Come n’ Go” Domestic Research Collaboration Seed Grant, (Latha) 11/01/19-10/31/20

This provide funding for COHS faculty and a collaborator from another US Institution, to visit each other’s campuses and to design a collaborative research project. We will study “Role of Fish Oil in Paternal Obesity”.

Role: Co-I

NY Diabetes Research Center P& F Grant, 06/01/18-05/31/19, $35,000

“Role of TGFbeta signaling in adipose tissue biology”: This study addresses the importance of TGFβ signaling pathway in adipose tissue development and function.

Role: PI

1R01DK080448 (PI: Fried) 07/01/2014-09/30/19

“Glucocorticoids & adipocyte function in human obesity”: The goal of this project is to understand how glucocorticoids differentially regulate adipose tissue function in visceral vs. subcutaneous adipose tissue using both in vivo and in vitro approaches.

Role: Co-I

ADA 7-14-BS-059 (PI: Fried) 10/01/14-9/31/17

“Reprogramming Fatty Acid Handling to Improve Adipocyte Function in Human Obesity”: The objective of this proposal is to understand how alterations in fatty acid handling, focusing on FABP3 and PLIN5, contribute to a ‘brown phenotype’ in human adipocytes.

Role: Co-I

P30 DK046200NIH/NIDDK (PI: Fried) 07/01/13-09/30/16

“Boston Nutrition and Obesity Research Center”: The purpose of the Adipocyte Core is to provide euploid rodent and human undifferentiated and differentiated mass-cultured and cloned preadipocytes and freshly-isolated and cultured fat cells and products derived from these cells (RNA, DNA, protein, conditioned medium) to BNORC investigators.

Role: Co-I/Assistant Director for the Adipose Biology and Nutrient Metabolism Core

Joslin Diabetes Research Center/BUSM P & F Grant, 03/01/13-6/31/15, $35,000 per year

“Defining the phenotype of brite human adipocytes – a systems biology approach”: The goal is to elucidate pathways/networks that lead to the metabolic and endocrine differences between white and brite cells using a systems biology approach, combining transcriptome and metabolomics data.

Role: PI

BU CTSI Microarray Core, internal funding, 4/1/2014-3/31/2015, $2,400

“Glucocorticoid and TNF regulation of adipocyte transcriptome”: The goal of this proposal is to identify gene networks that are affected by glucocorticoids and TNF interactions and elucidate the molecular mechanisms by which TNF modulates glucocorticoid action in adipocyte function.

Role: PI

NIH RO1DK101711-01 (PI: Puri) 10/1/14-8/31/15

“Cidea Proteins and Regulation of Energy Expenditure”: The major the goal of this project is to identify the molecular mechanisms associated in maintaining ‘white’ and ‘brite’ phenotype of human adipocytes, with consequences for the regulation of energy expenditure and FA-induced insulin resistance in obesity and type 2-diabetes.

Role: Co-I

BU Undergraduate Research Opportunity Program (Lesman) 06/01/13-05/31/15

UROP provides research stipends and travel awards to undergraduate students at BU.

Role: Sponsor

1R01DK080448-04 NIH/NIDDK (PI: Fried) 06/01/2009 – 03/31/2014

“Glucocorticoids & adipocyte function in human obesity”: The goal of this project is to understand how glucocorticoids promote the development of obesity, and particularly visceral obesity, and its metabolic complications.

Boston University Integrated Biomedical Pilot & Feasibility Grant, 07/01/12-6/30/13, $12,000

“Depot-differences in adipocyte progenitors”: The goal is to isolate and characterize different adipogenic precursors from human adipose tissue and compare their relative abundance and characteristics between visceral and subcutaneous adipose depots.

Role: PI

R56DK094815-01A1 NIH/NIDDK (PI: Puri) 09/14/2012 – 08/31/2013

“Role of FSP27 in lipid droplet dynamics”: This proposal addresses the role of fat specific protein 27 (FSP27), a lipid droplet protein, in lipid droplet dynamics, lipid droplet fragmentation and enlargement.

Role: Co-I

NIH RO1 DK052398 (PI: Fried) 07/01/07-06/30/12

“Regulation of leptin expression in human adipose tissue”: This grant studies the hormonal and nutritional regulation of leptin production from adipocytes using both in vivo animal models and human adipose tissue explants and adipocyte culture models.

Co-I

[Interdisciplinary Studies In Sex-differences (ISIS) Network, Studies for Women’s Health Research](http://www.womenshealthresearch.org/site/PageServer?pagename=rf_isis_about) 07/01/10-06/30/11, Direct cost: $10,000

“A survey of miRNAs in adipose tissue across sex and depots”**:** The goal of this project is to survey of miRNAs in adipose tissue across sex and depot will identify one or more novel miRNAs that are important to sex differences in fat mass and distribution. miRNA data are combined with clinical data (demographics) from the ISIS project and the transcriptome analyses.

Role: PI

Pilot and Feasibility Grant from CNRU of Maryland, 1/2008-12/2008, Direct Cost: $14,800

“Role of the Glucocorticoid Receptor in Adipocyte Biology”: The goal of this project is to understand the role of glucocorticoid receptor in adipocyte metabolism and endocrine function using human adipose tissue explants and adipocyte culture system.

Role: PI

AHA Post-doctoral fellowship, 7/2007-12/2008, $35,000 per year

“TNFα regulation of glucocorticoid receptor in human adipose tissue”: This project studies how TNFα, a proinflammatory cytokine that is more abundantly expressed in obese compared lean and visceral compared to subcutaneous adipose tissue modulates glucocorticoid receptor function in adipose tissue.

Role: PI

**Teaching**

I have always enjoyed interactions with students and the main reason that I decided to pursue my career in academia was that I have the opportunity to work with next generation of scientists while continuing my independent research. I believe learning is an active process through which students acquire basic knowledge but also become independent thinkers and as a teacher and mentor, I facilitate the learning process by guiding, stimulating and challenging the students. I also believe that all individuals have his or her own strengths and weaknesses, but it is our responsibility to find out each student’s unique strengths and encourage them to develop their own great qualifications but also support them to overcome their weaknesses.

I have continuously developed my teaching skills and have taught students from diverse backgrounds both in Korea and USA as listed below. With my education and teaching experiences at multiple academic institutes, I am confident at teaching students in both seated classroom and on-line. I will create a classroom environment in which students from all backgrounds can reach their potential and learn to think as independent scientists.

* Worked as a Department Office Assistant in the Department of Agricultural Home Economics, Seoul National University, 1997-1998; assisted teaching undergraduate courses, “Nutritional Physiology”, “Food and Experimental Cookery”, “Nutrition”, “Food Preparation”.
* Part-time Lecturer, Korean National Open University, in class lecture for “Nutrition throughout the Life Cycle” course, 1998-1999.
* Teaching Assistant for “Nutrition/Biochemistry and Physiology”, Rutgers University, 2001-2002, weekly 1h recitation in class room setting and tutoring on need base. Assist journal discussion for the Nutritional Science Seminar.
* Teaching (tutoring and journal discussion), Metabolism Section in Graduate Program in Life Sciences Core Class, “Metabolism”, University of Maryland 2007-2008.
* Instructor/Assistant Professor, Boston University 2010-2016 in NU 756: “Molecular, Biochemical and Physiological Bases of Nutrition: Macronutrient Metabolism”, lecture and paper discussion “Long term regulation of nutrient absorption and metabolism: Molecular mechanisms”. “Nutrition Sciences Seminar”, guide students to present their research work. In the latter cases, I initiated those requests to increase diversity and improve my teaching portfolio. I also contributed to developments of nutritional sciences courses along with program directors, Drs. Lynn Moore and Susan Fried.
* Assistant Professor, Icahn School of Medicine at Mount Sinai Hospitals 2016 – 2019: lecture and paper discussion, “Metabolism”.
* Assistant Professor, Department of Human Nutrition, Food and Animal Sciences University of Hawaii at Monoa; Nutritional Biochemistry I & II (400 level), **Nutrition and Disease: Cellular and Molecular Aspects (600 level), Obesity (400 level),** Seminar in Nutritional Science (600 level)

**Mentoring and Training:**

I have been mentoring many students and fellows and I am confident in training and mentoring students to achieve their research qualifications. I will actively recruit and mentor students, especially from underrepresented groups, for their graduate research projects and serve as a committee member. Furthermore, I will participate in the university outreach programs and foster women and underrepresented minority undergraduate students to engage in science through summer research program or undergraduate research programs.

* Mentor, Sam Woodle (High school summer student, currently in Military Medical School), University of Maryland, School of Medicine, 2004.
* Mentor, Samuel Antwi (Undergraduate summer student, Howard University), University of Maryland, School of Medicine, 2005.
* Train and mentor, Jamie Fleenor (a research associate, currently working as a research associate at the Johns Hopkins), University of Maryland, School of Medicine, 2003-2004.
* Train and mentor, Ling Duan (a research associate, currently working as a research associate at the University of Pennsylvania), 2003-2005.
* Train Sara Fletcher (Graduate student at University of Tennessee) for 3 mon in adipose tissue organ culture and molecular biology for her MS thesis project, “Regulation of Angiotensinogen production from omental and subcutaneous human adipose tissue”, University of Maryland, School of Medicine, summer 2006.
* Train and co-mentor, Urmila Sreenivasan, MS (currently, working as a research associate in School of Medicine University of Maryland), University of Maryland, School of Medicine, 2006-2008.
* Mentor, Vicky Zhang (high school summer student, currently working as a research associate III at Teva Pharmaceuticals), University of Maryland School of Medicine, 2007-2008.
* Train and co-mentor Silvia de Barros-Mazon (currently, associate professor at University of Sao Paulo, Brazil), University of Maryland School of Medicine, 2007-2008.
* Train and co-mentor Christina Dani a MS student at University of Maryland School of Medicine, 2008.
* Train Xia Tao (graduate student at University of Massachusetts) for adipocyte biology, Boston University, summer 2009.
* Train and co-mentor, Weimin Guo, PhD, a postdoctoral fellow (BUSM), 2009-2013. He is currently working as a research fellow at Brigham Women’s Hospital.
* Mentor, Kirstin Carswell, M.D., Visiting Scholar from Kings College (BUSM), United Kingdom, 2010 (methods for adipocyte culture). After training in our laboratory, we published a method paper in *Methods Mol Biol*, “[Culture of isolated human adipocytes and isolated adipose tissue”.](http://www.ncbi.nlm.nih.gov/pubmed/22057454) She is an Assistant Professor at King's College Hospital, England.
* Train and co-mentor a visiting scholar, Dr. H. Nimitphong, with Dr. Michael Holick (BUMC), 2010-2013. Her research projects was published a paper in *PLoS-One*, “25-hydroxyvitamin D3 and 1,25-dihydroxy vitamin D3 promote the differentiation of human subcutaneous preadipocytes” where she assumed the first authorship and I was the corresponding author. Currently, we are preparing to submit another paper. She is an Assistant Professor at Mahidol Hospital, Thailand.
* Co-mentor, Mara Banks, MD/PhD student (BUMC) with Dr. Michael Holick. Currently, she is currently working as a resident at Georgia Hospitals.
* Train and mentor, a BU undergraduate student, Felicia Lesman, 2013~2015. To support her research, we applied for the Undergraduate Research Opportunity Program at Boston University and she was successfully funded for 2 years. Furthermore, she presented her research in the annual meeting of The Obesity Society, 2014: “Thiazolidinediones induction of brite phenotype in subcutaneous human adipose tissue”. Currently, she is working as a Medical Assistant at Harvard Vanguard Medical Associates - Atrius Health.
* Mentor, a visiting PhD student, Pia Villarroel from University de Chile, 2014 (BUSM). She presented her work, “Calcium sensing receptor activation in human subcutaneous adipose depots” for the annual meeting of The Obesity Society, 2014. Her poster presentation was selected as a travel award.
* Co-mentor, Yuanyan Wu, a post-doctoral fellow with Dr. Susan K. Fried (BUMC), 2011-2014, currently working as a research scientist at Pfizer Pharmaceutical. Her work, “High-fat diet-induced obesity regulates MMP3 to modulate depot- and sex-dependent adipose expansion in C57BL/6J mice” in *Am J Physiol Endocrinol Metab*.
* Co-mentor, Stephaine Knebusch Toriello, MS in Molecular Medicine (BUSM), 2014-2015: mentored her MS thesis work. She presented her thesis work in the annual meeting of BNORC, “Differences in the expression of adiporedoxin and adipokine secretion in human omental and abdominal subcutaneous adipose tissues”.
* Train and co-mentor, Simonyte-Sjodin, a post-doctoral fellow from Harvard (currently, assistant professor in Umea University, Sweden), “The effects of RBP4 on adipocyte insulin sensitivity”, 2015.
* Co-mentor, Swati Bhattacharya, a MS student in Boston University, 2014 – 2016. Currently, she is working as a clinical coordinator at Boston Medical Center.
* Co-mentor, Christine McInnis, a postdoctoral fellow with Dr. Susan K. Fried (BUMC), 2015-2016. She is currently working as a post-doctoral fellow at Harvard Medical School.
* Co-mentor, Taylor Pickering, a PhD student (BUMC) with Dr. Susan K. Fried, 2013-2017. His thesis project has been published as two papers including the recent publication in Diabetes. He is currently working as a post-doctoral fellow at Boston University School of Medicine funded by a T32 NIH training grant.
* Train and mentor, Varuna Shibad, a research associate (BUMC), 2015-2016. She is currently working as a research associate at Boston University School of Medicine.
* Train users (M. Jager, E. Killion, T. Bowman, C. Cederquist, S. Ding among others) of the Adipocyte Biology and Nutrient Metabolism Core of the NIH funded Boston Nutrition and Obesity Research Center, 2015-2016.
* Trained and mentor a post-doctoral fellow, Arwa Jawadi, and two visiting scholars from Korea, Eunmi Park (Hannam University) and Jinkyung Cho (Sungkyunkwan Univeristy) at Mt. Sinai School of Medicine, Feb. 2019-Sept. 2019.
* Currently training an undergraduate student and a PhD Student (Radha Raman Raj) in the Dept of HNFAS/ CTAHR University of Hawaii at Manoa

**Research**

**Research Interest and Goal**

Obesity is a very complex disease with multiple etiologies, leading to energy imbalance and increased risks of cardiometabolic diseases. The higher mass of dysfunctional adipose tissue in obesity may cause or exacerbate metabolic diseases (1). Adipose tissues are present in multiple locations. Beyond total fat mass, visceral obesity is independently associated with metabolic disease risk; with visceral fat as more susceptible to metabolic dysfunctions in obesity. In addition to white, more oxidative brown and brite/beige adipocytes are present in adult humans and their amount is reported to be reduced in obesity (2) and therefore, it is conceivable that increasing the number of brite adipocytes could contribute to energy dissipation and hence, weight control and protection against metabolic complications. My long-term goal is to identify new therapeutic targets to improve adipose tissue functions in obesity. Current research projects are focused on understanding 1) molecular mechanisms that lead to adipose dysfunction in obesity and 2) that mediate the conversion from white adipocyte into brown-like ones.

**1) Importance of phospholipid remodeling during conversion from white to brite adipocytes**: Brite/beige adipocytes are formed through the recruitment and differentiation of progenitors or the direct conversion from mature white adipocytes. Multiple factors including activation of PPARγ drive a more oxidative program in white human adipocytes, yet molecular details and mechanisms during the conversion are not fully elucidated. Recently, we showed significant structural remodeling, clusters of small lipid droplets surrounded by rearranged mitochondria appear on the surface of the main, central droplet, occurs during rosiglitazone mediated browning of white human adipocytes (*JLR 2019*). Formation of new lipid droplet and mitochondrial rearrangement may require synthesis of new membranes and hence, remodeling of phospholipids. Consistent with this idea, we showed that traicsin C (inhibitor of FA acyl co-A synthesis) blocked the structural remodeling. Furthermore, inhibition of FA activation blocked induction of brite makers, indicating the importance of lipid remodeling in britening program. In our unpublished lipidomics analysis showed that significant remodeling of lipids, induction of several phospholipids and polyunsaturated fatty acids (PUFAs), occurred. I am assessing the importance of remodeling of PUFA-phospholipids in enhancing metabolic flexibility of adipocytes and prevention against obesity and its associated metabolic diseases.

**1) Importance of elevated TGFβ signaling in adipose tissue dysfunction in visceral obesity:** Expression levels of TGFβ ligands are elevated in obesity. However, the role of TGFβ signaling in adipose tissue functions in human obesity remains poorly understood. In a recent paper, our group showed that high TGFβ ligands produced by adipose progenitors act as cell-autonomous anti-adipogenic factor, contributing to dysfunctions in omental visceral adipose tissue in humans (*Diabetes 2019*). In preliminary experiments, I found that high TGFβ signaling promoted fibrosis and exacerbated adipokine profile in human adipose tissues. Surprisingly, blocking TGFβ signaling with a chemical compound or knockdown of the downstream effector, SMAD2, enhanced adipogenesis and differentiated adipocytes have higher expression levels of UCP1 and PGC1α, indicating that preferential differentiation into brite adipocytes. I am studying the importance of the TGFβ-SMAD2 signaling in fibrosis and adipose endocrine and metabolic functions using in vivo and in vitro approaches.

**3) Other Research Interest:** I am collaborating with Dr. Fried (Mt. Sinai School of Medicine), my former mentor and long-term collaborator, for the studies of investing the mechanisms that govern sex-dependent depot differences in adipose tissue remodeling capacity and its contribution to metabolic health. In collaborations with Drs. Puri (Ohio University) and Fried, I am investing the importance of lipid droplet proteins (PLIN5 and CIDEA) in the remodeling of lipid droplets and mitochondria and metabolic capacity in adipocytes. I am also collaborating with Drs, N. Moustaind-Moussa (Texas Tech University) and R. Lath (Syracuse University) for the studies of the importance of dietary lipids on adipose tissue health and metabolic diseases and the impact of fraternal nutrition on offspring health. In collaboration with Dr. V Kidambi (Wisconsin Medical College), we are investigating the Role of Adiposity Distribution and MicroRNAs in Obesity Pathogenesis. In addition, I am collaborating with Drs. Nimitphong (Mahidol Univ., Thailand) and Park (Hannam Univ., Korea) for the studies of role of vitamin D in adipose tissue biology.

**Contribution to Science and Area of Excellence**

**Nutritional and hormonal regulation of leptin production:** Leptin is an adipocyte derived hormone that regulates food intake, energy utilization and immunity. In series of in vitro and in vivo experiments using human adipose tissue explants cultures, adipocytes in culture and rats as model systems, we demonstrate that leptin production is regulated at multiple levels: transcription, translation of mRNAs and secretion (*AJP-EM 2005, JLR 2006, JBC 2007, AJP-EM 2007*) and we were invited to write a review paper, “Integration of Hormonal and Nutrient Signals that Regulate Leptin Synthesis and Secretion”, published in *AJP-EM (2009)*. Our study showed that a glucocorticoid is required for high expression of leptin mRNA, insulin increases the efficiency of leptin mRNA translation as well as secretion from the cellular storage, 5‘-untranslated region (UTR) of leptin mRNA increases while 3‘-UTR depresses leptin translation, and both 5‘ and 3‘-UTR are required for insulin stimulation of leptin mRNA translational efficiency. Activation of adrenergic signaling suppresses leptin production at multiple steps, mediating fasting-suppression of leptin production from adipocytes. Our new work shows that the RNA binding protein TIAR mediates the suppression of leptin signaling the fasted state. Collectively, our work on leptin demonstrates the complexity of signals that allow the adipocyte to respond to nutritional and hormonal cues to regulate system metabolism. The mechanisms we uncovered will undoubtedly apply to the many adipokines produced by adipocytes.

**Depot differences in adipose tissue production of adipokines, discovery of novel adipokines and their contribution to metabolic diseases:** Adipose tissue produces adipokines and cytokines that regulate systemic energy metabolism. The production of inflammatory cytokines (TNFα, IL-6, IL-1β, CCL2, leptin) is upregulated while expression of adiponectin and omentin, insulin-sensitizing and anti-inflammatory adipokines, is reduced in obesity. In collaborations with Drs. Gong, Yang and Shulidner at University Maryland School of Medicine, we sequenced ~10,000 expressed sequence tags (ESTs) from a human omental fat cDNA library and discovered a novel visceral specific adipokine, omentin (*AJP-EM, 2006*). Further, we showed that ometin may act as insulin sensitizer and that its expression in adipose tissue and serum levels are decreased in human obesity (*Diabetes, 2007*). We compared transcriptome of fat cells to stromal cells of human subcutaneous and omental adipose tissue and discovered that an acute-phase protein, serum amyloid A (SAA), is highly expressed in human adipose tissue (adipocytes) in contrast to its high expression in the liver in rodents. Our study showed that SAA is more abundantly expressed in the subcutaneous than visceral depots and expression levels of SAA in adipose tissues and serum levels are increased in human obesity and may increase C reactive protein production, increasing risks for cardiovascular diseases (*PLoS-Med 2006, Obesity 2014*).

In collaboration with Dr. Kern’s research group at the University of Arkansas, we showed that other adipokines including visfatin, retinol binding protein 4 and thrombospondin 1 are also depot dependently expressed and its expression in adipose tissues and serum levels are altered, contributing to the higher risks of insulin resistance and metabolic diseases in human obesity (*JCEM 2006, JCEM 2007, Diabetes 2008*).

**The effects of glucocorticoids in depot-specific adipose biology:** Glucocorticoids play pleiotropic roles in adipose tissue biology including metabolic and endocrine functions and adipose tissue development. Excess glucocorticoids as seen in Cushing’s syndrome, are through to promote fat accumulation preferentially in visceral compared to subcutaneous depots, but the molecular mechanisms involved remain poorly understood. We elucidated the mechanisms through which glucocorticoids regulate adipose tissue function (adipokine production and lipid metabolism) and adipogenesis in different adipose depots. Using the adipose explants organ culture system which contains multiple cell types, we showed a feedforward regulation of 11-beta hydroxysteroid dehydrogenase in omental but not in subcutaneous adipose tissue that contribute to the preferential fat accumulation in the visceral depot (*Obesity, 2008*). Our studies in newly-differentiated adipocyte in culture that majority of glucocorticoid effects (induction of adipogenesis and adipokine production) are mediated through the type II glucocorticoid receptor rather than type 1 mineralocorticoid receptor (*IJO 2014*).

Gene expression profiling of human omental and subcutaneous adipose tissues treated with dexamethasone, the type II glucocorticoid receptor agonist, identified genes and pathways that are commonly or depot-specifically regulated by glucocorticoids between the depots (*AJP-EM 2011*). Gene set enrichment analysis of transcriptome of omental and subcutaneous human adipose tissues treated with different concentration of dexamethasone identified biological pathways that are affected by glucocorticoids, commonly and depot-specifically between the two depots. Cluster analysis of transcripts that exhibited an interaction of depot and dexamethasone revealed sets of genes for which the responses to dexamethasone differed in magnitude, sensitivity or direction between the two depots as well as mRNAs that responded only in one depot (*PLoS-One 2016*). I am collaborating with Dr. Fried at MSSM to investigate the importance of these findings for the glucocorticoid-mediated regulation of adipose biology, commonly or depot-specifically.  We were invited to write a review, “Deconstructing the roles of glucocorticoids in adipose tissue biology and the development of central obesity”, published in *BBA (2014)*.

We also demonstrated that glucocorticoid induced leucine zipper (GILZ), a primary target of glucocorticoids identified in our transcriptomics in human adipose tissues, are commonly induced in both depots and at least partially, mediates the effects of glucocorticoids on adipokine production and inflammation in human adipocytes. Expression levels of GILZ are reduced in adipose tissue of human obesity, potentially contributing to the higher inflammation (*JLR 2016*). Our unpublished research in human adipose stem cells showed that GILZ also mediates the proadipogenic effects of glucocorticoids by reducing the anti-adipogenic cytokine signaling pathways (*manuscript in preparation*).

**Development of protocols to isolate adipose progenitors, improve their adipogenic degree and their use for gene expression modulation and metabolic studies:** Although mouse adipocyte cells lines provide invaluable model systems for mechanistic studies, adipose tissue derived stems cells (ASCs) are also useful for assessing donor- and origin-dependent effects (depot, sex, age, obesity, etc) on cell proliferation and differentiation capacity, which is not possible with cell lines. I developed and optimized the growth and differentiation protocols for human ASCs. In addition, I developed detailed protocols to use newly-differentiated human adipocytes for metabolic studies (lipolysis and glucose transport) and siRNA mediated gene silencing and overexpression of genes of interests. Use of human adipocytes are increasing due to its clinical relevance compared to the mouse cell lines and I have provided our protocols to many investigators both nationally and internationally. Primary cultures of ASCs are heterogeneous in cell populations and therefore, I have developed methods to identify adipocyte progenitor populations with Fluorescence-Activated Cell Sorting and immunoprecipitation with magnetic nanoparticles. I developed and standardized these protocols while working as an assistant core director for the Adipocyte Biology and Nutrient Metabolism Core, Boston Nutrition and Obesity Research Center. These are published as 4 method papers (*Methods in molecular biology 2013, Obesity 2012, ME 2014, Obesity 2014*) and many investigators have been asking the papers. Further, I was invited to write a paper, “Hormonal Regulation of Adipogenesis”, in in the prestigious journal, *Compr. Physiol. (2017)*. As an assistant core director, I also provided hands-on training on adipose tissue biology as well as consultation and advice on the experimental design and data interpretation, greatly broadening the technical capacities of the Core. I also actively participated in the application process for the renewal of BNORC.

**Depot differences in adipogenesis and their clinical relevance:** During normal growth and in response to overnutrition, adipose tissue expands by increasing the volume of preexisting adipocytes (hypertrophy) or by generating new adipocytes through recruitment and differentiation of adipose progenitors (hyperplasia). The inability to recruit new progenitors and differentiate them into adipocytes results in increases in the size of existing adipocytes and may also results in ectopic fat deposition in other organs including liver and skeletal muscle, which is known to be critical for the development of obesity-related metabolic diseases including insulin resistance. The impaired capacity of visceral compared to subcutaneous adipose tissues to remodel and expand through hyperplasia is thought to account for dysfunctions in the depot and hence, the association of visceral adiposity with insulin resistance and metabolic health. In collaboration with Drs. Wu and Fried, we showed that adipose progenitors from visceral vs. subcutaneous or male vs. female mice exhibit lower adipogenesis and they accumulate in the depot in response to high fat diet induced obesity, contributing to the dysfunctions in the depot as well as systemic metabolism (*AJP-EM 2017*). We found that balance of MMP3, a matrix metalloproteinase that is expressed at much higher levels in inguinal than visceral and female than male mice, and its inhibitor, TIMP4, contribute to the sex-dependent depot differences in adipogenesis. Using fat transplant studies, we are investigating whether intraabdominal or inguinal subcutaneous fat of male vs. female contain intrinsic properties to regulate adipose growth and hence, systemic glucose-insulin metabolism.

Using adipose tissue stem cells derived from human adipose tissues and adipose tissue samples, we also investigated factors governing depot differences in adipose tissue remodeling capacity and function in humans. In a recent paper, we showed that TGFβ signaling is important for the lower hyperplastic remodeling capacity contributing to tissue fibrosis in the omental visceral adipose tissues in human obesity (*Diabetes 2019*). I recently published a review, “TGFbeta Superfamily Regulation of Adipose Tissue Biology in Obesity” in *BBA-DIS (2018).* In collaborations with Dr. Smith using transcriptome and miRNome, our group also showed that developmental heterogeneities between the upper and lower body subcutaneous adipose tissues (*JCEM 2014, Obesity 2017*).

I have been invited to write reviews and one book chapter. I wrote 4 reviews in the topic of adipose depot differences and metabolic health, “Adipose tissue remodeling in pathophysiology of obesity” (*Curr Opin Clin Nutr Metab Care 2010*), “Adipose tissue heterogeneity: Implication of depot differences in adipose tissue for obesity complications” (*Mol Aspects Med 2013*), “Shaping fat distribution: New insights into the molecular determinants of depot- and sex-dependent adipose biology” (*Obesity 2015*), “[Sex-dependent Depot Differences in Adipose Tissue Development and Function; Role of Sex Steroids](http://www.jomes.org/journal/view.html?uid=713&&vmd=Full)” (*Int Obes Metab Syndr 2017*). Additionally, I wrote “Adipose Tissue in Health and Disease, Chapter 15. Depot-Specific Biology of Adipose Tissues: Links to Fat Distribution and Metabolic Risk” (*Wiley-VCH Verlag GmbH & Co 2010*). These reviews have been highly cited, an additional testament of my contribution to the field.

**Invited Lectures and Presentations**

Aug. 2004 “Feeding and insulin increase leptin production in rat adipose tissue”, FASEB summer conference, Colorado, USA. *Oral presentation*

Oct. 2006 “Post-transcriptional modulation of glucocorticoid receptors in human adipose tissue” International Congress of Obesity, Sidney, Australia. *Oral presentation*

May 2008 “Depot-specific effects of glucocorticoid on gene expression in human abdominal subcutaneous and omental adipose tissues”, NIH workshop on adipose tissue maintenance and remodeling. Bethesda, MD, USA. *Oral presentation*

May 25, 2010 “Glucocorticoid regulation of adipose tissue biology”, Boston Nutrition and Obesity Research Center Adipocyte & Metabolic Study group seminar series. Boston, MA, USA *Oral presentation*

Oct. 2010 “[Glucocorticoids Antagonize Tumor Necrosis Factor-alpha Induced Lipolysis in Human Adipocytes](http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=3&SID=1FIAdG6Hfg9J9i6g@lc&page=1&doc=4&colname=WOS)”, The Obesity Society Annual Meeting, San Diego, USA. *Oral presentation*

April 2013 “1,25(OH)2D3 decreases leptin, IL-6 and SAA expression in human adipocytes: role of vitamin D receptor”, Experimental Biology, American Society for Nutrition, Annual Meeting, Boston, USA. *Oral presentation*

Nov. 2014 “T**hiazolidinediones** induction of brite phenotype in subcutaneous human adipose tissue”, The Obesity Society Annual Meeting, Boston, USA. *Oral presentation*

Mar. 13, 2015 “Can we briten human adipocytes?”, Center of Animal Biotechnology and Gene Therapy and Department of Biochemistry and Molecular Biology, School of Veterinary Medicine, Universitat Autònoma de Barcelona, Spain

April 08, 2015 “Rosiglitazone Induction of Britening in Human Adipose Tissue”, James C. Melby, M.D. Memorial Endocrinology Grand Rounds, Boston University School of Medicine, Boston, MA, USA

Sept. 2015 “Secretory factors produced by cultures of human omental adipose stem cells inhibit adipose differentiation”, New York Regional Obesity Forum, New York, NY, USA. *Oral presentation*

Aug. 6, 2016 “Glucocorticoid Regulation of Adipose Inflammation in Obesity”, FASEB Science Research Conference onImmunological Aspects of Obesity, Big Sky, Montana, USA.

Nov. 2016 “High Fat Diet-Induced Obesity Downregulates MMP3 to Modulate Depot- and Sex-dependent Adipose Expansion in C57BL/6J Mice”, NIH workshop on The Adipose Tissue Niche: Role in Health and Diseases, *Oral presentation, Selected for Travel Award*, NIH, Bethesda, MD, USA

Mar. 28, 2017 “Glucocorticoid-TGFβ cross-talk contributes to the lower adipogenic capacity of human adipose stem cells”, Mount Sinai Obesity Forum, Manhattan, NY, USA

April 13, 2017 Diabetes, Obesity and Metabolism Institute Work in Progress Seminar Series, “Resistance to Glucocorticoid Suppression of TGFβ Signaling Pathway Contributes to the Low Adipogenic Capacity of Visceral Adipose Progenitors”. Manhattan, NY, USA.

Feb. 26, 2018 Diabetes, Obesity and Metabolism Institute Work in Progress Seminar Series, “Britening of human white adipose tissue”, Manhattan, NY, USA.

June 2018 “Reprograming of Human Adipocytes to a Briter Phenotype – Enhanced Fatty Acid Oxidation and Lipid Droplet Remodeling”, *Oral Presentation*, American Diabetes Association, 78th Scientific Session, Orlando, FL, USA.

Oct. 16, 2018 “Contribution of sex and depot dependent differences in adipose tissue remodeling capacity to metabolic diseases”, Gyeongpuk National University School of Medicine, Center for Developing Treatment for Diabetes and Metabolic Diseases, Daegu, Korea.

Oct. 18, 2018 “Impaired remodeling capacity of visceral adipose tissue in obesity”, The Korean Nutrition Society – 2018 Annual Conference, Pyeongchang, Korea.

Oct. 23, 2018 “Lower remodeling capacity in visceral adipose tissues of human obesity”, Renowned International Scholar Lecture Series, Pusan National University, Pusan, Korea.

Oct. 24, 2018 “Accumulation of Dysfunctional Adipose Tissues Contributes to Metabolic Diseases in Obesity”, Hannam University, Department of Food and Nutritional Sciences, Daejeon, Korea.

March 04, 2019 Diabetes, Obesity and Metabolism Institute Work in Progress Seminar Series, “Structural and metabolic remodeling during conversion from white into briter human adipocytes”, Manhattan, NY, USA.

June 25, 2019 “Harnessing Adipose Tissue Functions to Improve Systemic Metabolism”, Pusan National University, Pusan, Korea.

Oct. 29, 2019 “Structural and Metabolic Remodeling during Britening of White Adipocytes”, Texas Tech University, TX, USA.

**Bibliography**

A full list of 54 publications is available at:

<https://www.ncbi.nlm.nih.gov/sites/myncbi/1jWEf87uax8Ax/bibliography/41993006/public/?sort=date&direction=ascending>

A full list of 56 publications is available at: https://orcid.org/0000-0002-8171-7913

**Peer Reviewed Articles:**

1: Park MN, **Lee MJ,** and Lee YS, Effects of Dietary Protein Levels on Organ Growth and Protein Metabolism in Early and Normally Weaned Rats. Korean Journal of Nutrition 31(1): 5-12, 1998.

2: Wang Y, Sullivan S, Trujillo M, Lee MJ, Schneider SH, Brolin RE, Kang YH, Werber Y, Greenberg AS, Fried SK. Perilipin expression in human adipose tissues: effects of severe obesity, gender, and depot. Obes Res. 2003 Aug;11(8):930-6.

3: **Lee MJ\***,Ricci MR**\***, Russell CD, Wang Y, Sullivan S, Schneider SH, Brolin RE, Fried SK. Isoproterenol decreases leptin release from rat and human adipose tissue through posttranscriptional mechanisms. Am J Physiol Endocrinol Metab. 2005 Apr;288(4):E798-804. Epub 2004 Dec 7. \*equal first author.

4: Trujillo ME, **Lee MJ,** Sullivan S, Feng J, Schneider SH, Greenberg AS, Fried SK. Tumor necrosis factor alpha and glucocorticoid synergistically increase leptin production in human adipose tissue: role for p38 mitogen-activated protein kinase. J Clin Endocrinol Metab. 2006 Apr;91(4):1484-90. Epub 2006 Jan 10.

5: Yang RZ, **Lee MJ,** Hu H, Pray J, Wu HB, Hansen BC, Shuldiner AR, Fried SK, McLenithan JC, Gong DW. Identification of omentin as a novel depot-specific adipokine in human adipose tissue: possible role in modulating insulin action. Am J Physiol Endocrinol Metab. 2006 Jun;290(6):E1253-61. Epub 2006 Mar 10.

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11: **Lee MJ**, Wang Y, Ricci MR, Sullivan S, Russell CD, Fried SK. Acute and chronic regulation of leptin synthesis, storage, and secretion by insulin and dexamethasone in human adipose tissue. Am J Physiol Endocrinol Metab. 2007 Mar;292(3):E858-64. Epub 2006 Nov 22.

12: Yao-Borengasser A, Varma V, Bodles AM, Rasouli N, Phanavanh B, **Lee MJ**, Starks T, Kern LM, Spencer HJ 3rd, Rashidi AA, McGehee RE Jr, Fried SK, Kern PA. Retinol binding protein 4 expression in humans: relationship to insulin resistance, inflammation, and response to pioglitazone. J Clin Endocrinol Metab. 2007 Jul;92(7):2590-7. Epub 2007 Jun 26.

13: Berk ES, Johnson JA, **Lee M**, Zhang K, Boozer CN, Pi-Sunyer FX, Fried SK, Albu JB. Higher post-absorptive skeletal muscle LPL activity in African American vs. non-Hispanic White pre-menopausal women. Obesity. 2008 Jan;16(1):199-201.

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15: **Lee MJ\***, Fried SK, Mundt SS, Wang Y, Sullivan S, Stefanni A, Daugherty BL, Hermanowski-Vosatka A. Depot-specific Regulation of the Conversion of Cortisone to Cortisol in Human Adipose Tissue*.* Obesity 2008 Jun;16(6):1178-85. Epub 2008 Apr 3. \*correspondence

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21: **Lee MJ**\*, Fried SK\*. Glucocorticoids antagonize tumor necrosis factor-α-stimulated lipolysis and resistance to the antilipolytic effect of insulin in human adipocytes. Am J Physiol Endocrinol Metab. 2012 Nov 1;303(9):E1126-33. doi: 10.1152/ajpendo.00228.2012. Epub 2012 Sep 4. PMID:22949029; PMCID: PMC3492859. \*co-correspondence

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24: Grahn TH, Zhang Y, **Lee MJ**, Sommer AG, Mostoslavsky G, Fried SK, Greenberg AS, Puri V. FSP27 and PLIN1 interaction promotes the formation of large lipid droplets in human adipocytes. Biochem Biophys Res Commun. 2013 Mar 8;432(2):296-301. doi: 10.1016/ j.bbrc.2013.01.113. Epub 2013 Feb 8. PMID: 23399566.

25: Chakrabarti P, Kim JY, Singh M, Shin YK, Kim J, Kumbrink J, Wu Y, **Lee MJ**, Kirsch K, Fried SK, and Kandror K. Insulin inhibits lipolysis in adipocytes via the evolutionary conserved mTORC1-Egr1-ATGL-mediated pathway. Mol Cell Biol. 2013 Sep;33(18):3659-66. doi: 10.1128/MCB.01584-12. Epub 2013 Jul 15. PMID:23858058.

26: **Lee MJ**\*, Fried SK. Optimal protocol for the differentiation and metabolic analysis of human adipose stromal cells. Methods Enzymol. 2014 (Feb);538:49-65. doi:10.1016/B978-0-12-800280-3.00004-PMID: 24529433. \*co-correspondence.

27: **Lee MJ**\*, Pickering RT, Puri V\*. Prolonged efficiency of siRNA-mediated gene silencing in primary cultures of human preadipocytes and adipocytes. Obesity (Silver Spring). 2014 Apr;22(4):1064-9. doi: 10.1002/oby.20641. Epub 2013 Dec 5. PMID: 24307633. \*co-correspondence.

28: Yang RZ, Blumenthal JB, Glynn NM, **Lee MJ,** Goldberg AP, Gong DW, Ryan AS. Decrease of circulating SAA is correlated with reduction of abdominal SAA secretion during weight loss. Obesity (Silver Spring). 2014 Apr;22(4):1085-90.doi: 10.1002/oby.20657. Epub 2013 Dec 6. PMID: 24311467.

29: **Lee MJ**\*, Fried SK\*. The glucocorticoid receptor, not the mineralocorticoid receptor, plays the dominant role in adipogenesis and adipokine production in human adipocytes. Int J Obes (Lond). 2014 Sep;38(9):1228-33. doi: 10.1038/ijo.2014.6. Epub 2014 Jan 16. PMID:24430397. \*co-correspondence.

30: Ding SY, **Lee MJ**, Summer R, Liu L, Fried SK, Pilch PF. Pleiotropic effects of cavin-1 deficiency on lipid metabolism. J Biol Chem. 2014 Mar 21;289(12):8473-83. doi: 10.1074/jbc.M113.546242. Epub 2014 Feb 7. PMID: 24509860.

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32: Singh M, Kaur R, **Lee MJ**, Pickering RT, Sharma VM, Puri V, Kandror KV. Fat specific protein 27 inhibits lipolysis by facilitating the inhibitory effect of Egr1 on transcription of adipose triglyceride lipase. J Biol Chem. 2014 May 23;289(21):14481-7. doi: 10.1074/ jbc.C114.563080. Epub 2014 Apr 17.

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35: Jedrychowski MP, Liu LB, Laflamme CJ, Karastergiou K, Meshulam T, Ding SY, Wu Y, **Lee MJ**, Gygi SP, Fried SK and Pilch PF. Adiporedoxin, an upstream regulator of ER oxidative folding and protein secretion in adipocytes. Molecular Metabolism. 2015 Sep 18;4(11):758-70. doi: 10.1016/j.molmet.2015.09.002. eCollection 2015 Nov.

36: Lillis AP, Muratoglu SC, Au DT, Migliorini M, **Lee MJ**, Fried SK, Mikhailenko I, Strickland DK. LDL Receptor-Related Protein-1 (LRP1) Regulates Cholesterol Accumulation in Macrophages. [PLoS One.](http://www.ncbi.nlm.nih.gov/pubmed/clipboard) 2016 Jan 21;11(1):e0147457. doi: 10.1371/journal.pone.0147457.

37: Karastergiou K, Bredella MA, **Lee MJ**, Smith SR, Fried SK, Miller KK. Growth hormone receptor expression in human gluteal versus abdominal subcutaneous adipose tissue: Association with body shape. Obesity (Silver Spring). 2016 Mar 26. doi: 10.1002/oby.21460. [Epub ahead of print], PMID: 27015877.

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39: **Lee MJ**\*, Pickering RT\*, Karastergiou K, Gower A, Fried SK. Depot Dependent Effects of Dexamethasone on Gene Expression in Human Omental and Abdominal Subcutaneous Adipose Tissues from Obese Women. PLoS one. 2016; 11(12):e0167337. PMID: 28005982. \*equal first author.

40: Cederquist CT, Lentucci C, Martinez-Calejman C, Hayashi V, Orofino J, Guertin D, Fried SK, **Lee MJ**, Cardamone MD, Perissi V. Systemic insulin sensitivity is regulated by GPS2 inhibition of AKT ubiquitination and activation in adipose tissue. Molecular Metabolism. 2016 Oct 31;6(1):125-137. doi: 10.1016/j.molmet.2016.10.007. eCollection 2017 Jan. PMID: 28123943.

41: **Lee MJ**\*, Wu Y\*, Ido Y, Fried SK. High-fat diet-induced obesity regulates MMP3 to modulate depot- and sex-dependent adipose expansion in C57BL/6J mice. Am J Physiol Endocrinol Metab. 2017 Jan 1;312(1):E58-E71. doi:10.1152/ajpendo.00128.2016. Epub 2016 Nov 22. PMID: 27879248. \*equal first author. Selected for **APS*select Award****,* a collection from the American Physiological Society that showcases some of the best recently published articles in physiological research.

42: Killion EA, Reeves AR, El Azzouny MA, Yan QW, Surujon D, Griffin JD, Bowman TA, Wang C, Matthan NR, Klett EL, Kong D, Newman JW, Han X, **Lee MJ,** Coleman RA, Greenberg AS. A role for long-chain acyl-CoA synthetase-4 (ACSL4) in diet-induced phospholipid remodeling and obesity-associated adipocyte dysfunction. Molecular Metabolism. Mar;9:43-56. doi: 10.1016/j.molmet.2018.01.012. Epub 2018 Jan 31. PMID: 29398618.

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44: **Lee MJ**\*, Pickering RT, Shivad V, Layne MD, Karastergiou K, Jagar M, and Fried SK. “Resistance to the glucocorticoid-mediated suppression of the TGFβ pathway contributes to the poor adipogenic capacity of human visceral adipose tissue stem cells”. [Diabetes.](https://www.ncbi.nlm.nih.gov/pubmed?term=Shibad%20V&cmd=correctspelling) 2019; 68(3):587-597, [Epub ahead of print]; 2018 Dec 7. pii: db180955. doi: 10.2337/db18-0955. PMID: 30530781, *\*first and corresponding author.*

45: **Lee MJ**\*, Jash S, Jones JEC, Puri V, and Fried SK. “Rosiglitazone remodels the lipid droplets and britens humans visceral and subcutaneous adipocytes ex vivo”. Journal of Lipid Research. 2019 60:(4) 856-868, [Epub ahead of print]; 2019 Feb 19. pii: jlr.M091173. doi: 10.1194/jlr.M091173. PMID: 30782959, \*first and corresponding author.

46: Jash S, Banerjee S, **Lee MJ**, Farmer SR, Puri V. [CIDEA Transcriptionally Regulates UCP1 for Britening and Thermogenesis in Human Fat Cells.](https://www.ncbi.nlm.nih.gov/pubmed/31563853/)iScience. 2019 Sep 13;20:73-89. doi: 10.1016/j.isci.2019.09.011. [Epub ahead of print] PubMed PMID: 31563853.

47: Wang L, Sinnott-Armstrong N, Wagschal A, Wark AR, Camporez JP, Perry RJ, Ji F, Sohn Y, Oh J, Wu S, Chery J, Moud BN, Saadat A, Dankel SN, Mellgren G, Tallapragada DSP, Strobel SM, **Lee MJ**, Tewhey R, Sabeti PC, Schaefer A, Petri A, Kauppinen S, Chung RT, Soukas A, Avruch J, Fried SK, Hauner H, Sadreyev RI, Shulman GI, Claussnitzer M, Näär AM. [A MicroRNA Linking Human Positive Selection and Metabolic Disorders.](https://pubmed.ncbi.nlm.nih.gov/33058756/) Cell. 2020 Oct 13:S0092-8674(20)31158-2. doi: 10.1016/j.cell.2020.09.017. Online ahead of print.PMID: 33058756.

48: Nimitphong H, Guo W, Holick MF, Fried SK and **Lee MJ\*** Vitamin D inhibits adipokine production and inflammatory signaling through the vitamin D receptor in human adipocytes, *\*corresponding author, submitted to Obesity*

**Invited Review Papers:**

1: **Lee MJ** and Fried SK. The adipocyte as an endocrine cell: integration of hormonal and nutrient signals that regulate leptin synthesis and secretion. Am J Physiol Endocrinol Metab 2009 Jun;296(6):E1230-8. doi: 10.1152/ajpendo.90927.2008. Epub 2009 Mar 24. PMID:19318513.

2: **Lee MJ**, Wu Y, and Fried SK. Adipose tissue remodeling in pathophysiology of obesity. Curr Opin Clin Nutr Metab Care. 2010 Jul;13(4):371-6. doi: 10.1097/MCO.0b013e32833aabef. PMID:20531178.

3: **Lee MJ**, Wu Y, and Fried SK. Adipose tissue heterogeneity: Implication of depot differences in adipose tissue for obesity complications. Mol Aspects Med. 2013 Feb;34(1):1-11. doi: 10.1016/j.mam.2012.10.001. Epub 2012 Oct 13. PMID:23068073.

4: **Lee MJ\***, Pramyothin P, Karastergiou K, and Fried SK. Deconstructing the roles of glucocorticoids in adipose tissue biology and the development of central obesity. Biochim Biophys Acta. 2014 Mar;1842(3):473-81. doi: 10.1016/j.bbadis.2013.05.029. Epub 2013 Jun 2. PMID:23735216, *\*first and correspondence.*

5: Fried SK, **Lee MJ**, Karastergiou K. Shaping fat distribution: New insights into the molecular determinants of depot- and sex-dependent adipose biology. Obesity (Silver Spring). 2015 Jul;23(7):1345-52. doi: 10.1002/oby.21133. Epub 2015 Jun 7. PMID: 26054752.

6: **Lee MJ\*** and Fried SK. [Sex-dependent Depot Differences in Adipose Tissue Development and Function; Role of Sex Steroids](http://www.jomes.org/journal/view.html?uid=713&&vmd=Full), J Obes Metab Syndr 2017;26:172-180. [https://doi.org/10.7570 /jomes.2017.26.3.172](https://doi.org/10.7570%20/jomes.2017.26.3.172). *\*first and correspondence*.

7: **Lee MJ.** Hormonal Regulation of adipogenesis, Comprehensive Physiology, 2017 Sep 12;7(4):1151-1195. doi: 10.1002/cphy.c160047. PMID: 28915322.

8: **Lee MJ**. Transforming growth factor beta superfamily regulation of adipose tissue biology in obesity. Biochimica et Biophysica Acta. Molecular Basis of Diseases. 2018 Apr;1864(4 Pt A):1160-1171. doi: 10.1016/j.bbadis.2018.01.025. PMID: 29409985.

9: [Nimitphong](https://pubmed.ncbi.nlm.nih.gov/?sort=date&term=Nimitphong+H&cauthor_id=31193067) H, Park E and **Lee MJ\***.Vitamin D regulation of adipogenesis and adipose tissue functions, *\* corresponding author, accepted for publication in Nutrition Research Practice.*

**Textbook Chapter:**

**Lee MJ** and Susan K. Fried, Adipose Tissue in Health and Disease, Chapter 15. Depot-Specific Biology of Adipose Tissues: Links to Fat Distribution and Metabolic Risk. Wiley-VCH Verlag GmbH & Co. KGaA. <https://doi.org/10.1002/9783527629527.ch15>. EID: 2-s2.0-84885550848

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# Education

University of Missouri-Columbia Food Science PhD 2004

University of Missouri-Columbia Statistics MS 2005

China Agricultural University Microbiology MS 1997

China Agricultural University Microbiology BS 1994

# Professional Appointments

2011 - Present Associate Professor, College of Tropical Agriculture & Human Resources, University of Hawaii

2005 - 2011 Assistant Professor, College of Tropical Agriculture & Human Resources, University of Hawaii

2004 - 2005 Post-Doctoral Associate, Department of Food Science, University of Missouri

1998 - 2004 Graduate Research Assistant, Dual majored in Food Science and Statistics,

University of Missouri

# Courses Offered at University of Hawaii at Manoa

* FSHN 403. Microbiology of Foods
* FSHN 440. Food Safety
* FSHN 494. Food Product Development Capstone Course
* FSHN 701. Rapid Detection and Fingerprinting of Microbes in Food

# Referred Journal Publications (Past 5 Years)

* Diaz, L., Li, Y., and Jenkins, D.M. 2020. Chemical stabilization of Escherichia coli for enhanced recovery with a handheld electroflotation system and detection by Loop-mediated Isothermal AMPlification. PLOS One (in press)
* Ban, G.H., Li, Y., Wall, M.M., and Jun, S. 2020. A nanoengineered stainless steel surface to combat bacterial attachment and biofilm formation. Foods 9: Article No. 1518. DOI:10.3390/foods9111518
* Diaz, L., Li, Y., Kubota, R, and Jenkins, D.M. 2019. Characterization of a portable, non-instrumented incubator for enrichment of Escherichia coli O157:H7 and Salmonella serovar Typhimurium and detection by loop mediated isothermal amplification. Food

1

Protection Trends 39:40-50

* Ban, G.H., Rungraeng, N., Li, Y., and Jun, S. 2018. Nanoporous stainless steel surfaces for anti-bacterial adhesion performances. Transactions of the ASABE 61:1175-1179
* Diaz, L., Jenkins, D.M., Kubota, R., Walter, N., Li, Y., and McNeal, T. 2018. Electroflotation of *Escherichia coli* improves detection rates by loop-mediated isothermal amplification. Transactions of the ASABE 61:1209-1220
* Ban, G.H., Lee, J., Choi, C.H., Li, Y., and Jun. S. 2017. Effect of nanopatterned aluminum surface with oil-impregnation for antibacterial performance. LWT-Food Science and Technology 84:359-363
* Zhao, L., Li, Y., Jiang, L., and Deng, F. 2016. Determination of fungal community diversity in fresh and traditional Chinese fermented pepper by pyrosequencing. FEMS Microbiology Letters 363(24): Article No. fnw273. DOI: 10.1093/femsle/fnw273
* Klinger-Bowen, R., Tamaru, C., McGovern-Hopkins, K., Li, Y., Francis, S., Soto, E. 2016. Dynamics of piscine francisellosis differs amongst Tilapia species (Oreochromis spp.) in a controlled challenged with Francisella noatunensis subsp. Orientalis. Journal of Fish Diseases 39:1305-1312

# Extension Publications (Past 5 Years)

* Keliikuli, A., Wang, K.H., Li, Y., and Lee, C.N. 2019. Natural Farming: Comparison of phosphorus-solubilizing and nitrogen-fixing bacteria among Korean Natural Farming (KNF), organic (ORG), and conventional (CON) farming methods. UH CTAHR Extension Publication SA-20
* Lee, C.N., and Li, Y. 2018. Poi: a super food, native tradition, nature’s gift. UH CTAHR Extension Publication

# Synergistic Activities

* Chair, Departmental Scholarship Committee, University of Hawaii at Manoa, 2019-present
* Graduate Chair, Food Science Program, University of Hawaii at Manoa, 2006-2020
* Chair, Departmental Personnel Committee, University of Hawaii at Manoa, 2019-2020
* Chair, Search Committee for Food Science Instructor, University of Hawaii at Manoa, 2018
* Chair, Departmental Personnel Committee, University of Hawaii at Manoa, 2013-2014
* Co-Chair, Departmental Policies and Procedures Committee, University of Hawaii at Manoa, 2007-2014
* Departmental Personnel Committee (elected), University of Hawaii at Manoa, 2012-2014,

2015-2017, 2017-2019, 2019-2021

* Search Committee for Food Science Assistant Professor, University of Hawaii at Manoa, 2017-2018
* Search Committee for Animal Physiology Assistant Professor, University of Hawaii at Manoa, 2015-2016
* Search Committee for Human Nutrition Assistant Professor, University of Hawaii at Manoa,

2013-2014

* College 3+2 Undergraduate-Graduate International Program Joint Management Committee, 2015-present
* College Faculty Senate, University of Hawaii at Manoa, 2011-2013, 2016-2018
* Judge, College Annual Student Research Symposium, University of Hawaii at Manoa, 2006-2018
* College Search Committee for Farm Food Safety Assistant Extension Agent, 2015-2016
* College Scholarship Committee, University of Hawaii at Manoa, 2008
* Judge, Undergraduate Research Opportunities Program (UROP) Poster Competition, University of Hawaii at Manoa, 2017, 2019
* Panel Member, Research Ethics and Integrity Program, University of Hawaii, 2013-2014
* Institutional Biosafety Committee (IBC) Microbiology Subcommittee, University of Hawaii, 2007-2010
* Treasurer and Membership Chair, Hawaii Institute of Food Technologists (HIFT), 2011-2019
* Panel Member, US Department of Agriculture-National Institute of Food and Agriculture (USDA-NIFA) Novel Foods and Innovative Manufacturing Technologies Competitive Grant Program, 2019
* Panel Member, USDA-NIFA Improving Food Quality Competitive Grant Program, 2018
* Reviewer, USDA-NIFA Exploratory Research Competitive Grant Program, 2017
* Reviewer, Ohio Agricultural Research and Development Center (OARDC) Research Enhancement Competitive Grant Program, 2010, 2011
* Judge, Institute of Food Technologists (IFT) Biotechnology Division Graduate Student Poster Competition, Chicago, 2010
* Reviewer, National Science Foundation of China (NSFC) Food Science Competitive Grant Program, 2013-2014
* Panel Member, National Science Foundation of China (NSFC) Food Science Competitive Grant Program, Beijing, 2012
* Ad hoc reviewer for Genome, Microbiome, Scientific Reports, Nutrition Reviews, Food Microbiology, Archives of Microbiology, Food Biotechnology, Journal of Applied Microbiology, Journal of Food Quality, Letters in Applied Microbiology, Journal of Food Science, Journal of Food Science Education, Canadian Journal of Plant Pathology, Clinical Chemistry, Journal of Agricultural and Food Chemistry, FEMS Microbiology Letters, Journal of Food Composition and Analysis

# Graduate Students (Past 5 Years)

## As chair of graduate committee

* Solange Saxby, Graduated in 2020, Ph.D. in Nutritional Science, The potential of taro as a dietary prebiotic source for the prevention of colorectal cancer
* Biyu Wu, 2019-present, Ph.D. in Nutritional Science, Antimicrobial effect of polyphenols in coffee cherry and their implications in gut health
* Lianger Dong, 2018-present, Ph.D. in Nutritional Science, Uncover the symbiotic properties of poi
* Andrea Flores Calle, Graduated in 2020, M.S. in Food Science, Effect of anthocyanins in Okinawan sweet potato on growth and physicochemical properties of Salmonella Typhimurium and Listeria monocytogenes
* Biyu Wu, Graduated in 2019, M.S. in Food Science, Rapid and sensitive detection of pathogenic bacteria in chicken products by single tube nested real time PCR
* Ann Wallace, Graduated in 2019, M.S. in Nutritional Science, Purple sweet potato: cultural importance and potential as a functional food
* Xiaohan Liu, Graduated in 2019, M.S. in Food Science, Antimicrobial activity of ohelo berry
* Ana Keliikuli, Graduated in 2018, M.S. in Animal Science, Co-advisor with Dr. Chin Nyean Lee, Korean natural farming and indigenous microorganisms
* Zhijun Zhan, Graduated in 2017, M.S. in Food Science, Optimizing the production of bacteriocins by lactic acid bacteria isolated from foods using improved deferred antagonism assay
* Yen Nyugen, 2018-present, M.S. in Food Science, Comparison of antibiotic resistance and sanitizer susceptibility of E. coli isolated from agricultural water in Hawaii
* Beverly Yuen, 2017-present, M.S. in Food Science, The effects of inulin, fructooligosaccharides, and breadfruit fiber on the physicochemical properties, growth, and survival of probiotic yeast and bacteria

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| As graduate committee member | | | |  |
|  | Bo Li | Ph.D. Civil Engineering | | Graduated in 2020 |
|  | Taiyoung kang | Ph.D. MBBE |  | Graduated in 2019 |
|  | Amit Singh | Ph.D. Animal Science |  | Graduated in 2019 |
|  | Alyssa Haygood | Ph.D. MBBE |  | Graduated in 2019 |
|  | Inae Lee | Ph.D. MBBE |  | Graduated in 2017 |
|  | Bog Eum Lee | M.S. Food Science |  | Graduated in 2020 |
|  | Muci Li | M.S. Food Science |  | Graduated in 2019 |
|  | Cherisse Chun | M.S. Food Science |  | Graduated in 2019 |
|  | Junhuang Liu | M.S. Food Science |  | Graduated in 2018 |
|  | Linge Li | M.S. Food Science |  | Graduated in 2018 |
|  | Zi Wang | M.S. Civil Engineering |  | Graduated in 2016 |
|  | Jiheh Cebricos | M.S. Food Science |  | Graduated in 2016 |
|  | Yu Wang | M.S. Food Science |  | 2018-present |
|  | Garinn Pereira | M.S. Food Science |  | 2018-present |

# Current Research Interests

* Rapid detection of foodborne pathogens
* Food preservative and nutraceutical potential of tropical fruits
* Probiotics and functional foods
* Microbial survival and virulence during food processing

# Current Research Support

2018 - 2021 Prebiotic potential of tropical commodities. US Department of Agriculture/

Agricultural Research Service. PI

2018 - 2020 Pathotype and sanitizer susceptibility of Escherichia coli isolated from agricultural water in Hawaii. Hawaii Farm Bureau Federation. PI

2018 - 2020 Exploring the potential of coffee cherry and Ohelo berry as food preservatives and nutraceutical agents. US Department of Agriculture. PI

2018 - 2020 Using sanitizers to improve microbiological safety of papaya and avocado grown in Hawaii. Hawaii Farm Bureau Federation. PI

# Honors and Awards

2019 Superior Paper Award, American Society for Agriculture and Biological Engineers

2013 Nominee for Excellence in Teaching Award, University of Hawaii

2008 USDA/CSREES Grantsmanship Workshop Travel Grant, Western Association of Agricultural Experiment Station Program

2003, 2000, 1999 Harold P. Dugdale Scholarship, Department of Food Science, University of

Missouri

2003 Outstanding Poster Award, First Poster Day, University of Missouri

2002, 2001 Eugene V. Nay Scholarship, Department of Food Science, University of Missouri

2002 Outstanding Academic Achievement, International Center, University of Missouri

2001 Superior Graduate Student Achievement Award, Graduate Student

Association, University of Missouri

1996 Excellent Graduate Student Award, Graduate School, China Agricultural

University

# Students’ Achievements (\*Co-mentored)

* Solange Saxby, Soroptimist International Founder Fellowship, 2020
* Solange Saxby, one of five finalists for Young Minority Investigator Award, American Society for Nutrition Annual Meeting, 2020 (competition cancelled due to the pandemic)
* Alan Martin, 1st Place, King's Hawaiian Product Development Competition, University of Hawaii Kapiolani Community College, 2019
* Solange Saxby, University of Hawaii at Manoa Cancer Center Scholarship, 2017-2019
* Solange Saxby, College (CTAHR) 1st Place Ph.D. Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2018
* Rae Takahashi, College (CTAHR) 1st Place Undergraduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2018
* Garinn Pereira, College (CTAHR) 3rd Place Undergraduate Student Oral Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2018
* Surely Wallace, College (CTAHR) 1st Place Master Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2017
* Solange Saxby, College (CTAHR) 3rd Place Ph.D. Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2017
* Biyu Wu, Department (HNFAS) Best Master Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2017
* Surely Wallace, College (CTAHR) Master Student Three-Minute Elevator Pitch (3MEP) Presentation Award, University of Hawaii at Manoa, 2017
* Beverly Yuen, College (CTAHR) 3rd Place Undergraduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2016
* Christensen Mangahas, Department (HNFAS) Best Undergraduate Student Oral Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2016
* Ana Keliikuli\*, Department (HNFAS) Best Master Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2016
* Krista Ann Lee\*, College (CTAHR) 3rd Place Undergraduate Student Oral Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2015
* Elyse Bowman, Department (HNFAS) Best Undergraduate Student Oral Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2015
* Elyse Iseke, College (CTAHR) 1st Place Undergraduate Student Oral Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2014
* Qianting Li, Department (HNFAS) Best Graduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2014
* Ana Keliikuli\*, Department (HNFAS) Best Undergraduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2014
* Jennifer Ishimoto, Graduate Student Organization (GSO) Travel Award, University of Hawaii at Manoa, 2013
* Jaemi-Lise Yoshioka\*, Undergraduate Research Opportunities Program (UROP) Research Grant ($4992), University of Hawaii at Manoa, 2013
* Ningjian Liang, 3rd Place, Biotechnology Division Graduate Student Poster Competition, Institute of Food Technologists (IFT) Annual Meeting, New Orleans, 2011
* Ningjian Liang, Student Excellence in Research award, University of Hawaii Research Council, 2011
* Ningjian Liang, Department (HNFAS) Best Graduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2011
* Ningjian Liang, College (CTAHR) 2nd Place MS Student Poster Presentation, Gamma Sigma Delta Award, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2010
* Alfred Lee Castro, College (CTAHR) 2nd Place Undergraduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2010
* Alfred Lee Castro, Undergraduate Summer Research Award, University of Hawaii Research Council, 2008
* Hongfei He, 2nd Place, Food Microbiology Division Graduate Student Poster Competition, Institute of Food Technologists (IFT) Annual Meeting, New Orleans, 2008
* David Pirazzini, 1st Place, Master Student Oral Presentation Competition, American Society for Microbiology (ASM) Branch Meeting, Hawaii, 2008
* Hongfei He, College (CTAHR) 1st Place MS Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2008
* David Pirazzini, Department (HNFAS) Best Graduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2008
* Hongfei He, Department (HNFAS) Best Graduate Student Poster Presentation, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2007
* David Pirazzini, College (CTAHR) 2nd Place MS Student Poster Presentation, Gamma Sigma Delta Award, CTAHR Student Research Symposium, University of Hawaii at Manoa, 2007

BIRENDRA MISHRA, D.V.M., M.S., PH.D.

Department of Human Nutrition, Food and Animal Sciences College of Tropical Agriculture and Human Resources University of Hawaii at Manoa,

1955 East-West Road, Honolulu, HI 96822

Phone: (808)- 956-7021, Fax: (808)-956-4024, e-mail: [bmishra@hawaii.edu](mailto:bmishra@hawaii.edu)

# EDUCATION AND TRAINING S:

|  |  |
| --- | --- |
| **POSTDOC.** | Reproductive Toxicology, University of California, Irvine (2014-2016) Reproductive Endocrinology, University of Kentucky, KY (2011-2014) |
| **Ph.D.** | Veterinary Physiology, Gifu University, Japan (2007-2011) |
| **M.S.** | Theriogenology, Bangladesh Agricultural University, Bangladesh (2003-2004) |
| **D.V.M.** | Veterinary Medicine, Bangladesh Agricultural University, Bangladesh (1998-2003) |

**PROFESSIONAL APPOINTMENTS:**

|  |  |
| --- | --- |
| 2016-present | Assistant Professor of Animal Physiology, University of Hawaii at Manoa  Graduate Faculty (Concurrent Position): Nutritional Sciences Program, and Animal Science program, HNFAS/CTAHR, UH Manoa  Graduate Faculty (Concurrent Position): Molecular Biosciences and Bioengineering Program, MBBE/ CTAHR, UH Manoa |
| 2015-2016 | First Award Fellow, National Space Biomedical Research Institute, NASA Dept. of Medicine, University of California, Irvine |
| 2014-2015 | Postdoctoral Fellow, Dept. of Medicine; University of California, Irvine, CA |
| 2011-2013 | Postdoctoral Fellow, Dept. of OB/GYN, University of Kentucky, KY |
| 2011-2011 | Research Scientist, Occupational and Environmental Health, Jichi Medical University, Tochigi, Japan |
| 2007-2011 | Graduate Researcher, Gifu University, Japan |
| 2007-2010 | Teaching Assistant, Iwate University, Morioka, Japan |
| 2005-2006 | Assistant Professor and Veterinary Program Coordinator, Himalayan College of Agricultural Sciences and Technology, Nepal |

**RESEARCH INTERESTS:**

I am well-trained in the area of Physiology, Growth, and Reproduction, and skilled in most of the cellular and molecular tools and techniques. I have used rodents, cattle, and poultry as experimental models to study the various aspects of growth, reproduction, and offspring health. With a strong passion for Physiology and Reproduction, I have established a Reproduction Lab in the Dept. of Human Nutrition Food and Animal Science, the University of Hawaii at Manoa.

My long-term goal is to "Improve the Female Reproductive Health" for healthier reproductive outcomes (meat, milk, and eggs). My research program is focused on 1) Genetics and hormonal

regulation of egg formation in the poultry, 2) Nutritional programming to rescue the heat stress in poultry, 3) Improving reproductive efficiencies of beef cattle, 4) Nutritional reprogramming for the improvement of transgenerational obesity, and 5) Effects of radiation exposure on the reproductive tract of mice. I am working on a couple of research projects to increase the chances of extramural funding.

# COURSES TAUGHT:

|  |  |  |  |
| --- | --- | --- | --- |
| **Semester/Year** | **Course ID** | **Credit** | **Number of students** |
| Fall 2020 | ANSC 462 Reproduction and Artificial Insemination | 3 | 18 |
|  | ANSC 641 Seminar course | 1 | 10 |
|  | ANSC 699 Directed Reading and Research | 3 | 2 |
|  | ANSC 700 Directed Thesis Research | 3 | 1 |
| Spring 2020 | ANSC 451 Domestic Animal Physiology | 3 | 30 |
|  | ANSC 499 Directed Reading and Research | 3 | 1 |
|  | ANSC 643 Physiology of Reproduction | 3 | 3 |
|  | ANSC 699 Directed Reading and Research | 6 | 3 |
|  | ANSC 700 Directed Thesis Research | 1 | 1 |
| Fall 2019 | ANSC 462 Reproduction and Artificial Insemination | 3 | 19 |
|  | ANSC 699 Directed Reading and Research | 3 | 2 |
|  | ANSC 641 Seminar course | 1 | 25 |
| Spring 2019 | ANSC 451 Domestic Animal Physiology | 3 | 19 |
|  | ANSC 699 Directed Reading and Research | 3 | 2 |
|  | MBBE 699 Directed Reading and Research | 3 | 1 |
| Fall 2018 | ANSC 491 Topics in Animal Sciences “Poultry production system” | 3 | 6 |
|  | ANSC 641 Seminar course | 1 | 22 |
|  | ANSC 699 Directed Reading and Research | 3 | 2 |
|  | MBBE 699 Directed Reading and Research | 3 | 5 |
| Spring 2018 | ANSC 451 Domestic Animal Physiology | 3 | 26 |
|  | ANSC 699 Directed Reading and Research | 3 | 2 |
|  | MBBE 699 Directed Reading and Research | 3 | 1 |

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| Fall 2017 | MBBE 699 Directed Reading and Research | 3 | 1 |
|  | ANSC 699 Directed Reading and Research | 3 | 1 |
| Spring 2017 | ANSC 451 Domestic Animal Physiology | 3 | 19 |
|  | ANSC 699 Directed Reading and Research | 3 | 1 |
|  | MBBE 699 Directed Reading and Research | 3 | 1 |

**PUBLICATIONS (\* corresponding author):**

**Book Chapters**

1. **\*Mishra B.**, Sah N and Wasti S. (2019). Genetic and hormonal regulation of egg formation in the oviduct. Poultry, ISBN 978-1-78923-820-4.
2. **\*Mishra B**, and Jha R. (2019). Oxidative stress in the poultry gut: Potential challenges and intervention. Accepted to Frontiers in Veterinary Science, section Animal Nutrition and Metabolism. Front. Vet. Sci. - Animal Nutrition and Metabolism; 6: 60.
3. \*Jha R, Singh AK, Yadav S, Berrocoso, JFD and **Mishra B**. (2019). Early nutrition programming (in ovo and post-hatch feeding) as a strategy to modulate gut health of poultry. Front. Vet. Sci. - Animal Nutrition and Metabolism*.*

# Conference Proceedings/Abstracts

1. Wasti S, Lee CN, Jha R, and \***Mishra B.** (2020). Dietary supplementation of alpha-lipoic acid mitigates the negative effects of heat stress in poultry. PSA Virtual Annual Meeting (July 20-23, 2020). (*Poster presentation*)
2. Adhikari B, Lee CN, Khadka VS, Deng Y, Jha R, and \***Mishra B.** (2020). RNA-sequencing based analysis of bovine endometrium during the maternal recognition of pregnancy. SRS

\*Virtual Annual Meeting (July 8-12, 2020). (*Poster presentation*)

1. Mishra R, Jha R, **Mishra B**, and \*Kim YS (2020). Effects of maternal immunization against myostatin on the post-hatch growth performance of their chicks. PSA Virtual Annual Meeting (July 20-23, 2020). (*Poster presentation*)
2. Singh AK, **Mishra B**, Bedford MR, and \*Jha R (2020). Effects of xylanase and xylooligosaccharides supplementation on productive performance and gut health variables of broilers. PSA Virtual Annual Meeting (July 20-23, 2020). (*Poster presentation*)
3. Singh AK, **Mishra B**, and \*Jha R. Early post-hatch feeding of resistant starch can influence cell-mediated immunity and gut microbiota diversity in broilers. International Poultry Scientific Forum (Jan 27-28, 2020), Atlanta, GA, USA. (*Poster presentation*)
4. **Mishra B**, Sah N, Kuehu DN, Wasti S, Khadka VS, and \*Jha R. (2019). Transcriptional regulation of albumen biosynthesis and eggshell biomineralization in the oviduct of laying hens. 2019 Poultry Science Annual Meeting, Montreal, Canada.
5. Wasti S, Sah N, Kuehu DL, Lee CN, Jha R, \***Mishra, B.** (2019). Dietary supplementation of dried plum: A novel strategy to mitigate heat stress in poultry. 2019 Poultry Science Annual Meeting, Montreal, Canada.
6. Sah N, Kuehu DN, Khadka VS, Jha R, \***Mishra B**. (2019). New transcriptomic insights into processes associated with formation of egg-white in the magnum of laying hens. 2019 Poultry Science Annual Meeting, Montreal, Canada.
7. Singh AK, Tiwari UP, **Mishra B**, and \*Jha R. (2019). Comparative effects of in ovo injection of xylotriose, xylotetraose, mannotriose and mannotetraose on growth performance and gut health of broilers. 2019 Poultry Science Annual Meeting, Montreal, Canada.
8. Singh AK, **Mishra B**, and \*Jha R. Effects of early feeding of resistant starch during post- hatch yolk dependent period on growth performance and gut health parameters of broilers. 2019 Poultry Science Annual Meeting, Montreal, Canada.
9. Caliboso DK, Nanquil, JE, Yadav S, Kae, H, Neupane K, **Mishra B**, and \*Jha, R. (2019). Cecal microbiota profile of Hawaiian feral chickens and pasture-raised broiler chickens. 2019 Poultry Science Annual Meeting, Montreal, Canada.
10. Kuehu, DL, Sah, N, Lee CN, Jha, R, and \***Mishra, B.** (2019). Heat stress impacts the health of the laying hen through altering the regulation of heat shock and reactive oxidative stress genes in the liver. (Oral). 31st Annual CTAHR Student Research Symposium, Honolulu, HI, USA.
11. Wasti S, Sah N, Kuehu DL, Lee CN, Jha R, and \***Mishra, B.** (2019). Dietary supplementation of dried plum: A novel strategy to mitigate heat stress in poultry (Oral). 31st Annual CTAHR Student Research Symposium, Honolulu, HI, USA.
12. Haverly N, Wasti S, Kuehu DL, Sah N, Jha R, and \***Mishra B.** (2019). The effects of environmental heat stress on the spleens of broiler chickens (Oral). 31st Annual CTAHR Student Research Symposium, Honolulu, HI, USA.
13. Sah N, Kuehu DN, Khadka VS, Jha R, and \***Mishra B.** (2018). Transcriptomic analysis of the shell gland in layers identifies novel genes in eggshell biomineralization. 2018 Poultry Science Annual Meeting, San Antonio, Texas.
14. Kuehu, DL, Sah, N, Lee CN, Jha, R, and \***Mishra, B.** (2018). Heat stress impacts the oviduct health through altering the magnum and uterus regulation of heat shock and reactive oxidative stress genes of laying hens. American Indian Science and Engineering Society (AISES), Oklahoma City, OK.
15. **Mishra B,** Sah N, Kuehu DN, Wasti S, Khadka VS, and \*Jha R (2018). New mechanistic insights on egg formation in the oviduct of laying hens. 51th Annual meeting of Society for the study of reproduction, New Orleans. *Late Break abstract*
16. Kuehu, DL, Sah, N, Lee CN, Jha, R, and \***Mishra, B.** (2018). Effects of heat stress on the oviductal gene expression and egg qualities in the laying hen. The Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), San Antonio, Texas.
17. Kaewmanee S, Boonwittaya N, Thieng-Tham J, Nitthaisong P, \***Mishra B**, Yindee M and Pinyophummin, A. (2018). The fluorescence-based morphometry Computer-assisted sperm analysis has a potential to determine progeny sexed spermatozoa in both African (Loxodonta africana) and Asian (Elephas maximus) elephants. 51st Annual meeting of Society for the study of reproduction, New Orleans.
18. Li L, Singh AK, **Mishra B**, and \*Jha R. Effect of in ovo injection of probiotic, prebiotic and synbiotic on growth performance and gut health parameters of broiler chickens. 2018 Poultry Science Annual Meeting, San Antonio, Texas.
19. Sah N, Kuehu DN, Khadka VS, Jha R, and \***Mishra B.** (2018). RNA sequencing of the shell gland reveals novel genes related to calcium remodeling during eggshell formation in laying hens. CTAHR/COE Student Research Symposium.
20. Kuehu, DL., Sah, N, Lee CN, Jha, R, and \***Mishra, B.** (2018). Effects of heat stress on the oviductal gene expression and egg qualities in the laying hen. CTAHR/COE Student Research Symposium.
21. Wasti S, Sah N, Kuehu DL, Kim YS, Jha R, and \***Mishra, B.** (2018). Expression of follistatin and myostatin in the oviduct of laying hen. CTAHR/COE Student Research Symposium.
22. Li, L, Singh, AK., **Mishra, B**, and \*Jha, R. (2018). Effect of in ovo injection of probiotic, prebiotic and synbiotic on growth performance and gut health of broiler chickens. CTAHR/COE Student Research Symposium.
23. Yadav S, Singh A, Tiwari UP, **Mishra B**, and \*Jha R. (2018). Cassava root chips an alternative to corn in broiler diet: effect on growth performance and gut health parameters. CTAHR/COE Student Research Symposium.
24. Sah N, Kuehu DN, Khadka VS, Jha R, \***Mishra B.** (2018). RNA sequencing-based analysis of uterus specific genes regulating eggshell formation in laying hens. 18th EWC International Graduate Student Conference, Honolulu, Hawaii.
25. **Mishra B,** and \*Luderer U. (2018) Space Radiation Damages Uterine Cell Architecture in mice. 2018 NASA Human Research Program Investigators' Workshop HRP Research: The gateway to MARS, Galveston, Texas (Poster).
26. **Mishra B,** and \*Luderer U. (2017) Components of Space Radiation Damage Uterine Cell Architecture in Mice. 50th Annual meeting of Society for study of reproduction. Washington, DC, July 2017.
27. **Mishra B,** and \*Luderer U. (2016) Effects of space radiation on the reproductive health of women astronauts. UCI-UCLA occupational medicine grand rounds presentation. (Invited speaker)
28. **Mishra B**, Ripperdan R Ortiz L, and \*Luderer U. (2016) Iron charged particle, a component of space radiation induces ovarian tumors in mice. 49th Annual meeting of Society for study of reproduction San Diego, USA, July 2016.
29. Michelle L, Park J, **Mishra B,** Curry TE, and \*Jo M. (2016) Core binding factor beta (CBFb) is essential for female fertility in mice. 49th Annual meeting of Society for study of reproduction San Diego, USA, July 2016.
30. **Mishra B**, Ortiz L, and \*Luderer U. (2016) Space radiation causes premature ovarian failure and induces ovarian tumors in mice. *NASA human research Program Investigators’ Workshop Integrated Pathways to Mars*, Galveston, Texas.
31. **Mishra B**, Ortiz L, and \*Luderer U. (2015) Space irradiation causes premature ovarian failure in mice. *48th Annual meeting of Society for Study of Reproduction* Puerto Rico, USA.
32. **Mishra B**, Ortiz L, and \*Luderer U. (2015) Charged iron particle exposure increases apoptosis and depletes ovarian follicles in mice. *NASA human research Program Investigators’ Workshop Integrated Pathways to Mars*, Galveston, Texas.
33. Jo M, **Mishra B**, and \*Park J. (2015) X-Linked Lymphocyte Regulated Gene 5c-like (Xlr5c- like) is a novel target of progesterone action in granulosa cells from periovulatory rats. *97th Annual Meeting and Expo of Endocrine Society's*, San Diego, CA
34. Jo M, **Mishra B**, and \*Park J. (2014) Core Binding Factor Beta Is Essential for Female Fertility in Mice. *ICE/ENDO*, Chicago, Illinois.
35. Park J, **Mishra B**, Michelle L, and \*Jo M. (2014) Core binding factor beta (CBFb) is essential for female fertility in mice. *33rd Symposium in Reproductive Science and Women's Health*, University of Kentucky, Lexington, Kentucky, USA.
36. **Mishra B**, and \*Jo M. (2013) Xlr5c: A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *46th Annual meeting of Society for study of reproduction*, Montreal, Canada.
37. **Mishra B,** and \*Jo M. (2013) Xlr5c: A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *32nd Symposium in Reproductive Science and Women's Health*, University of Kentucky, Lexington, Kentucky, USA.
38. **Mishra B,** and \*Jo M. (2013) Xlr5c: A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *Postdoctoral research symposium*, University of Kentucky, Lexington, Kentucky.
39. **Mishra B,** and \*Jo M. (2012) Expression, regulation and function of X-linked lymphocyte regulated gene-5c (Xlr5c) in the periovulatory rat ovary” in *45th Annual meeting of Society for study of reproduction*, State College, Pennsylvania, USA.
40. **Mishra B,** and \*Jo M. (2012) Expression of LH induced X-linked lymphocyte regulated gene- 5c (Xlr5c) in the periovulatory rat ovary” in *31st Symposium in Reproductive Science and Women's Health*, University of Kentucky, Lexington, Kentucky.
41. **Mishra B**, Kizaki K, Sato T, Ito A, and \*Hashizume K. (2011) The role of extracellular matrix metalloproteinase inducer (EMMPRIN) in the regulation of bovine endometrial cell functions. *104th Japanese Society of Reproduction and Development*, Morioka, Japan.
42. **Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and \*Hashizume K. (2010) Expression of ADAMTS1 in the cyclic and pregnant bovine endometrium. *103rd*

*Japanese Society of Reproduction and Development*, Towada, Japan.

1. **Mishra B**, Kizaki K, Koshi K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and

\*Hashizume K. (2010) Differential expression of EMMPRIN regulates endometrial remodeling during early pregnancy in cow. *43rd Annual Meeting of Society for the Study of Reproduction*, Milwaukee, Wisconsin, USA, 2010.

1. **Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and \*Hashizume K. (2009) Expression of extracellular matrix metalloproteinase inducer during bovine pregnancy. *102nd Japanese Society of Reproduction and Development*, Nara, Japan.
2. **Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and \*Hashizume K. (2008) Expression of extracellular matrix metalloproteinase inducer (EMMPRIN) and its related extracellular matrix degrading enzymes in the bovine endometrium during estrous cycle. *146th Japanese Society of Veterinary Medicine, Miyazaki, Japan*.
3. **Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and \*Hashizume K. (2008) Role of matrix metalloproteinases in the endometrial remodeling during implantation in cow. 15th International Congress on Biotechnology in Animal Reproduction, Mymensingh, Bangladesh.
4. \*Alam MGS, and **Mishra B.** (2007). Effects of glutathione on keeping quality of chilled goat semen. *14th International Congress on Biotechnology in Animal Reproduction,* Kairo, Egypt.

# Refereed Journal Publications (\* Corresponding author)

* 1. Wasti S, Sah N, **\*Mishra B**. (2020). Impact of Heat Stress on Poultry Health and Performances, and Potential Mitigation Strategies. *Animals*, 10, 1266; doi:10.3390/ani10081266.
  2. Wasti S, Sah N, Kuehu DN, Kim YS, Jha R, \***Mishra B.** (2020). Expression of follistatin is associated with egg formation in the oviduct of laying hens. *Animal Science Journal* https://doi.org/10.1111/asj.13396
  3. **Mishra B**, \*Luderer U. (2019) Reproductive Hazards of Space Travel in Women and Men. *Nature Reviews Endocrinology 15, 713–730* . (**Impact Factor: 28.8**)
  4. Zhu H, Qin N, Xu X, Sun X, Chen V, Zhao J, \*Xu R, and **\* Mishra, B** (2019). Synergistic inhibition of csal1 and csal3 in granulosa cell proliferation and steroidogenesis of hen ovarian prehierarchical development. *Biology of Reproduction*, 2019, 1–15.
  5. Yadav S, **Mishra B**, and \*Jha R. (2019). Cassava (*Manihot esculenta*) root chip inclusion in the diets of broiler chickens: effects on growth performance and gut health parameters. *Poultry Science*, 98:4008-4015
  6. Sah N, Kuehu DN, Khadka VS, Deng Y, Peplowska K, Jha R, \***Mishra B.** (2018). RNA sequencing-based analysis of the laying hen uterus revealed the novel genes and biological pathways involved in the eggshell biomineralization. ***Nature Scientific Reports*** 8:16853.
  7. Sah N, and \***Mishra B**. (2018). Regulation of egg formation in the oviduct of laying hen.

*World's Poultry Science Journal*, 74(3), 509-522.

* 1. **Mishra B,** Ortiz L., \*Luderer U. (2018) Charged iron particles, typical of space radiation, induce ovarian tumors in mice. *Radiation Research* 190(2):142-150.
  2. Xu XX, **Mishra B**, Qin N, Sun X, Zhang SM, Yang JZ, and \*Xu RF (2018). Differential transcriptome analysis of early postnatal developing longissimus dorsi muscle from two pig breeds characterized in divergent myofiber traits and fatness. *Animal Biotechnology* 22:1-12.
  3. \*Ali MS, Mishra B., (2018). Ecdysone Receptor Binds the Promoter of the CPR28 Gene and Regulates its Expression. *J Mol Cell Biol Forecast.* 1(1): 1004.
  4. \*Ali M.S., Hossain T.M., Mishra B., (2018). Transcriptional Profiling Shows that BHR4 and E74A Are the Regulators of CPH33 and CPH34 Gene Expression. *Journal of Advances in Molecular Biology,* 2 (1): 1-8.
  5. **Mishra B**, Ripperdan R., Ortiz L., \*Luderer U. (2017) Charged oxygen particles, typical of space radiation, induce premature ovarian failure in mice. Reproduction 154:123–133.
  6. **Mishra B,** Ortiz L, \*Luderer U (2016) Charged iron particles, typical of space radiation induce ovarian failure in mice. *Human Reproduction* 31(8):1816-26.
  7. Michelle L, Park J, **Mishra B,** Curry TE, \*Jo M. (2016) Core binding factor beta (CBFb) is essential for female fertility in mice. *Molecular Endocrinology* 30: 733–747.
  8. \*Ali MS, **Mishra B**, Polan MS, Ninagi O, Swapon AH. (2016) Regulation Studies of a Cuticle Protein Underlying Genomic Analysis. *International Journal of Molecular Genetics and Gene Therapy*. 1(2): doi [http://dx.doi](http://dx.doi/). org/10.16966/2471-4968.104.
  9. **Mishra B,** Park JY, Wilson K**, \***Jo M. (2015) X-linked lymphocyte-regulated gene-5c (Xlr5c): A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *Molecular and Cellular Endocrinology* 412:226-38.
  10. \*Ali MS, **Mishra B**, Rahman RF, Swapon AH. (2015) The silkworm Bombyx mori cuticular protein 4CPR55 gene is regulated by the transcription factor 5bFTZ-F1. The *Journal of Basic and Applied Zoology* 73:20-27.
  11. \*Paul AK, **Mishra B**. (2014) Reproductive Physiology of Buffalo (Bubalus bubalis) and exogenous control. *Burapha University International Conference Proceeding*, Burapha University, Thailand, 24-31.
  12. **Mishra B**, Koshi K, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A,

\*Hashizume K. (2013) Expression and hormonal regulation of *ADAMTS1* in the bovine endometrium during gestation. *Domestic Animal Endocrinology* 45: 43-48.

* 1. **Mishra B**, Kizaki K., Sato T, Ito A, and \*Hashizume K. (2012) The role of extracellular matrix metalloproteinase inducer (EMMPRIN) in the regulation of bovine endometrial cell functions. *Biology of Reproduction* 87: 1-8.
  2. **Mishra B**, Kizaki K, Koshi K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and

\*Hashizume K. (2012) Expression of extracellular matrix metalloproteinase inducer (EMMPRIN) and its expected roles in the bovine endometrium during gestation.

*Domestic Animal Endocrinology* 42: 63-73.

* 1. **Mishra B**, Kizaki K, Koshi K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A,

\*Hashizume K. (2010) Expression of extracellular matrix metalloproteinase inducer (EMMPRIN) and its related extracellular matrix-degrading enzymes in the endometrium during the estrous cycle and early gestation in cattle. *Reproductive Biology and Endocrinology* 8:60*.*

* 1. **Mishra B, \***Alam MGS., Khandokar M, Mazumder S, Munsi MN. (2010) Qualities of goat semen in Tris-Citrate-Glucose extender containing glutathione. *Bangladesh Veterinarian* 27: 46-55.
  2. **Mishra B**, Kizaki K., Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, and \*Hashizume

K. (2008) Role of matrix metalloproteinases in the endometrial remodeling during implantation in the cow. 15th International Congress on Biotechnology in Animal Reproduction 35-43.

* 1. Alam MGS, Yeasmin S, Yeasmin FB, **Mishra B.** (2005) The effect of duration of preservation on the quality of chilled bull semen. *The Bangladesh Veterinarian 22:16-22.*

# MENTORING AND COMMITTEE MEMBERS:

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| **Category** | **Number of Students** | **Number that Graduated** |
| Chair of Master committees | 4 | 3 |
| Member of Master committees | 5 | 3 |
| Member of PhD committees | 6  (including University Representative-2) | 4 |
| Visiting scholar’s and graduate students research advisor | 3 | 3 |
| Undergraduate advisor | 14 | 13 |

**RESEARCH AWARDS TO MENTEES:**

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| 2020 | * Poultry Science Association (PSA) Student of the year Award to Mentee (Sanjeev Wasti), Louisville, Kentucky, 2020 |
| 2019 | * Poultry Science Association (PSA) Best Poster Presentation Award to Mentee (Sanjeev Wasti) * UH Manoa UROP award to mentee (Angeline Lee) * CTAHR's Best Undergraduate Student Presentation to Mentee (Sabrina Nicole) * CTAHR's Food System, Security and System category winner among Undergraduate Student Presentation to Mentee (Sabrina Nicole) |
| 2018 | * Poultry Science Association (PSA) Best Poster Presentation Award to Mentee (Nirvay Sah) * PSA Graduate Student Travel award to Mentee (Nirvay Sah) * First place in Graduate students Poster competition, The American Indian Science and Engineering Society (AISES 2018) to Mentee (Donna Lee Kuehu) * AISES 2018 Graduate student Travel Award to Mentee (Donna Lee Kuehu) * CTAHR Research symposium, HNFAS best oral presentation award to Mentee (Nirvay Sah) |

# Mentees:

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| **Students** | **Enrollment** | **Research** |
| Mahfuz Rahman Adnan | MS student (1/2020- present) | Defects in uterine gene expression leading to infertility in cattle |
| Bindu Adhikari | MS student (1/2019- 12/2020) | RNA-Sequencing based analysis of bovine endometrium during the maternal recognition of pregnancy |
| Sanjeev Wasti | MS student (1/2018- 7/2020) | Nutritional reprograming to mitigate heat-stress in poultry |
| Nirvay Sah | MS student (1/2017- 12/31/2018) | Transcriptional regulation of egg formation in the oviducts of laying hen |
| Donna Lee Kuehu | Ph.D. student in MBBE (1/2017- 9/2019) (transferred to MMBE program advisor) | Effects of heat stress on the egg production in laying hen |

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| --- | --- | --- |
| Victoria Mevel | Visiting Intern from France (09/2018- 12/2018) | Nutritional reprograming to rescue oxidative stress |
| Kendrick Acda | Visiting scholar for summer research program, Wells International School, Thailand | Molecular techniques |
| Parina Pantari | Visiting scholar for summer research program, Wells International School, Thailand | Molecular techniques |
| Angeline Lee | Biology major/Premed, 2019 | Effects of heat stress on hypothalamus |
| Kayla Scott | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on pituitary gland |
| Emily Rhoads | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on pituitary gland |
| Kody Remington | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on pituitary gland |
| Blaise DeSa | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on pituitary gland |
| David Sakihara | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on pituitary gland |
| Arn Nagun | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on pituitary gland |
| Dionne Sesepasara | Animal Science Major, Undergraduate program | Poultry reproduction and lab techniques |
| Sabrina Nicole Haverly | Animal Science Major, Undergraduate program | Poultry reproduction and lab techniques |
| Destiny Apilado | Summer student 2018, INBRE program, Leeward Community College | Expression of GnRHR in the oviduct of Laying Hens |
| Valeria Alicea- Colon | Summer student 2018, INBRE program, Leeward Community College | Expression of GnRHR in the oviduct of Laying Hens |

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| --- | --- | --- |
| Anna Micah Ang | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on the liver of laying hen |
| Marian Houle | Summer student 2018, INBRE program, Leeward Community College | Effects of heat stress on the liver of laying hen |

**PROFESSIONAL INVOLVEMENTS:**

|  |  |
| --- | --- |
| 2019 | * Co-host: NE-1442 Annual Meeting (USDA Multistate annual meeting)   Poultry Production Systems and Well-being: Sustainability for Tomorrow. University of Hawaii at Manoa, HI   * Visiting Professor: College of Animal Science & Technology, North West Agriculture & Forestry University, China |
| 2011-present | * Reviewer:   Journal of Proteome Research, Toxicological Sciences, Reproduction, Biology of Reproduction, Poultry Science, Theriogenology, Reproduction, Fertility, and Development, Histology and Histopathology, Animal Reproduction Journal, Asian-Australasian Journal of Animal Sciences, Animal Science Journal, Journal of Advance in Veterinary Research |
| 2015-Present 2015-present 2016-present | * Future meeting committee, Society for Study of Reproduction * NASA Human Research Symposium * Poultry Science Association * American Society of Animal Science |
| 2015-2016 | * Chair, UC Irvine Postdoctoral Scholar Association (UCI-PDA) |
| 2005-present  2008-2011 | * Nepal Veterinary Council (NVC), Nepal * Nepal Veterinary Association (NVA), Nepal * Japanese Society of Animal Reproduction (JSAR), Japan * Japanese Society of Veterinary Medicine (JSVM), Japan * Society for Study of Reproduction |

# INSTITUTIONAL SERVICES/LEADERSHIP

2020-present  Research Liaison, CTAHR Senate Executive Committee

* + - CTAHR Senate Executive Committee member

|  |  |
| --- | --- |
| 2019-2020 | * Chair, CTAHR Senate Research Committee |
| 2018-present | * HNFAS Curriculum Committee, * HNFAS Research Committee |
| 2017-present | * CTAHR Students' Research Symposium Committee * Judge, CTAHR Students' Research Symposium * CTAHR new students' orientation * Environmental and Agriculture Awareness day (Animal Science booth) * Manoa Experience (Animal Science booth) * East-West Center Scholarship review panel * Marshall Scholarship selection committee * Honolulu District Science fair * District Science Fair for the Hawaii Association of Independent Schools |

# GRANT SUPPORTS:

***Title of Grant*:** Improvement of Reproductive efficiency in Hawaiian cattle Source of Grant: Hawaii Department of Agriculture

Amount: $114,178

Date of Grant: 2019-2021 Role: Principal Investigator (PI)

***Title of Grant*:** Nutrition programming of monogastric animals using alternative feedstuffs. Source of Grant: USDA-Supplemental Research/Extension Grant.

Amount: $80,000

Date of Grant: 2018-2020

Role: **Co-PI,** PI: Dr. Rajesh Jha

***Title of Grant*:** Collection, evaluation, extension, and freezing of local beef semen from Mealani Research Station for Artificial insemination for Hawaii Beef Industry. Source of Grant: USDA-Supplemental Research/Extension Grant.

Amount: $35,000

Date of Grant: 2018-2020

Role: **Co-PI,** PI: Michael DuPonte

***Title of Grant*:** Poultry Production Systems and Well-being: Sustainability for Tomorrow Source of Grant: USDA/NIFA Multistate Hatch Research Grant

Amount: $70,000

Date of Grant: 2017-2019 Role: Principal Investigator

***Title of Grant*:** Transforming all Veterinarians into Food-Animal Vets through Focused Continuing Education.

Source of Grant: USDA/NIFA Educational grant, 2017-70024-2733 Amount: $169,304.00

Date of Grant: 2019-2021

Role: Co-Principal Investigator, PI: Jenee Odani

***Title of Grant*:** Effects of Charged Particle on the Uterus

Source of Grant: National Space Biomedical Research Institute (NSBRI), NASA Early Career Research Award, PF04302

Amount: $50,840

Date of Grant: 2015-2016

Role: Principal Investigator, Co-PI: Dr. Ulrike Luderer

***Title of Grant*:** Role of EMMPRIN in the bovine endometrial functions

Source of Grant: Graduate Student Research Award, United Graduate School of Veterinary Sciences, Gifu University, Japan

Amount: $3,000

Role: Principal Investigator, Co-PI: Kazuyoshi Hashizume

# Research travel grant:

UH Research Faculty Travel Award (OVCR). To present a research paper in the “Poultry Science meeting” (July 15-18, 2019), Montréal, Québec, Canada. University of Hawaii Research Council.

$2,000.

# Undergraduate research opportunity fund

*Title:* Effects of heat stress on the hypothalamus of broiler chicken

*Agency:* Undergraduate research opportunity fund, UH Mano (Student- Angeline Zhou). $5,000 (2019)

# PRESENTATION AT THE CONFERENCES (\* presenting author):

1. \*Wasti S, Lee CN, Jha R, and **Mishra B.** (2020). Dietary supplementation of alpha- lipoic acid mitigates the negative effects of heat stress in poultry. PSA Virtual Annual Meeting (July 20-23, 2020). (*Poster presentation*)
2. \*Adhikari B, Lee CN, Khadka VS, Deng Y, Jha R, and **Mishra B.** (2020). RNA- sequencing based analysis of bovine endometrium during the maternal recognition of pregnancy. SRS Virtual Annual Meeting (July 8-12, 2020). (*Poster presentation*)
3. \*Mishra R, Jha R, **Mishra B**, and Kim YS (2020). Effects of maternal immunization against myostatin on the post-hatch growth performance of their chicks. PSA Virtual Annual Meeting (July 20-23, 2020). (*Poster presentation*)
4. \*Singh AK, **Mishra B**, Bedford MR, and Jha R (2020). Effects of xylanase and xylooligosaccharides supplementation on productive performance and gut health variables of broilers. PSA Virtual Annual Meeting (July 20-23, 2020). (*Poster presentation*)
5. \*Singh AK, **Mishra B**, and Jha R. Early post-hatch feeding of resistant starch can influence cell-mediated immunity and gut microbiota diversity in broilers. International Poultry Scientific Forum (Jan 27-28, 2020), Atlanta, GA, USA. (*Poster presentation*)
6. **\*Mishra B**, Sah N, Kuehu DN, Wasti S, Khadka VS, and Jha R. (2019). Transcriptional regulation of albumen biosynthesis and eggshell biomineralization in the oviduct of laying hens. 2019 Poultry Science Annual Meeting, Montreal, Canada. (*oral presentation*)
7. \*Wasti S, Sah N, Kuehu DL, Lee CN, Jha R, **Mishra, B.** (2019). Dietary supplementation of dried plum: A novel strategy to mitigate heat stress in poultry. 2019 Poultry Science Annual Meeting, Montreal, Canada. (*Poster presentation*)
8. Sah N, Kuehu DN, Khadka VS, Jha R, \***Mishra B**. (2019). New transcriptomic insights into processes associated with the formation of egg-white in the magnum of laying hens. 2019 Poultry Science Annual Meeting, Montreal, Canada. (*Poster presentation*)
9. Singh AK, Tiwari UP, \***Mishra B**, and Jha R. (2019). Comparative effects of in ovo injection of xylotriose, xylotetraose, mannotriose, and mannotetraose on growth performance and gut health of broilers. 2019 Poultry Science Annual Meeting, Montreal, Canada. (*Poster presentation*)
10. Singh AK, \***Mishra B**, and Jha R. Effects of early feeding of resistant starch during post-hatch yolk dependent period on growth performance and gut health parameters of broilers. 2019 Poultry Science Annual Meeting, Montreal, Canada. (*Poster presentation*)
11. Caliboso DK, Nanquil, JE, Yadav S, Kae, H, Neupane K, \***Mishra B**, and Jha, R. (2019). Cecal microbiota profile of Hawaiian feral chickens and pasture-raised broiler chickens. 2019 Poultry Science Annual Meeting, Montreal, Canada. (*Poster presentation*)
12. \*Kuehu, DL, Sah, N., Lee CN, Jha, R., **Mishra, B.** (2019). Heat stress impacts the health of the laying hen through altering the regulation of heat shock and reactive oxidative stress genes in the liver. (Oral). 31st Annual CTAHR Student Research Symposium, Honolulu, HI, USA.
13. \*Wasti S, Sah N, Kuehu DL, Lee CN, Jha R, **Mishra, B.** (2019). Dietary supplementation of dried plum: A novel strategy to mitigate heat stress in poultry (Oral). 31st Annual CTAHR Student Research Symposium, Honolulu, HI, USA.
14. \*Haverly N, Wasti S, Kuehu DL, Sah N, Jha R, and **Mishra B.** (2019). The effects of environmental heat stress on the spleens of broiler chickens (Oral). 31st Annual CTAHR Student Research Symposium, Honolulu, HI, USA (***Received CTAHR Best BS Student Oral Presentation Award***).
15. \*Sah N, Kuehu DN, Khadka VS, Jha R, **Mishra B.** (2018). Transcriptomic analysis of the shell gland in layers identifies novel genes in eggshell biomineralization. 2018 Poultry Science Annual Meeting, San Antonio, Texas. ***Best Poster Award***
16. \*Kuehu, DL, Sah, N., Lee CN, Jha, R., **Mishra, B.** (2018). Heat stress impacts the oviduct health through altering the magnum and uterus regulation of heat shock and reactive oxidative stress genes of laying hens. American Indian Science and Engineering Society (AISES), Oklahoma City, OK. ***Best Poster Award***
17. **\*Mishra B,** Sah N, Kuehu DN, Wasti S, Khadka VS, and Jha R (2018). New mechanistic insights on egg formation in the oviduct of laying hens. 51th Annual meeting of Society for the study of reproduction, New Orleans. *Late Break abstract for Poster presentation*
18. \*Kuehu, DL, Sah, N, Lee CN, Jha, R, **Mishra, B.** (2018). Effects of heat stress on the oviductal gene expression and egg qualities in the laying hen. The Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS), San Antonio, Texas.
19. \*Kaewmanee S, Boonwittaya N, Thieng-Tham J, Nitthaisong P, **Mishra B**, Yindee M and Pinyophummin, A. (2018). The fluorescence-based morphometry Computer- assisted sperm analysis has a potential to determine progeny sexed spermatozoa in both African (Loxodonta africana) and Asian (Elephas maximus) elephants. 51st Annual meeting of Society for the study of reproduction, New Orleans.
20. \*Li L, Singh AK, **Mishra B**, Jha R. Effect of in ovo injection of probiotic, prebiotic and synbiotic on growth performance and gut health parameters of broiler chickens. 2018 Poultry Science Annual Meeting, San Antonio, Texas.
21. \*Sah N, Kuehu DN, Khadka VS, Jha R, **Mishra B.** (2018). RNA sequencing of the shell gland reveals novel genes related to calcium remodeling during eggshell formation in laying hens. CTAHR/COE Student Research Symposium.
22. \*Kuehu, DL., Sah, N, Lee CN, Jha, R, **Mishra, B.** (2018). Effects of heat stress on the oviductal gene expression and egg qualities in the laying hen. CTAHR/COE Student Research Symposium.
23. \*Wasti S, Sah N, Kuehu DL, Kim YS, Jha R, **Mishra, B.** (2018). Expression of follistatin and myostatin in the oviduct of laying hen. CTAHR/COE Student Research Symposium.
24. \*Li, L, Singh, AK., **Mishra, B**, Jha, R. (2018). Effect of in ovo injection of probiotic, prebiotic and synbiotic on growth performance and gut health of broiler chickens. CTAHR/COE Student Research Symposium.
25. \*Yadav S, Singh A, Tiwari UP, **Mishra B.**, Jha R. (2018). Cassava root chips an alternative to corn in broiler diet: effect on growth performance and gut health parameters. CTAHR/COE Student Research Symposium.
26. \*Sah N, Kuehu DN, Khadka VS, Jha R, **Mishra B.** (2018). RNA sequencing-based analysis of uterus specific genes regulating eggshell formation in laying hens. 18th EWC International Graduate Student Conference, Honolulu, Hawaii.
27. **\*Mishra B,** Luderer U. (2018) Space Radiation Damages Uterine Cell Architecture in mice. 2018 NASA Human Research Program Investigators' Workshop HRP Research: The gateway to MARS, Galveston, Texas (Poster).
28. **\*Mishra B,** Luderer U. (2017) Components of Space Radiation Damage Uterine Cell Architecture in Mice. 50th Annual meeting of Society for study of reproduction. Washington, DC, July 2017.
29. **\*Mishra B,** and Luderer U. (2016) Effects of space radiation on the reproductive health of women astronauts. UCI-UCLA occupational medicine grand rounds presentation. (Invited speaker)
30. **\*Mishra B,** and Luderer U. (2016) Space radiation induces ovarian failure and ovarian cancer in mice. UCI Postdoc Research Symposium, “Postdocs at the Forefront” (Poster presentation)
31. **\*Mishra B**, Ripperdan R Ortiz L, Luderer U. (2016) Iron charged particle, a component of space radiation induces ovarian tumors in mice. 49th Annual meeting of Society for study of reproduction San Diego, USA, July 2016. (Oral presentation)
32. \*Michelle L, Park J, **Mishra B,** Curry TE, Jo M. (2016) Core binding factor beta (CBFb) is essential for female fertility in mice. 49th Annual meeting of Society for study of reproduction San Diego, USA, July 2016. (Poster presentation)
33. **\*Mishra B**, Ortiz L, Luderer U. (2016) Space radiation causes premature ovarian failure and induces ovarian tumors in mice. *NASA human research Program Investigators’ Workshop Integrated Pathways to Mars*, Galveston, Texas. (Poster presentation)
34. **\*Mishra B**, Ortiz L, Luderer U. (2015) Space irradiation causes premature ovarian failure in mice. *48th Annual meeting of Society for Study of Reproduction* Puerto Rico, USA. (Oral presentation)
35. **\*Mishra B**, Ortiz L, Luderer U. (2015) Charged iron particle exposure increases apoptosis and depletes ovarian follicles in mice. *NASA human research Program Investigators’ Workshop Integrated Pathways to Mars*, Galveston, Texas. (Poster presentation)
36. \*Jo M, **Mishra B**, Park J. (2015) X-Linked Lymphocyte Regulated Gene 5c-like (Xlr5c- like) is a novel target of progesterone action in granulosa cells from periovulatory rats. *97th Annual Meeting and Expo of Endocrine Society's*, San Diego, CA (Poster presentation)
37. \*Jo M, **Mishra B**, Park J. (2014) Core Binding Factor Beta Is Essential for Female Fertility in Mice. *ICE/ENDO*, Chicago, Illinois. (Poster presentation)
38. \*Park J, **Mishra B**, Michelle L, and Jo M. (2014) Core binding factor beta (CBFb) is essential for female fertility in mice. *33rd Symposium in Reproductive Science and Women's Health*, University of Kentucky, Lexington, Kentucky, USA. (Poster presentation)
39. **\*Mishra B**, Jo M. (2013) Xlr5c: A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *46th Annual meeting of Society for study of reproduction*, Montreal, Canada. (Oral presentation)
40. **\*Mishra B,** Jo M. (2013) Xlr5c: A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *32nd Symposium in Reproductive Science and Women's Health*, University of Kentucky, Lexington, Kentucky, USA. (Poster presentation)
41. **\*Mishra B,** Jo M. (2013) Xlr5c: A novel target and mediator of the action of progesterone receptor in rat periovulatory ovaries. *Postdoctoral research symposium*, University of Kentucky, Lexington, Kentucky. (Poster presentation)
42. **\*Mishra B,** Jo M. (2012) Expression, regulation and function of X-linked lymphocyte regulated gene-5c (Xlr5c) in the periovulatory rat ovary” in *45th Annual meeting of*

*Society for study of reproduction*, State College, Pennsylvania, USA. (Poster presentation)

1. **\*Mishra B,** Jo M. (2012) Expression of LH induced X-linked lymphocyte regulated gene- 5c (Xlr5c) in the periovulatory rat ovary” in *31st Symposium in Reproductive Science and Women's Health*, University of Kentucky, Lexington, Kentucky. (Poster presentation)
2. **\*Mishra B**, Kizaki K, Sato T, Ito A, Hashizume K. (2011) The role of extracellular matrix metalloproteinase inducer (EMMPRIN) in the regulation of bovine endometrial cell functions. *104th Japanese Society of Reproduction and Development*, Morioka, Japan. (Oral presentation)
3. **\*Mishra B.** (2011) What EMMPRIN does in the endometrium?” In *Society for Farm to table*, Iwate University, Morioka Iwate, Japan. (***Invited speaker***)
4. **\*Mishra B**, Kizaki K., Ushizawa K., Takahashi T., Hosoe M., Sato T., Ito A., Hashizume

K. (2010) Expression of ADAMTS1 in the cyclic and pregnant bovine endometrium. *103rd Japanese Society of Reproduction and Development*, Towada, Japan. (Oral presentation)

1. **\*Mishra B**, Kizaki K, Koshi K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, Hashizume K. (2010) Differential expression of EMMPRIN regulates endometrial remodeling during early pregnancy in cow. *43rd Annual Meeting of Society for the Study of Reproduction*, Milwaukee, Wisconsin, USA, 2010. (Poster presentation)
2. **\*Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, Hashizume K. (2009) Expression of extracellular matrix metalloproteinase inducer during bovine pregnancy. *102nd Japanese Society of Reproduction and Development*, Nara, Japan. (Oral presentation)
3. **\*Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, Hashizume K. (2008) Expression of extracellular matrix metalloproteinase inducer (EMMPRIN) and its related extracellular matrix degrading enzymes in the bovine endometrium during estrous cycle. *146th Japanese Society of Veterinary Medicine, Miyazaki, Japan*. (Oral presentation)
4. **\*Mishra B**, Kizaki K, Ushizawa K, Takahashi T, Hosoe M, Sato T, Ito A, Hashizume K. (2008) Role of matrix metalloproteinases in the endometrial remodeling during implantation in cow. 15th International Congress on Biotechnology in Animal Reproduction, Mymensingh, Bangladesh. (Oral presentation)
5. \*Alam MGS, **Mishra B.** (2007). Effects of glutathione on keeping quality of chilled goat semen. *14th International Congress on Biotechnology in Animal Reproduction,* Kairo, Egypt. (Oral presentation)

**University of Hawaii at Manoa**

STUART T. NAKAMOTO

**BUSINESS ADDRESS:** **HOME ADDRESS**

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**EDUCATION**:

**Ph.D.** 1986, Agricultural and Resource Economics, University of Hawaii.

**M.B.A.** 1982, Business Administration, University of Hawaii.

**M.S.** 1982, Agricultural and Resource Economics, University of Hawaii.

**B.S.** 1977, Agricultural and Resource Economics, University of Hawaii (with Distinction)

**AWARDS & HONORARY ASSOCIATIONS**

Western Extension Directors Association (WEDA) Award of Excellence 2008, Regional Qualifying Program “Innovations in Niche and Value-Added Marketing” (members of Western Extension Marketing and Farm Management Committees)

Western Agricultural Economics Association 2006 “Outstanding Extension Program Award, for project”, (Western Extension Marketing Committee)

Gamma Sigma Delta Outstanding Worker in Extension 1990

Epsilon Sigma Phi, Gamma Sigma Delta, Phi Kappa Phi

**EXPERIENCE AND EMPLOYMENT RECORD**:

**Professor and Extension Economist in Agricultural Marketing** (July 1995 - present). University of Hawaii, Dept. of Human Nutrition, Food, and Animal Sciences (HNFAS). Research-Extension responsibilities. Area of specialization: marketing of perishable products, agricultural economics, agribusiness management. Prior to 1998: Dept. of Agricultural and Resource Economics (AREC)--transfer w/reorganization of college. **Hawaii Coordinator**, USDA Trade Adjustment Assistance for Farmers Program (2003-2010). **Founding Member,** **Advisory Council**, Western Center for Risk Management Education (2001 – 2005, 2007-2010). **Member**, Western Extension Marketing Committee (1992-present)

**Associate Professor and Extension Economist in Agricultural Marketing** (1990 - 1995); University of Hawaii, AREC. **CTAHR Microcomputer Instructional Lab Administrator** (1987-1995); **Assistant Professor and Extension Economist** (1986 - 1990). University of Hawaii, AREC. **Economist** (1986), Hawaii State Dept. of Agriculture, Planning and Development Office. **Research Associate** (1981 - 1986), Univ. of Hawaii, AREC.

**INSTRUCTION:**  (previously taught)

FSHN/TIM 310: Institutional Purchasing

FSHN/TPSS 322: Marketing of Perishable Products

AREC 210: Applied Calculus for Management, Life Sciences, and Human Resources

AREC 310: Statistics in Agriculture and Human Resources

AREC 429: Computer Applications in Economic Research

**FUNDING HISTORY:** 94 Grants totaling $7.1 million

**WORK IN PROGRESS (12/2020):**

Nakamoto, S.T., S. Motomura-Wages and R. Hamasaki. *<In press.>* Tea Survey 2019. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa.

Liu, Xiaohan, Stuart T. Nakamoto, and Yong Li. <submitted> Comparison of the antimicrobial properties of ohelo berry (Vaccinium calycinum) and cranberry (Vaccinium macrocarpon).

Kawabata, Andrea, Roxana Myers, Matthew Miyahira, Nicholas Yamauchi, Stuart T. Nakamoto. *Under review* Field Efficacy of Spinetoram for Management of Coffee Berry Borer (*Hypothenemus hampei*)

Bittenbender, HC and S.T. Nakamoto. *submitted*. CTAHR and Coffee in Hawaii 1986 to 2017. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Submitted 4/2019

Woodill, A. John, S.T. Nakamoto, A.M. Kawabata and P.S. Leung. *Submitted*  Optimal Spraying and Harvesting Strategy to Combat CBB: A Dynamic Approach

Kawabata, Andrea, S.T. Nakamoto, L. Keith, D. Oishi. *Submitted* Surveying, Sampling, and Monitoring of Coffee Leaf Rust (*Hemileia vastatrix*) for Early Disease Control in Hawaii. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa.

**PUBLICATIONS:**

Myers, Roxana, Andrea Kawabata, Alyssa Cho, and Stuart T. Nakamoto. 2020. Grafted Coffee Increases Yield and Survivability. HortTechnology, 30(3), 428-432. <https://doi.org/10.21273/HORTTECH04550-20>.

Kawabata, Andrea M., S.T. Nakamoto. Matthew Miyahira and R.T. Curtiss. July 2020. Recommendations for Coffee Berry Borer Integrated Pest Management in Hawaii - 2020. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Insect Pests IP-47. 26 pp.

Kawabata, Andrea M., S.T. Nakamoto, A. Cho, and R. Myers. December 2019. A Pictorial Guide to Coffee Grafting. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. CTAHR Fruit, Nut, and Beverage Crops F\_N-54, 9 pp. url: <https://www.ctahr.hawaii.edu/oc/freepubs/pdf/F_N-54.pdf>

Hamasaki, Randall T. and S.T. Nakamoto. December 2019. Pesticides Registered for Use in Tea in Hawaii, College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. CTAHR Fruit, Nut, and Beverage Crops F\_N-52, 4 pp. url: https://www.ctahr.hawaii.edu/oc/freepubs/pdf/F\_N-52.pdf

Woodill, A. John, S.T. Nakamoto, A.M. Kawabata, S. Arita and P.S. Leung. May 2019. The Impact of CBB on the Economics of Coffee Production in Hawaii: 2007-2012 USDA Census Analysis. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Insect Pests IP-46, 12 pp.   
 url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/IP-46.pdf

Hamasaki, Randall T. and S.T. Nakamoto. October 2018. In-Tray Procedure for Rooting Tea Cuttings, College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Soil and Crop Management SCM-35., 4pp. url: https://www.ctahr.hawaii.edu/oc/freepubs/pdf/SCM-35.pdf

Kawabata, Andrea M, Roxana Myers, Alyssa Cho, and S.T. Nakamoto. May 2018. Coffee Root-Knot Nematode Sampling Procedures. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Plant Disease PD-114. 3 pp.

Cho, Alyssa, Marisol Quintanilla-Tornel , Ty McDonald , Andrea Kawabata , and Stuart T. Nakamoto. November 2017. ‘Sharwil’ Avocado Identification. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Fruit, Nut, and Beverage Crops F\_N-50, 3 pp.   
url: https://www.ctahr.hawaii.edu/oc/freepubs/pdf/F\_N-50.pdf

Woodill, A. John, S.T. Nakamoto, A.M. Kawabata and P.S. Leung. October 2017. To Spray or Not to Spray: A Decision Analysis of Coffee Berry Borer in Hawaii. *Insects.*  2017; 8(4):116.   
url: http://www.mdpi.com/2075-4450/8/4/116/pdf

Hamasaki, Randall T., A.M. Kawabata and S.T. Nakamoto. July 2017. Insect and Mite Pests of Blueberries in Hawaii. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Insect Pests IP-42, 23 pp. url: https://www.ctahr.hawaii.edu/oc/freepubs/pdf/IP-42.pdf

Kawabata, Andrea M., S.T. Nakamoto and R.T. Curtiss. June 2017. Recomendaciones para el manejo integrado de plaga de la broca del café en Hawái 2016 (Recommendations for Coffee Berry Borer Integrated Pest Management in Hawaii – 2016). College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Insect Pests IP-41\_Spanish, 25 pp. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/IP-41\_Spanish.pdf

Kawabata, Andrea M., S.T. Nakamoto and R.T. Curtiss. March 2017. Recommendations for Coffee Berry Borer Integrated Pest Management in Hawaii - 2016. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Insect Pests IP-41, 24 pp. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/IP-41.pdf

Kawabata, Andrea M., S.T. Nakamoto, R.T. Curtiss, and Raymond Carruthers (eds) 2016. Proceedings: 2016 Coffee Berry Borer Summit and Conference. Komohana Research and Extension Center and Courtyard King Kamehameha’s Kona Beach Hotel, March 15-16, 2016. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. 23 pp.   
url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/CBB\_Summit\_2016\_Proceedings.pdf

Hewlett, John, Kate Fuller, Stuart T Nakamoto, Shannon Neilbergs, Kathleen Painter, Clark Seavert, Dawn Thilmany, Hernan Tejeda, Jo Ann Warner, Savannah Noray. 2016. 2016 Western Extension Committee Ag Industry Survey. Western Extension Committee. 124 pp.   
http://wec.farmmanagement.org/Publications/AIS\_2016/2016\_WestAgIndustrySurvey\_WEC\_FINAL.pdf

Motomura, Sharon, Alyssa Cho, Randall Hamasaki, Kiersten Akahoshi, Andrea Kawabata, Andrew Kawabata, and Stuart Nakamoto. November 2016. Evaluation of pot size for greenhouse production of ‘Misty’ Southern highbush blueberry in Volcano, Hawaii. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Fruit, Nut, and Beverage Crops F\_N-48. http://www.ctahr.hawaii.edu/oc/freepubs/pdf/F\_N-48.pdf

Hamasaki, Randall T., Takahiro Ino, and S.T. Nakamoto. Sept 2016. Green Tea Quality Evaluation: Identifying Common Defects. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Food Safety and Technology FST-65, 4 pp. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/FST-65.pdf

Hamasaki, Randall T. and S.T. Nakamoto. Aug 2016. ‘Mealani”: A New Variety of Tea for Hawaii. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. New Plants for Hawaii NPH-15, 3 pp. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/NPH-15.pdf

Hamasaki, Randall T., S.A. Motomura, and S.T. Nakamoto. December 2015. Hawaii Tea Growers’ Survey 2014. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. New Plants for Hawaii NPH-14, 10 pp. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/NPH-14.pdf

Kawabata, Andrea M., S.T. Nakamoto and R.T. Curtiss. Sept 2015. Recomendaciones para el manejo integrado de plagas de la broca del café en Hawái 2015 (Recommendations for Coffee Berry Borer Integrated Pest Management in Hawaii – 2015). College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. Insect Pests IP-33, 16 pp. url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/IP-33\_Spanish.pdf

77 (70+7) + 21 EFS

Kawabata, Andrea M., S.T. Nakamoto and R.T. Curtiss (editors). May 2015. Proceedings: 2015 Coffee Berry Borer Summit. USDA-ARS Daniel K Inouye Pacific Basin Agricultural Research Center, Hilo Hawaii. May 14, 2015. College of Tropical Agr. and Human Resources, University of Hawaii at Manoa. 143 pp.  
url: http://www.ctahr.hawaii.edu/oc/freepubs/pdf/CBB\_Summit\_2015\_Proceedings.pdf.

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**WORKSHOPS**

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Kawabata, Andrea, Roxana Myers, and Stuart T. Nakamoto. July 7, 2020. Coffee Root-knot Nematode Webinar

Hamasaki, Randall and S.T. Nakamoto. 2019. TEA 101: Tea Production and Processing Basics. UHM-CTAHR Mealani Research Station, Waimea, Hawaii

1. Session 19-1. May 7, 2019
2. Session 19-2. June 20, 2019
3. Session 19-3. July 9, 2019
4. Session 19-4. July 18, 2019
5. Session 19-5. August 21, 2019

Hamasaki, Randall and S.T. Nakamoto. August 19, 2019. “Okumidori” Tea Variety Distribution Event. UHM-CTAHR Mealani Research Station, Waimea, Hawaii

Kawabata, Andrea and Stuart T. Nakamoto. May 2019. Coffee Basics (Hawaii) at “Learning with Hawaii,” Frinj Coffee, Goleta, California. May 31, 2019.

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Myers, Roxana, Andrea Kawabata, Alyssa Cho, Javier Mollinendo Ticona and S.T. Nakamoto. April 2019. Coffee Root-Knot Nematode 101 – Kau. Pahala Community Center, Hawaii. April 2, 2019.

Kawabata, Andrea M., Matt Miyahira and S.T. Nakamoto. Jan 2019. Coffee Pruning Field Day, at Kona Cooperative Extension Office & Kona Research Station January 30, 2019

Hamasaki, Randall and S.T. Nakamoto. 2018. TEA 101: Tea Production and Processing Basics. UHM-CTAHR Mealani Research Station, Waimea, Hawaii

1. Session 18-1. January 23, 2018
2. Session 18-2. April 25, 2018
3. Session 18-3 September 11, 2018
4. Session 18-4 December 6, 2018

Kawabata, Andrea M and S.T. Nakamoto. 2018. Coffee Pruning Strategies Field Days

1. Session 1. February 28, 2018 Comparison of Strategies, at Kona Cooperative Extension Office & Kona Research Station
2. Session 2. March 1, 2018. Comparison of Strategies, at Kona Cooperative Extension Office & Kona Research Station
3. Session 3. June 14, 2018 (morning). Desuckering, at Kona Research Station.
4. Session 4. June 14, 2018 (afternoon). Desuckering, at Kona Research Station.
5. Session 5. October 15, 2018. Harvest, at Kona Research Station

Cho, Alyssa, A.M. Kawabata, T. McDonald, and S.T. Nakamoto. 2018. Hands on Avocado Grafting Workshop for Commercial Growers. UHM Komohana Research $ Extension Center

1. Session 1. March 28,2018 at Komohana Research and Extension Center
2. Session 2. March 29, 2018 at Kona Cooperative Extension Office
3. Session 3. March 29, 2018 at Kona Cooperative Extension Office
4. Session 4. August 14, 2018 at Kona Cooperative Extension Office

Hamasaki, Randall and S.T. Nakamoto. August 28, 2018. “Mealani’ Tea Variety Distribution Event. UHM-CTAHR Mealani Research Station, Waimea, Hawaii

Lee, Kraig, Andrea Kawabata, Roxana Myers, Alyssa Cho, and S.T. Nakamoto. June 2018. Grafting Coffee for Root-knot Nematode Management. UHM-CTAHR Kona Cooperative Extension Office and Research Station, Kainaliu, Hawaii.

1. June 21, 2018. Morning session
2. June 21, 2018. Afternoon session

Myers, Roxana, Andrea Kawabata, Alyssa Cho, Jen Burt and S.T. Nakamoto. January 2018. Coffee Root-Knot Nematode Workshop & Field Day for Commercial Growers – Kona. UHM-CTAHR Kona Cooperative Extension Office and Research Station, Kainaliu, Hawaii.

1. January 10, 2018
2. January 11, 2018

Hamasaki, Randall, A.M. Kawabata and S.T. Nakamoto. 2017. TEA 101: Tea Production and Processing Basics. UHM-CTAHR Mealani Research Station, Waimea, Hawaii

1. Session 17-1. March 1, 2017
2. Session 17-2. March 15, 2017
3. Session 17-3. May 3, 2017.

Nakamoto, S.T. August 2017. Cost of Production for Coffee (6 small group sessions). UHM-CTAHR Kona Cooperative Extension Office and Research Station, Kainaliu, Hawaii August 16-24, 2017

Nakamoto, S.T. 2016. Recordkeeping for Agricultural Professionals.

1. August 30, 2016 Maui CES, Kahului, Maui
2. August 31, 2016. Pearl City Urban Garden Center, Honolulu, Hawaii
3. September 8, 2016. Kona CES Office, Kainaliu, Hawaii
4. September 12, 2016. Lihue Library, Lihue, Kauai
5. September 13, 2016. Komohana Research & Extension Center, Hilo, Hawaii.

Hamasaki, Randall, A.M. Kawabata and S.T. Nakamoto. 2016. TEA 101: Tea Production and Processing Basics. UHM-CTAHR Mealani Research Station, Waimea, HI

1. Session 16-1. January 14, 2016
2. Session 16-2. February 11, 2016
3. Session 16-3. March 31, 2016
4. Session 16-4. April 28, 2016
5. Session 16-5. June 23, 2016.

Hamasaki, Randall and S.T. Nakamoto. Oct 2016. Tea Processing Demonstration for 2016 National Association of County Agricultural Agents,Western Regional Annual Meeting and Professional Improvement Conference. Mealani Research Station, Waimea, Hawaii

Hamasaki, Randall and S.T. Nakamoto. 2015. “An Introduction to Tea and Tea Processing”

1. November 18, 2015. Maui CES Office, Kahului, Maui.
2. November 19, 2015. Pearl City Urban Garden Center, Pearl City, Oahu.

Nakamoto, S.T. 2015. Farm Recordkeeping

1. March 1, 2015. DHH, Waimea, Hawaii
2. March 2, 2015. Komohana Research & Extension Center, Hilo, Hawaii.
3. May 12, 2015. Kohala Village Hub, Hawi, Hawaii.
4. July 28, 2015. Gailbraith Estates Farmer Training Program. Whitmore Village, Oahu

Nakamoto, S.T. 2015. Farmers Market and Local Food Promotion Program: Grantwriting Workshops

1. April 7, 2015. University of Hawaii at Manoa, Honolulu, Hawaii
2. April 15, 2015. Kona Cooperative Extension Service, Kainaliu-Kona, Hawaii.
3. April 16, 2015. Komohana Research & Extension Center, Hilo, Hawaii.

Kawabata, Andrew F., R. Hamasaki, AM Kawabata, S. Motomura, K Akahoshi and S.T. Nakamoto. 2105. “Blueberry Field Day”. UHM-CTAHR Volcano Research Station, Volcano, HI.

1. March 12, 2015
2. May 5, 2015

Nakamoto, Stuart T. 2015. “NAP and NAP Buyup”

1. October 16, 2015. Kauai Community College, Lihue, Kauai
2. October 19, 2015. Kona CES Office, Kainaliu-Kona, Hawaii
3. October 21, 2015. Kamuela CES Office, Kamuela, Hawaii
4. October 28, 2015. Kula Community Center, Kula, Hawaii
5. November 3, 2015. Komohana Research & Extension Center, Hilo, Hawaii
6. November 5, 2015. Pahala Community Center, Pahala, Hawaii.

Ino, T., K. Ino, R. Hamasaki, and S.T. Nakamoto. December 1, 2015. “Quality Evaluation of Tea.” Waimea Civic Center, Kamuela, Hawaii.

Nakamoto, Stuart T. October 20, 2015. “Risk and Risk Management” Kohala Village Hub, Hawi, Hawaii.

Nakamoto, Stuart T., AM Kawabata, R. Hamasaki. August 26-27, 2015. Kona Farm Tour, Fruit Sampling, and Tea Production Event. Kona and Mealani Research Stations, Hawaii.

Nakamoto, Stuart T. 2014. (1) Introduction to Risk and Risk Management (2) Federal Disaster Assistance Programs and (3) Federal Crop Insurance for Hawaii Growers (three presentations).

1. Sept. 15, 2014. Kua O Ka Aina School, Kapoho, Hawaii
2. Sept. 16, 2014. Hilo Community College, Hilo, Hawaii

Nakamoto, S.T. 2014. Farm Recordkeeping

1. August 18, 2014. Kua O Ka Aina School, Kapoho, Hawaii
2. August 19, 2014. Hilo Community College, Hilo, Hawaii

Nakamoto, Stuart T. 2014. Marketing and Adding Value.

1. July 30, 2014. Kua O Ka Aina School, Kapoho, Hawaii
2. August 5, 2014. Hilo Community College, Hilo, Hawaii

Hamasaki, Randall and S.T. Nakamoto. 2014. TEA 101: Tea Production and Processing Basics. UHM-CTAHR Mealani Research Station, Waimea, HI

1. Session 14-1. January 15, 2014
2. Session 14-2. February 12, 2014
3. Session 14-3. March 20, 2014
4. Session 14-4. March 25, 2014
5. Session 14-5. April 11, 2014
6. Session 14-6. May 14, 2014.
7. Session 14-7. June 12, 2014.

Hamasaki, Randall, A.M. Kawabata and S.T. Nakamoto. 2014. “Hands-On Tea Propagation Workshop.” UHM-CTAHR Mealani Research Station, Waimea, HI

1. Session 14-1. June 17, 2014
2. Session 14-2. July 9, 2014

Kawabata, Andrew F., R. Hamasaki, AM Kawabata, S. Motomura, K Akahoshi and S.T. Nakamoto. 2014. “Blueberry Field Day”. UHM-CTAHR Volcano Research Station, Volcano, HI.

1. April 15, 2014
2. Sept 24, 2014

Nakamoto, Stuart T. May 19, 2014. “Tea Cultivation Basics.” UHM-CTAHR Poamoho Research Station, Wailua, HI.

Nakamoto, Stuart T. December 5, 2013. “Nursery Profit and Break Even Estimator” CTAHR-TPSS, University of Hawaii at Manoa, Honolulu, Hawaii.

Nakamoto, Stuart T. 2013. (1) Introduction to Risk and Risk Management (2) Federal Disaster Assistance Programs and (3) Federal Crop Insurance for Hawaii Growers (three presentations).

1. October 5, 2013. Intergenerational Center, Hawi, Hawaii
2. October 9, 2013. Hilo Community College, Hilo, Hawaii
3. October 10, 2013. Captain Cook, Hawaii
4. October 14, 2013. Kapoho, Puna, Hawaii.
5. October 19, 2013 NHERC, Honokaa, Hawaii

Nakamoto, Stuart T. 2013. Marketing and Adding Value.

1. September 5, 2013. Intergenerational Center, Hawi, Hawaii
2. September 11, 2013. Hilo Community College, Hilo, Hawaii
3. September 12, 2013. UH West Hawaii, Kealakekua, Hawaii
4. September 23, 2013. Kapoho, Puna, Hawaii.
5. October 5, 2013. NHERC, Honokaa, Hawaii.

Nakamoto, S.T. 2013. Farm Recordkeeping

1. August 28, 2013 Kula, Maui
2. September 16, 2013. Kapoho, Puna, Hawaii
3. September 26, 2013. Intergenerational Center, Hawi, Hawaii.
4. October 17, 2013. Captain Cook, Kona
5. October 21, 2013 NHERC, Honokaa, Hawaii
6. October 23, 2013. Hilo Community College, Hilo, Hawaii
7. December 3, 2013. Guest Lecture at CTAHR-TPSS. UHM, Honolulu, Hawaii

Nakamoto, S.T. and Andrea Kawabata. 2013. Coffee Cost of Production

1. July 11, 2013. Pahala, Hawaii
2. July 24, 2013. Kainaliu, Kona, Hawaii

Kawabata, Andrea and S.T. Nakamoto. 2013. Coffee Berry Borer Integrated Pest Management (CBB-IPM) workshop and field tours.

1. June 15, 2013. Kula, Maui
2. July 9, 2013. Kualapuu, Molokai
3. July 22, 2013. Aupuni Center, Hilo, Hawaii.
4. August 7, 2013. Waimea Civic Center, Waimea, Hawaii.
5. September 20, 2013. Kunia, Oahu

Hamasaki, Randall and S.T. Nakamoto. 2013. TEA 101: Tea Production and Processing Basics. UHM-CTAHR Mealani Research Station, Waimea, HI

1. Session 13-1. April 29, 2013
2. Session 13-2. June 13, 2013.
3. Session 13-3. August 8, 2013
4. Session 13-4. September 10, 2013
5. Session 13-5. October 18, 2013
6. Session 13-6. November 20, 2013
7. Session 13-7. December 18, 2013

Kawabata, Andrea M., R. Tsutsui, M. Diaz-Lyke, and S.T. Nakamoto (organizers). April 27, 2013. Orchard Growers Field Day. UHM-CTAHR Kona Research Station, Kainaliu, HI.

Kawabata, Andrew F., R. Hamasaki and S.T. Nakamoto. March 27, 2013. Blueberry Field Day. UHM-CTAHR Volcano Research Station, Volcano, HI.

Kawabata, Andrea M , R. Tsutsui, R. Hamasaki and S.T. Nakamoto. March 20, 2013, Hands-On Tea Propagation Workshop. Kainaliu CES Office, Kainaliu, HI.

Kawabata, Andrea M. and S.T. Nakamoto (conveners). January 19, 2013. Ag Professionals Coffee Berry Borer Summit: Coffee Berry Borer Integrated Pest Management Methods and Protocols for Hawaii. USDA-Pacific Basin Agricultural Research Center, Hilo, Hawaii.

Hamasaki, R. and S.T. Nakamoto. 2012. Hands-On Tea Propagation Workshop. Mealani Research Station, Waimea, HI.

1. November 7, 2012.
2. November 13, 2012

Nakamoto, Stuart T. 2012. Marketing and Adding Value.

1. October 2, 2012. UH-HCC Beginning Farmer Program. NHERC meeting room (Old Honokaa Hospital), Hamakua, Hawaii.
2. November 13, 2012. UH-HCC Ag Educ Center Beginning Farmer Program, Hawaii Community College, Hilo, HI.

Nakamoto, Stuart T. 2012. (1) Introduction to Risk and Risk Management and (2) Federal Crop Insurance and Disaster Assistance Programs for Hawaii Growers (two presentations).

1. February 28, 2012. East Hawaii Tropical Fruit Growers. Komohana CES Office, Hilo Hawaii.
2. July 26, 2012. At 2012 Hawaii MIDPAC Horticultural Conference, Imiloa Center, Hilo, Hawaii
3. August 28, 2012. Molokai Growers. OHA Conference Room. Kaunakakai, Molokai. Also FSA Disaster Assistance Programs.
4. Sept. 18, 2012 UH-HCC Beginning Farmer Program. NHERC meeting room (Old Honokaa Hospital), Hamakua, Hawaii.
5. December 11, 2012. UH-HCC Ag Educ Center Beginning Farmer Program, Hawaii Community College, Hilo, HI.

Nakamoto, Stuart T. 2012. Overview of Risk Management & Crop Insurance.

1. February 9, 2012. At Oahu Risk Management School, Okinawa Center, Honolulu, Hawaii.
2. June 7, 2012. At Risk Management School for Kona Coffee Farmers. King Kamehameha Hotel. Kona, Hawaii
3. June 9, 2012. At Risk Management School for Kau Coffee Growers. Old Pahala Clubhouse, Pahala, Hawaii
4. July 24, 2012. At Hawaii Floriculture Risk Management School: Symposium. University of Hawaii at Hilo.

Nakamoto, S.T. 2012. Farm Recordkeeping Workshop

1. February 28, 2012. Waimea/Kohala/Hamakua Growers. Waimea Civic Center, Waimea, Hawaii.
2. March 13, 2012. Kona Growers. Kainaliu CES Office, Kona, Hawaii.
3. April 12, 2012. Kauai Tropical Fruit Growers. Kauai Nursery and Landscape, Lihue, Kauai.
4. May 30, 2012. East Hawaii Growers. Komohana CES Office, Hilo, Hawaii.
5. September 11, 2012. Recordkeeping for Molokai Growers. OHA Conference Room. Kaunakakai, Molokai
6. October 23, 2012. UH-HCC Beginning Farmer Program. NHERC meeting room (Old Honokaa Hospital), Hamakua, Hawaii.
7. November 27, 2012. UH-HCC Ag Educ Center Beginning Farmer Program, Hawaii Community College, Hilo, HI

Nakamoto, S.T. September 25, 2012. Creating a Farm Business Plan. OHA Conference Room. Molokai, Hawaii.

Hamasaki, Randall, A. Kawabata, E. Souza-Goo and S.T. Nakamoto. August 31, 2012. Tea and Blueberry Tour for Agricultural Professionals. Volcano Research Station, Volcano, Hawaii.

Kawabata, Andrea and Team LIFE (co-organizer). June 9, 2012. Risk Management School for Kau Coffee Growers. Old Pahala Clubhouse, Pahala, Hawaii

Kawabata, Andrew, R. Hamasaki, Andrea Kawabata, and S.T. Nakamoto. June 8, 2012. Blueberry & Tea Field Day and Tour. Volcano Research Station, Volcano, Hawaii.

Kawabata, Andrea and Team LIFE (co-organizer). June 7, 2012. Risk Management School for Kona Coffee Farmers. King Kamehameha Hotel. Kona, Hawaii.

Kawabata, Andrew, R. Hamasaki and S.T. Nakamoto. April 3, 2012. Blueberry Field Day. Volcano Research Station, Volcano, Hawaii.

Hamasaki, R. and S.T. Nakamoto. Feb 16, 2012. Tea Pruning and Harvesting: Field Walk & Talk. Field Day at Mealani Research Station, Waimea Hawaii.

Sugano, Jari and Team LIFE (Co-organizer.) . February 9, 2012. Oahu Risk Management School, February 9, 2012. Okinawa Center, Honolulu, Hawaii.

Nakamoto, Stuart T. 2011. (1) Introduction to Risk and Risk Management and (2) Federal Crop Insurance and Disaster Assistance Programs for Hawaii Growers (two presentations).

1. October 13, 2011. Oahu Growers. Pearl City Urban Garden Center, Honolulu, Oahu.
2. November 3, 2011. East Hawaii Growers. Komohana CES Office, Hilo, Hawaii.
3. November 9, 2011. Kauai Growers. Kauai State Building, Lihue, Kauai.
4. November 29, 2011. West Hawaii Growers. Kainaliu CES Office, Kona, Hawaii.
5. December 7, 2011. East Hawaii Growers. Komohana CES Office, Hilo, Hawaii.
6. December 9, 2011. Kau Growers. Pahala Community Center, Pahala, Hawaii.
7. December 13, 2011. Maui Growers. Maui Cooperative Extension Office, Kahului, Maui.

Nakamoto, S.T. 2011. Farm Recordkeeping Workshop

1. April 6, 2011. Kona Coffee Growers Association. Yano Hall, Captain Cook, Hawaii.
2. April 12, 2011. Molokai Growers. Lanikeha Community Center, Hoolehua, Molokai.

Nakamoto, S.T., (alpha) J. Gonsowski, R, Hamasaki, E. Petersen, and A. Seguritan. Oct. 2011. Hawaii-Grown Tea: A Market Feasibility Study. Presented by Nakamoto at University of Hawaii at Hilo, October 18, 2011. Hilo, Hawaii.

Nakamoto, S.T., (alpha) J. Gonsowski, R, Hamasaki, E. Petersen, and A. Seguritan. Sept. 2011. Hawaii-Grown Tea: A Market Feasibility Study. Presentation at Hawaii State Capitol, Sept.12, 2011. Honolulu, Hawaii.

Nakamoto, S.T. April 20, 2011. Overview of Risk Management & Crop Insurance. At Extension/NRCS Risk Management Conference, April 20-21, 2011. University of Hawaii at Manoa, Honolulu, Hawaii.

Nakamoto, S.T. (conference organizer) April 20, 2011. Extension/NRCS Risk Management Conference. April 20-21, 2011. University of Hawaii, Honolulu, Oahu

Nakamoto, S.T. Feb 24, 2011. Update on Papaya Crop Insurance. Puna Papaya Growers, Keaau Community Center

Nakamoto, S.T. 2010. Farm Recordkeeping Workshop

1. February 17, 2010. Pacific Basin Ag Research Center, Hilo. Hawaii.
2. November 3, 2010. Maui Growers. Cooperative Extension Service Office, Kahului, Maui.
3. November 4, 2010. Hilo-Puna Growers. Komohana CES Office, Hilo, Hawaii.
4. November 5, 2010. Ka’u-South Kona Growers. Bayaoa Farm, Ocean View, Hawaii.
5. December 8, 2010. Waimea-Kohala-Hamakua Growers. Waimea Civic Center, Waimea, Hawaii
6. December 9, 2010. Kona Growers. Kona CES Office, Kainaliu, Hawaii

Nakamoto, Stuart T. 2010. (1) Introduction to Risk and Risk Management and (2) Federal Crop Insurance and Disaster Assistance Programs for Hawaii Growers (two presentations).

1. May 11, 2010. Maui Papaya and Banana Growers. Maui Cooperative Extension Office, Kahului, Maui.
2. May 13, 2010. Hilo Banana Growers. Komohana Cooperative Extension Office, Hilo, Hawaii.
3. May 17, 2010. Molokai Growers. MCC Classroom Bldg, Hoolehua, Molokai.
4. May 25, 2010. Kauai Banana, Papaya, and Coffee Growers. Kauai State Building, Lihue, Kauai.
5. May 27, 2010. Hilo Macadamia and Coffee Growers. Komohana Cooperative Extension Office, Hilo, Hawaii.
6. June 1, 2010. Kauai Nursery Growers. Kauai State Building, Lihue, Kauai.
7. June 9, 2010. Kona Macadamia Growers. Kona Cooperative Extension Office, Kainaliu, Hawaii.
8. June 14, 2010. Maui Coffee and Macadamia Growers. . Maui Cooperative Extension Office, Kahului, Maui.
9. June 16, 2010. Kona Coffee Growers. Kona Cooperative Extension Office, Kainaliu, Hawaii.
10. June 17, 2010. Ka’u Coffee and Macadamia Growers. Pahala Community Center, Kau, Hawaii.
11. June 21, 2010. Maui Nursery Growers. Maui CES Office, Kahului, Maui.
12. June 23, 2010. Oahu Nursery Growers. UH-Manoa Agr. Sciences Bldg, Honolulu, Hawaii.
13. June 24, 2010. Hilo Nursery Growers. Komohana CES Office, Hilo, Hawaii
14. June 25, 2010. Kona Nursery Growers. Kona CES Office, Kainaliu, Hawaii
15. June 30, 2010. Kona Banana, Papaya, and Coffee Growers. Kona CES Office, Kainaliu, Hawaii.
16. July 1, 2010. Kohala-Waimea-Hamakua Coffee and Macadamia Growers. Waimea Civic Center, Waimea, Hawaii.
17. July 8, 2010. Puna Papaya Growers. Kea’au Community Center, Puna, Hawaii.
18. July 13, 2010. Ocean View Growers. Bayaoa Farm, Ocean View, Hawaii.
19. November 8, 2010. Waimea-Kohala-Hamakua Growers. Waimea Civic Center, Waimea, Hawaii.
20. November 10, 2010. Hilo-Puna Growers. Komohana CES Office, Hilo, Hawaii.
21. November 16, 2010. Oahu Growers. Kaneohe Cooperative Extension Service Office, Kaneohe, Oahu.
22. November 17, 2010. Kona Growers. Kona CES Office, Kainaliu, Hawaii.
23. November 18, 2010. Ka’u Coffee Growers. Pahala Community Center, Pahala, Hawaii.
24. December 7, 2010. Maui Growers. Maui CES Office, Kahului, Maui.

Nakamoto, S.T. and T. Teegerstrom. December. 2010. “Nursery Profit and Break Even Estimator” at Nursery Risk Management Workshop, North Willamette Research and Extension Center, Aurora, OR. December 2, 2010.

Fukuda, Steve, J. Sugano, and S.T. Nakamoto. November 18-19, 2010. U.S, West Coast Papaya Evaluation: October 15-20, 2010. Local Immigrant Farmer Education (LIFE) program workshop. Presented by Fukuda.

1. November 18, 2010. Puna Papaya Growers. Keaau Community Center, Keaau, Hawaii.
2. November 19, 2010. Hawaii Papaya Industry Association Board. Komohana Cooperative Extension Service Office, Hilo, Hawaii.

Nakamoto, S.T., T. Teegerstrom, and R. Tronstad. October 2010. “Developing a Business Plan” workshop, in partnership with Local Immigrant Farmer Education (LIFE) program.

1. October 20, 2010. (presented by Tronstad and Nakamoto) Agader Farm, Waialua, Hawaii.
2. October 21, 2010. (presented by Tronstad and Nakamoto) Komohana Extension Office, Hilo, Hawaii.

Nakamoto, S.T., T. Teegerstrom, and R. Tronstad. October 22, 2010. “Developing a Marketing Plan” workshop for Ka’u Growers, in partnership with Local Immigrant Farmer Education (LIFE) program. Pahala Community Center, Hawaii.

Nakamoto, S.T. Oct. 8, 2010. “Introduction to Marketing and Adding Value” workshop for Oahu growers, in partnership with Local Immigrant Farmer Education (LIFE) program. Agader Farm, Waialua, Hawaii.

Nakamoto, S.T. October 6, 2010. “Cost of Production.” Workshop for Maui Agr. Farmer Trainee Program, in partnership with Local Immigrant Farmer Education (LIFE) program. CES Conference Room, Kahului, Maui.

Nakamoto, S.T. Oct. 5, 2010. “Introduction to Marketing and Adding Value” presentation and “Marketing Talk Story” Session in partnership with Local Immigrant Farmer Education (LIFE) program. (w/J. Sugano and S.Chiang at Risk Management Training for Ka’u Coffee Growers, October 5, 2010. Pahala Community Center, Ka’u, Hawaii.

Hamasaki, R. A. Kawabata and S.T. Nakamoto. July 2010. Blueberry Field Day. Field day at Lalamilo and Mealani Research Stations, Waimea. July 14, 2010

Nakamoto, Stuart T., Trent Teegerstrom and Russell Tronstad. March 2010. Intensive Crop Insurance Training for Agricultural Professionals. .Hands-on workshop on premium calculations, CTAHR Computer Lab, UH Manoa, Honolulu. March 8, 2010

Nakamoto, Stuart T., Trent Teegerstrom and Russell Tronstad. March 2010. Risk Management training workshops for Agricultural Professionals on (1) Introduction to Risk and Risk Management and (2) Federal Crop Insurance and Disaster Assistance Programs for Hawaii Growers (two presentations).

1. March 1, 2010. Hawaii County-Kona. Kona Cooperative Extension Office, Kainaliu, Hawaii.
2. March 2, 2010. Hawaii County-Hilo. Komohana Cooperative Extension Office, Hilo, Hawaii.
3. March 3, 2010. Oahu County. Treetops Restaurant, Honolulu, Oahu.
4. March 4, 2010. Kauai County. HDOA Conference Room, Lihue, Kauai.
5. March 5, 2010. Maui County. Maui Cooperative Extension Office, Kahului, Maui.

Hamasaki, R. and S.T. Nakamoto. Feb 2010. Blueberry Field Day: Early in the Season Look” Field day at Lalamilo Research Station, Waimea. February 17, 2010

Zee, F., R.T. Hamasaki, A. Kawabata and S.T. Nakamoto. 2009. “Ohelo, Vaccinium reticulatum, a specialty ornamental and value added crop from Hawaii.” Workshop presentation.

1. July 1, 2009. Big Island Association of Nurserymen, Kea’au Community Center, Kea’au, Hawaii
2. July 16-17, 2009. SCRI meetings, Corvallis, Oregon

Nakamoto, S.T. 2009. Introduction to AGR-Lite workshops.

1. February 26, 2009. Puna Papaya Growers, Kea’au Community Center, Kea’au, Hawaii
2. February 27, 2009. Ka’u Coffee Growers, Pahala Community Center, Ka’u, Hawaii.

Nakamoto, S.T. 2009. Farm Recordkeeping Workshop

1. February 12, 2009. Molokai Producers, Lanikeha Community Center, Hoolehuua, Molokai.
2. July 29, 2009. Maui Association of Landscape Professionals (MALP), CES Conference Room, Kahului, Maui.
3. October 14, 2009. Maui Agr. Farmer Trainee Program, CES Conference Room, Kahului, Maui.

Teegerstrom, T, U. Schuch, ST. Nakamoto. April 2009. “Nursery Cost/Profit Estimator” and “Capillary mats evaluation for the retail nursery.” Webinar Training with California Ornamental Research Federation, April 15, 2009

Nakamoto, S.T. December 2008. Farm Recordkeeping Workshop. Waimea Civic Center, December 16, 2008.

Nakamoto, S.T. and R. Hamasaki. September 2008. “In-Ground Procedure for Rooting Tea Cuttings” workshop at Mealani Research Station, Waimea, Hawaii. September 18, 2008.

Nakamoto, S.T., T. Teegerstrom and A. Kawabata September 2008. “Nursery Break-Even Price & Profit Estimator” and “Overview of Nursery Insurance Programs” 2008 RMA Plant Nursery Seminars and Workshops

1. Oahu – September 9, 2008. University of Hawaii at Manoa, Honolulu, Hawaii.
2. Hilo – September 10, 2008. Hilo Community College, Hilo, Hawaii
3. Maui – September 11, 2008. Maui Community College, Kahului, Hawaii

Teegerstrom, T and ST Nakamoto. July 2008. “Overview of IRS Form 1040 Schedule F” workshop presentation.

1. July 30, 2008 Risk Management Training for Immigrant Farmers of Hawaii (Puna Papaya Growers), Kea’au Community Center, Kea’au, Hawaii
2. July 31, 2008. Risk Management Training for Immigrant Farmers of Hawaii (Ka’u Coffee Growers), Pahala Community Center, Ka’u, Hawaii.
3. August 1, 2008 Risk Management Training for Immigrant Farmers of Hawaii (Waialua Growers), Haleiwa Courthouse, Haleiwa, Hawaii.

Hamasaki, R. and ST Nakamoto. May 8, 2008. “Blueberry Field Day at Lalamilo” event at Lalamilo Research Station, Waimea, Hawaii.

Nakamoto, S.T. May 1, 2008. “Nursery Break-Even Price & Profit Estimator” workshop at Miramar College, San Diego, CA.

Nakamoto, S.T. February 28, 2008. “Hawaii Tea” Introductory presentation for area growers, Waimea Civic Center, Waimea, Hawaii.

Nakamoto, S.T. February 21, 2008. “AGR-Lite for Nursery Growers,” workshop at Keaau Community Center, Keaau, Hawaii.

Teegerstrom, T. and S.T. Nakamoto. January 2008. “Farm Recordkeeping Overview and Example” workshop presentation. Beginning and Limited Resource Farmers Program

1. January 30, 2008 Risk Management Training for Immigrant Farmers of Hawaii (Waialua Growers), Haleiwa Courthouse, Haleiwa, Hawaii.
2. January 31, 2008 Risk Management Training for Immigrant Farmers of Hawaii (Puna Papaya Growers), Kea’au Community Center, Kea’au, Hawaii.
3. February 1, 2008. Risk Management Training for Immigrant Farmers of Hawaii (Ka’u Coffee Growers), Pahala Community Center, Ka’u, Hawaii.

Nakamoto, S.T. October 2007. “Hawaii Grown Tea”. Presentation to Kohala Senior Citizens Club, Kapaau Community Center. October 15, 2007.

Nakamoto, S.T. April 2007. “An Overview of the Hawaii-Arizona Nursery Cost Estimator” for Dendrobium Orchid Growers Association of Hawaii (DOGAH), April 12, 2007. HDOA Conference Room, Honolulu, Hawaii.

Nakamoto, S.T. March 2007. “Cost of Production for Ka’u Coffee” workshop at Risk Management Training for Filipino Immigrant Farmers of Hawaii (Ka’u Coffee Growers), March 30, 2007. Pahala Community Center, Ka’u, Hawaii.

Nakamoto, S.T. and T. Teegerstrom. March 2007. “Overview of AGR-Lite and Nursery Insurance Programs” and “Nursery Break-Even Price & Profit Estimator” at 2007 RMA Plant Nursery Seminars and Workshops

1. Oahu - March 14, 2007. University of Hawaii at Manoa, Honolulu.
2. Hilo – March 15, 2007. University of Hawaii at Hilo, Hilo
3. Maui – March 19, 2007. Maui Community College, Kahului
4. Kauai – March 20, 2007. Kauai Community College, Lihue

Nakamoto, S.T. February 2007. “Farm Business Recordkeeping” workshop at Risk Management Training for Filipino Immigrant Farmers of Hawaii (Ka’u Coffee Growers), February 8, 2007. Pahala Community Center, Ka’u, Hawaii.

Nakamoto, S.T. February 2007. “Introduction to Agr. Marketing” presentation at Risk Management Training for Filipino Immigrant Farmers of Hawaii (Ka’u Coffee Growers), February 8, 2007. Pahala Community Center, Ka’u, Hawaii.

Nakamoto, S.T. December 2006. ”Marketing Hawaii’s Agricultural Products” at Philippine International Trade Expo and International Summit & Workshops for Filipino Chambers of Commerce, Hawaii Convention Center, Dec 13-16, 2006. Honolulu, Hawaii.

Nakamoto, S.T. 2006. “Introduction to Agr. Marketing” presentations.

1. May 18, 2006. Risk Management Training for Filipino Immigrant Farmers of Hawaii (Puna Papaya Growers), Hilo Community College, Hilo, Hawaii.
2. Sept. 28, 2006. Risk Management Training for Filipino Immigrant Farmers of Hawaii (Puna Papaya Growers), Kea’au Hongwanji, Puna, Hawaii.

Nakamoto, S.T. 2006. “Farm Business Recordkeeping” workshops

1. March 16, 2006. Risk Management Training for Filipino Immigrant Farmers of Hawaii (Puna Papaya Growers), Church of Holy Cross, Hilo, Hawaii.
2. July 20, 2006. Risk Management Training for Filipino Immigrant Farmers of Hawaii (Puna Papaya Growers), Kea’au Hongwanji, Puna, Hawaii.

Nakamoto, S.T. 2006. “Introduction to a New Tool for Potted Plant Cost Analysis” presentations

1. March 20, 2006. at College of Tropical Agriculture and Human Resources, Honolulu, Hawaii
2. March 21, 2006. at Komohana CES Office, Hilo, Hawaii.
3. August 1, 2006. at Komohana CES Office, Hilo, Hawaii.

Nakamoto, S.T. October 2006. “An Overview of the Hawaii-Arizona Nursery Cost Estimator” at Hawaii Export Nursery Association 2006 Hawaii MIDPAC Horticultural Expo, October 19-20, 2006. Hilo Hawaii.

Nakamoto, S.T. February 2006. “Hawaii Grown Tea”. Educational Seminar at the Western Regional Conference of the American Culinary Federation (ACF). February 2-6, 2006. Hilton Waikoloa, Kona, Hawaii.

Nakamoto, S.T. 2005. “Introduction to Agr. Marketing” presentations.

1. June 2, 2005. Risk Management Training for Filipino Immigrant Farmers of Hawaii, Waialua, Oahu.
2. Aug 3, 2005. MATC Program, Kula, Maui.
3. Nov 17, 2005. Risk Management Training for Filipino Immigrant Farmers of Hawaii, Mililani Agr. Park, Oahu.

Nakamoto, S.T. 2005. “Farm Business Recordkeeping” workshops

1. June 9, 2005. Risk Management Training for Filipino Immigrant Farmers of Hawaii, Waialua, Oahu.
2. Nov 22, 2005. Risk Management Training for Filipino Immigrant Farmers of Hawaii, Mililani Agr. Park, Oahu.
3. December 14, 2005. MATC Program, Kahului, Maui.

Nakamoto, S.T. 2005. “Adding Value to Agr. Products” presentations

1. Feb. 16, 2005. Small Farm Sustainable Agriculture Education Program, Kauai Community College, Lihue, Kauai
2. Feb 28, 2005. Kaneohe Cooperative Extension Service Office, Kaneohe, Oahu.
3. July 25, 2005. Hawaii Tea Society, Komohana Extension Service Office, Hilo, Hawaii.

Nakamoto, S.T. September 2005. “Some Thoughts and Comments Regarding Tea as a Potential Crop for Hawaii” at Hawaii Value-Added Tea Project Educational Workshop, September 9, 2005. Mealani Research Station, Kamuela, Hawaii.

Nakamoto, S.T. August 2005. ”Marketing Hawaii’s Agricultural Products.” HNFAS seminar, August 29, 2005. Manoa, Honolulu.

Nakamoto, S.T. May 2005. ”Hawaii Grown Tea” at meeting of Hawaii Institute of Food Technologists, May 11, 2005. Pineapple Room, Honolulu.

Nakamoto, S.T. Feb 2005. “Why Marketing?” at Ag Production and Marketing Mini Conferences

1. Feb 17, 2005 at Filipino Community Center, Waipahu, Oahu.
2. Feb 24, 2005 at Keaau Community Center, Keaau, Hawaii.

Nakamoto, S.T. 2004. Trade Adjustment Assistance (TAA) training for Alaska Salmon Fishermen. Trainer for ten sessions at six locations for fishermen located in Hawaii. Jan-May, 2004.

Nakamoto, S.T. Nov. 2004. “Adding Value to Agr. Products,” for Food Industry Career Pathways Program 2004, Kauai Community College, November 13, 2004

S.T. and R. Hamasaki. 2004. “Tea production and processing” demonstration at CTAHR Student Ambassador Tour, Mealani Station25, 2004.

Nakamoto, S.T. June 2004. “Adding Value to Agr. Products: The Role of MFX in Marketing and Adding Value,” for Maui Farmers Exchange Co-operative, Kahului, Maui. June 3, 2004.

Nakamoto, S.T. May 2004. ”Hawaii Grown Tea: Introduction to the Tea Project” at Agriculture Development Corporation, May 12, 2004. ADC Boardroom, Honolulu. (representing CTAHR Tea Project: D. Sato, M. Yamasaki, R. Hamasaki, S.T. Nakamoto)

Nakamoto, S.T. Feb. 2004. “Marketing and Adding Value in Kona Coffee” at Kona Coffee Industry Coffee Talk Series, Kona Experiment Station, Kainaliu, Feb 11, 2004.

Nakamoto, S.T. Dec. 2003. “Marketing and Adding Value” Trainees, Kula Exp Station.

Nakamoto, S.T. June 2003. “Adding Value to Agr. Products,” for Food Industry Career Pathways Program 2003, Kauai Community College, June 11, 2003

Nakamoto, S.T. June 2003. “Marketing Hawaii’s Agricultural Products,” for Food Industry Career Pathways Program 2003, Kauai Community College, June 18, 2003

Nakamoto, S.T. May 2003. “Economics of Coffee Farming” at Kona Coffee Growing Forum, May 17, 2003. Kona Bonsai Park, Holualoa, Hawaii.

Nakamoto, S.T. April 2002. “Computerized Cost of Production Workshop,” 2-day workshop (1) Spreadsheet Refresher and (2) Cost of Production. Maui Community College, April 1 & 3, 2002.

Nakamoto, S.T. Jan. 2002. “Economics of Agriculture in Hawaii.” Presentation for Univ. of Delaware Nutrition group, Komohana.

Nakamoto, S.T. "Marketing Hawaii Papaya" industry panel at 37th Hawaii Papaya Industry Association Annual Conference, September 21-22, 2001. Nani Mau Gardens, Hilo. (panel moderator)

Nakamoto, S.T. July 2000. “Using Supply and Demand to Understand Marketing” Presentation for Maui Onion Growers Association, Kula, July 2000.

Nakamoto, S.T. February 1998. “How to Add Value to a Product” Seminar for Dept. of Food Science and Human Nutrition.

Nakamoto, S.T. July 1997. “Overview of Dry Onions in Hawaii” Presentation at Maui Onion Growers Informational Meeting, Kula, July 22, 1997.

Nakamoto, S.T. and J. Halloran. July 1997. “Federal Marketing Orders” Presentation by Nakamoto at Maui Onion Growers Informational Meeting, Kula, July 22, 1997.

Nakamoto, S.T. February 1997. “Introduction to Cost of Production and Marketing Budgets” Presentation at Papaya Production Information Program, Lihue, February 21, 1997.

Nakamoto, S.T. May 1996. “Market Impact of Proclaim™ on Head Cabbage Production” workshop presentation for producers on Oahu (May 20), Maui (May 21), and Hawaii (May 22).

Nakamoto, S.T. January 1996. “Some Thoughts on PRV, Papaya Marketing, and the Papaya Industry.” PPATH Seminar, UH-CTAHR.

Nakamoto, S.T. July 1995. “Using the VEGE Crop Budget Generator.” Workshop for Hawaii State Dept. of Agriculture, US Soil Conservation Service, and Hawaii State Dept. of Business, Economic Development, and Tourism. Sherman Lab, Univ. of Hawaii.

Nakamoto, S.T. June 1991. "Marketing Agricultural Products," workshop for Japan/Okinawa trainees under The Association for International Collaboration of Farmers, Japan. June 14, 1991. Kamuela, Hawaii. (M. Horiuchi, interpreter).

Nakamoto, S.T. April 1991. "What is Agricultural and Resource Economics?", at Hawaii Agricultural Leadership Foundation seminar, April 8, 1991. Honolulu.

Nakamoto, S.T. June 1990. "Marketing Agricultural Products," workshop for Japan/Okinawa trainees under The Association for International Collaboration of Farmers, Japan. Kamuela, Hawaii. (M. Horiuchi, interpreter).

Nakamoto, S.T. and J.M. Halloran. September 1989. "The Importance of Knowing Your Cost of Production" at Wholesaler-Farmer Price Fixing Workshops:

1. Kaneohe, Sept. 27, 1989
2. Waianae, Sept. 28, 1989
3. Kula, Nov. 7, 1989
4. Kamuela, Nov. 8, 1989

Halloran, J.M. and S.T. Nakamoto. September 1989. "Knowing Your Cooperative's Antitrust Status" at Honolulu Wholesaler-Farmer Price Fixing Workshops.

1. Kaneohe, Sept. 27, 1989
2. Waianae, Sept. 28

Nakamoto, S.T. June 1989. "Agricultural Marketing Systems and Organizations," workshop for Japan/Okinawa trainees under The Association for International Collaboration of Farmers, Japan. Kamuela, Hawaii. (S. Honda, interpreter).

Nakamoto, S.T. April 1988. "Screening Alternatives Crops and Products for Hawaii" at Extension RREA-Agriculture Workshop, April 11-12, 1989

Halloran, J.M. and S.T. Nakamoto. Marketing Short Course series, Kula, Maui.

a. "Introduction to Marketing," March 9, 1988.

b. "Introduction to Marketing Strategy," April 6, 1988.

c. "Pricing Strategy," May 4, 1988.

d. "Advertising and Promotion," June 7, 1988.

e. "Group Marketing," August 3, 1988.

Nakamoto, S.T. October 1987. "Marketing Agricultural Products." UH Department of Horticulture seminar.

Nakamoto, S.T. June 1987. "Marketing Agricultural Products," workshop for Japan/Okinawa trainees under The Association for International Collaboration of Farmers, Japan. Captain Cook, Hawaii. (S. Honda, interpreter).

Nakamoto, S.T. February 1987. "The Rental Approach to Nursery Cost of Production." Workshop at meeting of the Oahu Nursery Growers' Association, Honolulu, Hawaii.

Nakamoto, S.T. January 1987. "The Markets for Kona Coffee." UH Department of Agricultural and Resource Economics seminar.

**SERVICE ACTIVITIES**

INDUSTRY

add. Feasibility analysis for Kauai papaya processing facility

Hawaii AGR Lite

Steering committee, Kauai papaya processing facility reopening, 2006-2008

Recreational fishing survey instrument for Wahiawa Middle School fish hatchery. 2005

Hawaii coordinator (w/J. Hollyer). USDA investigation of Hawaii transportation situation. 2003-2004.

Organizing Committee. "Creating a State Brand... -- Culinary Fusion of Oregon and Hawaii" videoconference w/ Food Innovation Center (Portland OR) and CTAHR, July 11, 2001

Organizing Committee, County Agriculture Workshops

"Hawaii To Go," Maui County Agricultural Marketing Conference, Outrigger Wailea Resort, March 10, 2001

"Farm Records and Bookkeeping" Part 1 October 3, 2000; Part II October 10, 2000, Pukalani

“Maui Marketing Conference,” Maui Community College, Kahului, June 17, 2000.

Steering Committee, 1997 Oahu Vegetable Growers Marketing Conference, Leeward Community College, Honolulu, March 28-29, 1997.

Organizing Committee (co-chair), “Marketing for Profit in Agriculture—Emerging Marketing Opportunities for Hawaii,” Keauhou-Kona, Hawaii, March 24-25, 1995.

Agricultural Products Transportation Advisory Group, 1996-1997

Farmer-Chef Advisory Committee, DOA (inc. source book) 1995-1998

NATIONAL & REGIONAL

Western Agr. Economics Association/Western Economics Committee reviewer for papers and posters for Annual Meeting, 2019

USDA NIFA proposal reviewer, 2015-2016.

Hawaii Coordinator, USDA Trade Adjustment Assistance 2003-2011 (statutory authority for program expired)

“TAA for Alaska Salmon” trainer, 2004. Ten sessions conducted on six islands for 19 applicants.

Advisory Council, Western Center for Risk Management Education 2001-2005, 2007-2011

Member, Western Extension Marketing Committee 1992-present

Western Extension Farm Management Committee 1989-1990

Hawaii Representative, Steering committee. Pacific Rim Swine Waste Management Systems: Second International Symposium and Technical Sessions, University of Hawaii, September 8-11, 1997.

UNIVERSITY & COLLEGE

Kona Coffee Cultural Festival Ho’olaulea display 2019

Kamuela Research Station complex strategic planning

2007 Pineapple Festival, Hawaii Tea display and product sampling. May 26, 2007 at Wahiawa District Park. Est 7000-8000 attendees.

*Taste of the Hawaiian Range* Kamuela Grown survey Sept. 2006, product demonstrator (Hawaii Tea), Sept. 2004, Sept. 2005 at Hilton Waikoloa.

University TPRC 1993, 1997, 1998-99, 2002, 2008, 2011-12, 2019-20

CTAHR Outstanding Alumni Selection Committee, 1997-99; Chair 1998-99

CTAHR Student orientation committee 1996

May 1995 Faculty judge at undergraduate Economics poster show

Gamma Sigma Delta Awards Committee 1988-1994, Chair 1992

CTAHR Senate adhoc committee on fiscal affairs

Public Health DPC 2016-17

DEPARTMENT

Position search committee 2006

HNFAS Chair Advisory Board (CAB) 2000-

Dept. Personnel Committees. various. Chair 2000-2002, 2009-10, 2011-13, 2017-18

Policy Committee 2002-present, Chair 2003-2006

Undergraduate Advisor 1989-1993, 2003-2008

MS & PhD committees, various

MS comprehensive committee 1996

PhD Core Examination Committee 1995

GUEST LECTURER

The Nursery Break Even Price and Profit Estimator, TPSS 402 Flower & Foliage Crop Production (Amore), Dec 7, 2017

On Sustainability and Hawaii Agriculture, FSHN/ANSC 601 (Dobbs), Sept 19, 2016

On Sustainability and Hawaii Agriculture, FSHN/ANSC 601 (Dobbs & Vincent), Nov 16, 2015

The Nursery Break Even Price and Profit Estimator, TPSS 402 Flower & Foliage Crop Production (Amore), nov 19 & 24, 2009.

Marketing Hawaii’s Agricultural Products, FSHN/ANSC 601, Sept 10, 2007.

Marketing Hawaii’s Agricultural Products, FSHN 601, Sept 25, 2006.

Adding Value to Agr. Products, University of Hawaii at Hilo, Oct 17, 2003

Hort (Manshardt) informal seminar on prices & cost of local vs imported produce, 4/30/99

Marketing Strategies for Hawaii Agricultural Products, HORT 300, Sp. 97

Models and Modelling in Agr. Economics HORT 601 S ‘94

Intro to Microcomputers and Applications in Agr. Hort 364 () F 1991, F 1992

NSF intro to Microcomputers. SS 1991, SS 1992

Role of Agriculture in Hawaii Economy. Intro. Economics lecture (G. Okimoto), KCC, Sp. 1991, Sp 1992.

**CURRICULUM VITAE**

RACHEL NOVOTNY

Human Nutrition, Food and Animal Science Department  
College of Tropical Agriculture and Human Resources  
University of Hawaii at Manoa

**EDUCATION**

1986 PhD, Cornell University, Ithaca, NY. Major: International Nutrition. Minors: Epidemiology/Population Studies and Anthropology. Dissertation: Preschool Child Feeding, Health, and Nutritional Status in Highland Ecuador.

1982 MS, Cornell University, Ithaca, NY. Major: International Nutrition. Minor: Anthropology. Thesis: Maternal and Infant Nutritional Status During Exclusive Breast-feeding in the Lake Titicaca Region, South America.

1978 BA, Beloit College, Beloit, WI. Major: Environmental Biology. Senior Thesis: Breast Milk Consumption by Infants in Puriscal, Costa Rica.

**LICENSES**

2013-present Licensed Dietitian, State of Hawaii, USA.

1990-present Registered Dietitian and Nutritionist, License No. 723122, American Academy of Nutrition and Dietetics.

**PROFESSIONAL POSITIONS**

2002–present Member - Cancer Center, University of Hawaii

2000–present Professor (tenured), Department of Human Nutrition, Food and Animal Science, College of Tropical Agriculture and Human Resources, University of Hawaii. 25% Teaching, 75% Research in global nutrition.

1996- present Graduate Faculties- MS and PhD Nutritional Sciences, PhD Epidemiology, Public Health- University of Hawaii at Manoa.

2016- 2017 Interim Dean and Director of Research and Cooperative Extension, College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa.

2013- present Chair, MS and PhD Nutritional Sciences Graduate Program, University of Hawaii at Manoa.

2006- 2008 Director, Kaiser Permanente Center for Health Research, Hawaii, Honolulu, HI; and Associate Director, Kaiser Permanente Center for Health Research (Northwest Region).

2005–2006 Sabbatical, Visiting Professor. Food and Agriculture Organization, Rome, and meetings with other international nutrition groups in Europe and South Africa.

2002–2005 Department Chair. Department of Human Nutrition, Food and Animal Sciences, College of Tropical Agriculture and Human Resources. 70%Administration, 5% Teaching, 20% Research in human nutrition.

1998 Sabbatical (July-December), Cancer Research Center of Hawaii, Honolulu.

1995–1999 Associate Professor (tenured). Department of Food Science and Human Nutrition, College of Tropical Agriculture and Human Resources. 50% Teaching, 50% Research in area of social, cultural and international aspects of nutrition.

1990–1994 Assistant Professor, Department of Food Science and Human Nutrition, College of Tropical Agriculture and Human Resources. 50% Teaching, 50% Research in area of social, cultural and international aspects of nutrition.

1988–1989 Post-Doctoral Fellow, Maternal-Child Health Program, School of Public Health, University of Hawaii at Manoa, US Public Health Service, Maternal Child Health Block Grant. Research, teaching and technical assistance to the Pacific Basin on maternal-child health

1986–1987 Director of Sub-office and Project Manager, CARE-Dominican Republic, Barahona sub-office. Administered office of 27 employees and managed U.S. AID-funded operations research project to test strategies for appropriate use of food aid in health and development.

1983–1984 Nutritional Anthropologist, NSF grant, highland Ecuador. Ethnographic, survey and anthropometric work on factors affecting preschool child health status.

1980–1985 Graduate Assistant, Division of Nutritional Sciences, Cornell University, Ithaca, NY. Research and teaching on international maternal-child nutrition.

1981 Field Investigator. Puno, Peru. Maternal-infant nutritional status during exclusive breast-feeding. NSF, McKee L PI.

1979–1980 Research Technologist II, Department of Neonatal Biology, University of Washington, Seattle, WA. Managed laboratory, performed blood gas analyses and assisted in animal surgery regarding hyaline membrane disease.

1979 Phlebotomist and Medical Interviewer, Puget Sound Blood Center, Seattle, WA.

1978 Field Investigator, Instituto de Investigaciónes en Salud, San José, Costa Rica. Test-weighed infants for breast milk consumption in Puriscal, Costa Rica.

1976 Research Supervisor, U.S. Army Corps of Engineers, Rock Island, IL. Supervised microbiological water quality analysis for an environmental inventory.

**PROFESSIONAL SERVICE / HONORS / CONSULTING**

**Global**

2019-present Associate Editor, Nutrition Reviews Journal, International Life Sciences Institute, Washington DC.

2014-present Oceania Nutrition Leadership Program. Delegate from the Pacific Islands, Management Committee. Program Management and Sponsorship Committees

2016-2017 Center for Tropical and Subtropical Aquaculture, USDA, Board of Directors, Chair.

2015-2017 Co-Chair, Local Arrangements Committee, American Society for Nutrition, Bid for International Congress of Nutrition Meeting in Honolulu, 2025, sponsored by the International Union of Nutritional Sciences (IUNS). Met with ASN staff on several occasions, assisted with two meetings in Hawaii, and helped prepare letter of intent, initial bid, and final bid for the Society.

2015-2106 Elsevier Tropical Connections Fellowship Program, Mentor for Dr. Fenfang Li.

2014 Reviewer. National Initiative Brain and Cognition, Netherlands Organisation for Scientific Research. September.

2013 Nomination. High Level Panel of Experts of the Committee on World Food Security for the study on the role of sustainable fisheries and aquaculture for Food Security and Nutrition. March.

2011 Member, Pacific Health Officer’s Association (PIHOA), Education Committee Work Group, 50th Annual Meeting, Palau, Apr. 2-8.

2010 Member, Joint Food and Agriculture Organization /World Health Organization Consultation on the Risks and Benefits of Fish Consumption, Rome, Italy, 25-29 January.

2009 Consultant, World Health Organization. Review of existing Nutrition and Non Communicable Disease (NCD) Data and Development of National NCD and Nutrition Monitoring, Evaluation and Surveillance Framework in the Marshall Islands. July – September.

**United States**

6/20-present Health and Medicine Division, National Academies of Sciences, Engineering, and Medicine, Committee on Scanning for Evidence on the Nutrient Content of Human Milk: A Model for the Derivation of Age-Specific Nutrient Requirements. External reviewer.

5/20-present American Society of Nutrition representative to International Union of Nutritional Scientists - International Congress of Nutrition 2021 Nominating Committee.

5/20-present Division of Nutrition Physical Activity and Obesity (DNPAO), National Center for Chronic Disease Prevention and Health Promotion (NCCDPHP), Centers for Disease Control and Prevention (CDC), CDC-CNI project (# 41771000), Expert Advisor.

3/20-4/20 Arkansas Children’s Medical Center, Little Rock. Provide NIH style pre-review of each R01 or Primary Project applications of Junior Investigators.

3/19-present 2020-2025 US Dietary Guidelines Advisory Committee. FNS/CNPP, DHHS/USDA. Specialist/Committee Member.

2019 US Dept Agriculture, National Institute for Food and Agriculture, Partnership Award, University of Hawaii at Manoa. CHL program.

2018-2019 Expert panel on community-based childhood obesity prevention. Friedman School of Nutrition. Tufts University.

2018 Associate Professor External Reviewer for Promotion and Tenure, University of Virginia, School of Medicine, Dept Public Health.

2018 Scientific Advisory Committee Member, A National Research Agenda to Reduce Consumption of Sugar-Sweetened Beverages and Increase Safe Water Access and Consumption Among Zero- to Five-Year-Olds. Durham, NC: Healthy Eating Research, 2018. Available at: https://healthyeatingresearch.org.

2017 Assoc Prof. External Reviewer for Promotion and Tenure, Dept Nutrition Sciences, Purdue University.

2015-2017 Health Policy Issues Education Action Team, Healthy Food Systems, Healthy People, Extension and Experiment Station Committees on Organization and Policy (ECOP and ESCOP), APLU.

2014-2017 Western Region Nutrition Education and Obesity Prevention Center

of Excellence (WRNECE) Steering Committee, USDA/NIFA.

2015 Regional Nutrition Education Center of Excellence – West (RNECE-West), Grant Proposal Reviewer.

2014 Nominee. IOM/NRC Committee on Supporting the Parents of Young Children.

2014 Full Extension Specialist, External Reviewer for Promotion and Tenure, Dept. Nutritional Sciences, The University of Arizona.

2014 EFNEP Dietary Guidelines Expert Panel.

2014 Program Review Team, University of Arizona, Department of Nutritional Sciences. Feb. 18-20.

2012 Editorial Board, Handbook of Anthropometry; Physical Measures of Human Form in Health and Disease. VR Preedy, editor. Springer Publisher.

2012 Nominee, Food and Nutrition Board, Institute of Medicine, March.

2008 Reviewer, National Children’s Study, Ancillary Studies, Ad-hoc Reviewer.

2010-2015 Member, Imi Hale Native Hawaiian Cancer Network, Steering Committee, NIH/NCI.

2009 Reviewer- NIH Review Committee- NIH-Supported Centers for Population Health and Health Disparities. Study Section 2010/01 ZCA1 SRLB-3 (J1) B. 09/21/2009-09/23/2009.

2005 Reviewer, WIC Revised Food Package, Institute of Medicine Report.

2004 Review Member, USDA CSREES NRI Human Nutrition and Obesity Panel.

2004 Member, USDA CSREES Health /Obesity Prevention Task Force.

2000 Reviewer, American Dietetic Association Position: Promotion of Breastfeeding.

1999–2000 Member, American Society of Nutritional Sciences, Public Nutrition Research Interest Section, Steering Committee & Program Committee.

1998 Member, US Environmental Protection Agency National Center for Environmental Research and Quality Assurance, Fellowship Review Panel.

1996–2002 Member, Technical Committee, Factors Influencing the Consumption of Calcium- rich foods among adolescents, W-191, Western Regional Project, USDA, Secretary (1998), Chair(1999).

**Hawaii**

2016-2017 Agriculture Workforce Advisory Committee, Member.

2015-present Hawaii Public Health Institute (HIPHI), Board of Directors, Member.

2015- 2016 Member, Head Start Health Services Advisory Committee, HCAP.

2013 Member, Obesity Reimbursement Task Force.

2009- 2010 Member, Scientific Advisory Committee, Hawaii Initiative for Childhood Obesity Research and Education (HICORE)

2005–2006 Member, Data Safety Monitoring Board, Work, Weight and Well-Being–The 3W Program,” Vogt T (PI).

2003 Member, Provider Training for Changing Habits (PiTCH), Healthy Hawaii Initiative, Department of Health, Advisory Committee.

2001 Member, Fruit and Vegetable Campaign, American Cancer Society, Honolulu, HI.

2000–2001 Member, Statewide Nutrition Survey, Department Health, Department of Education, University of Hawaii.

2000 Member, Nutrition Coalition, State of Hawaii.

1998–1999 Member, Hawaii Dietetic Association, Nominating Committee, **Chair** (1999).

1996–1997 Member, Interagency Task Force for Food and Nutrition Assistance, State of Hawaii.

1995–1997 Member, March of Dimes, Chapter of the Pacific, Program Committee, Subcommittee on Needs Assessment, Folic Acid Committee.

1990 Member, Hauula Tropical Food Tree Project, Hawaii, Board of Directors.

1988–1991 Member, Nutritional Surveillance Advisory Committee, Department of Health, State of Hawaii.

1989 Member, Review Committee, MCH Technical Assistance and Professional Training for the Promotion of Breastfeeding, Department of Health.

1988–1991 Member, Pansur Nauli (Indonesia) Demonstration Project Task Force, Church of the Crossroads.

**University of Hawaii at Manoa**

2005–present Member, Nutrition Support Shared Resource Oversight Committee

2016 John A Burns School of Medicine PhD Programs, Program Review, committee member.

2015 Hearings Officer, Tenure and Promotion.

2013-2014 Top 15 in UH Grant Awards.

2013- 2016 Chair, Intercollege Nutrition PhD Program

2012-2013 Tenure and Promotion Review Committee #8.

2012 Nominee for 2013, Excellence in Teaching Award.

2006-2013 Member, Intercollege PhD Program Committee, Nutrition

2003–2012 Member, Executive Committee. Biomedical Sciences (Biostatistics- Epidemiology) Graduate Program

2009-2012 Leader, Nutrition and Metabolic Health, RMATRIX, John A Burns School of Medicine.

2008-2009 Member, Tenure and Promotion Review Committee #2

2005–2006 Member, Clinical Research Center, Advisory Committee

2002 Member, University Graduate Council.

2001–2002 Member, University Research Council.

2001 Member, Tenure and Promotion Review Committee.

2000 Member, Languages 2000 Task Force.

1998 Member, Tenure and Promotion Review Committee #9.

1998 Member, Foreign Language and Area Studies (FLAS) Fellowships Committee, Center for Southeast Asian Studies

1995–2001 Member, Study Abroad Advisory Council

1990–1999 Member, Executive Committee, Center for Southeast Asian Studies, School of Hawaiian Asian and Pacific Studies

1994 Member, Personnel Committee, Center for Southeast Asian Studies.

1992–1994 Chair, Travel Committee, Center for Southeast Asian Studies, School of Hawaiian, Asian and Pacific Studies

1991–1993 Member, Maluku Studies Committee, Center for Southeast Asian Studies, School of Hawaiian Asian and Pacific Studies

1988–1990 Member, Ad-hoc Committee on Child Survival

1988 Undergraduate Curriculum, Public Health

**College of Tropical Agriculture and Human Resources (CTAHR)**

2020 Office of Communications Advisory Council

2016-2017 Interim Dean, July 2016- October 2017

2016 Recipient, CTAHR Dean’s Award for Excellence in International Research. $1500, Spring Awards Banquet

2013-2014 Principal Investigator for 25% of College Grant Awards.

2014-2015 Member, CTAHR Dean’s Award for Research Excellence, Selection Committee.

2010 Recipient, CTAHR Dean’s Award for Research Excellence

2009 Judge, CTAHR Student Research Symposium

2008 Nominee, CTAHR Dean’s Award for Research Excellence

2006 Nominee, CTAHR Centennial Book

2004 Member, CTAHR Dean’s Award for Research Excellence, Selection Committee

2001 Member, CTAHR Conference Committee

2001 Member, Instruction Committee, CTAHR Faculty Senate

2001 Member, Integrated Hatch Review Committee

2001 Member, Search Committee, Assistant Director for Research

1999 Member, Departmental Personnel Committee, Agronomy and Soil Science

1999 Member, Associate Dean Search Committee

1998 Member, Dean’s Advisory Committee

1997 Member, Teaching Equivalencies

1996 Member, Graduate Assistant Policies Committee

1995–1997 Member, Faculty Senate (alternate)

1995 Member, Scholarship Committee

1990 Member, Curriculum Task Force

**Department of Human Nutrition, Food and Animal Sciences (HNFAS, formerly Food Science and Human Nutrition)**

2020- present Chair, Departmental Personnel Committee

2019- present Chair, Graduate Programs Committee

2018-2020 Alternate Member, Departmental Personnel Committee

2014-2016 Alternate Member, Departmental Personnel Committee

2011-2012 Alternate Member, Departmental Personnel Committee

2010-2011 Chair, Departmental Personnel Committee

2010-2011 Member, Chair’s Advisory Board

2009-2010 Member, Departmental Personnel Committee

2001–2002 Chair, Departmental Policies Committee

2001 Member, Departmental Advisory Committee

2000–2002 Member, Departmental Personnel Committee

1999 Member, Assistant Professor Search Committee

1995–1998 Member, Departmental Personnel Committee

1994–1996 Chair,Search Committee, Assistant Professor of Nutrition

1994–1995 Member, Curriculum Committee

1992–1994 Chair**,** Undergraduate Advising

1992–1994 Member, Dietetics Advisory Committee

1992–1994 Member, Departmental Personnel Committee

**RESEARCH PUBLISHED IN THE FOLLOWING PEER-REVIEWED JOURNALS**

*American Journal of Human Biology Ethnicity and Health*

*American Journal of Public Health European Journal of Clinical Nutrition*

*Annals of Human Biology Hawaii Journal of Medicine and Public Health*

*Applied Physiology, Nutrition &Metabolism (formerly Hawaii Medical Journal)*

*Archivos Latinoamericanos de Nutricion Human Biology*

*Asia Pacific Journal of Clinical Nutrition Journal of Tropical Pediatrics*

*Asia Pacific Journal of Public Health Journal of Adolescent Health*

*Birth: Issues in Perinatal Health Journal of the American College of Nutrition*

*BMC Cancer Journal of Epidemiology*

*Cakalele: The Research Journal of Maluku Journal of Food Composition & Analysis*

*Calcified Tissue International Journal of the Indonesian Medical Association*

*Cancer Causes and Control Journal of Nutrition*

*Cancer Epidemiology Journal of Nutrition Education and Behavior*

*Cancer, Epidemiology, Biomarkers & Prevention Micronesica*

*Cellular and Molecular Biology Nutrition and Cancer*

*Childhood Obesity Nutrition and Diabetes*

*Circulation Nutrition Reviews*

*Circ Cardiovasc Qual Outcomes Obesity*

*Clinical Medicine in Research Physiology & Behavior*

*Ecology of Food and Nutrition Public Health Nutr J*

*Journal of the American Medical Association Rev Med Hosp Nac Ni.*

*Open Network*

**REVIEW MANUSCRIPTS/BOOKS FOR THESE PEER-REVIEWED JOURNALS**

*American Journal of Clinical Nutrition Journal of the American College of Nutrition*

*American Journal of Epidemiology Journal of Nutrition*

*American Journal of Human Biology Journal of Nutrition Education and Behavior*

*American Journal of Physical Anthropology Journal of Pediatrics*

*Asia Pacific Journal of Clinical Nutrition Asia-Pacific Journal of Public Health*

*Journal of Rheumatology Cakalele: Research Journal of Maluku*

*Journal of Trace Elements in Ecology of Food and Nutrition*

*Ethnicity and Health Experimental Medicine*

*European Journal of Nutrition Fertility and Sterility*

*Hawaii J of Medicine and Public Health Int. J. Environ. Res. Public Health*

*J of Dietetics and Nutrition Nutrition Research*

*Nutrition Reviews*  *Nutrition Today*

*Obesity Reviews Pacific Health Dialog*

*Pediatrics International* *Pediatrics*

**REVIEW PROPOSALS FOR THESE AGENCIES**

**Global**

*Netherlands Organisation for Scientific Research, National Initiative on the Brain and Cognition.*

*Medical Research Council, United Kingdom, Research*

*Health Research Council of New Zealand/Ministry of Health, NZ- Pacific Health Research Partnership*

**United States**

*American Dietetic Association (ADA), Research Environmental Protection Agency (EPA), Fellowship National Children’s Study, Ancillary Studies, Research*

*National Institutes for Health (NIH), Supported Centers for Population Health and Health*

*Disparities, Research*

*National Geographic Society*

*United States Department of Agriculture (USDA), National Research Initiative Competitive*

*Grant Program*

*United States Department of Agriculture (USDA), Regional Nutrition Education Center of Excellence – West (RNECE-West) & Central (NC-NECE)*

**Local**

*Queen Emma Foundation, Honolulu, HI, Research*

**GRANTS, CONTRACTS AND AGREEMENTS**

**RESEARCH GRANTS**

2018-2023 **Children`s Healthy Living Center of Excellence (CHL Center)**

Novotny, Rachel Principal Investigator/Project Director.

$2,125,903

National Institute of Food and Agriculture/USDA.

Award Number 2018-69001-27551 (3/1/18-2/28/23)

2016- 2021 **Children’s Healthy Living Network (CHLN) in the US Affiliated Pacific.** Hatch/Multistate Project.

W1194, NIFA/USDA (12/5/16-9/30/21).

Chair and Hawaii Representative

2015-2017 **SNAP-ED and EFNEP Nutrition Education and Obesity Prevention Center of/ Excellence: Creating Healthy Local Places**

Stephenson L, PI, $1,000,000 University of Tennessee. USDA/NIFA.20155-67001-24289 1 million.

Novotny R: Co-Investigator/Co-Project Director ($113,944).USDA/NIFA. 2015-67001-24289.

2013-2015 **Monitoring Alliance for NCD Action in the Pacific (MANA Pasifika)** (Swinburn B, PI) University of Auckland, NZ, $399,806.International Relationship Fund: US-New Zealand/Health Research Council of New Zealand

**Novotny R:** Co-Investigator ($20,000). HRC-NZ #13/1003

2012-2017 **Multistate Project W2005; “Parenting, energy dynamics, and lifestyle determinants of childhood obesity: New directions in prevention”,** Hatch, NIFA, USDA.

**Novotny R (HAW02020).**

2011-2017 **Children’s Healthy Living Program for Remote Underserved Minority Populations in the Pacific Region** (CHL). USDA/AFRI/NIFA. A partnership among remote Pacific states and other jurisdictions of the US: Alaska, American Samoa, Commonwealth of the Northern Marianas, Guam, Federated States of Micronesia, Hawaii, Palau, and the Republic of the Marshall Islands whose purpose is to train a public health nutrition work force, conduct public health nutrition research and communicate nutrition and health related information to the public, and to build social/cultural, physical/built, and political/economic environments that will promote active play and intake of healthy food to prevent young child obesity.

**Novotny R, Principal Investigator/Director. $24,777,481 (Award no. 2011-68001-30335, CRIS no. 0224871)**.

2010-2013 **National Children’s Study. Improving Dietary Assessment in Pregnant Women and Children in the National Children’s Study** NIH/UNC. (Millar-Sauvage, PI; Anna Siega-Ruiz, Subcontract PI). $14.5 million. This study is a longitudinal cohort study that will investigate the impact of environmental factors on health and development of ~100,000 children across the United States. This subcontract is evaluating the feasibility, burden and data quality of using web-based diet assessment methods, in different ethnic groups.

**Novotny R,** Co-Investigator and Hawaii Site PI for Vanguard Project—**$300,697**. (Work Assignment #3, LOI 14, HHSN267200700025C)+ **$140,000**

2009-2010 **Development of a Cardiovascular Surveillance System in the CVRN NIH/NHLBI (CVRN Surveillance)**. (Sidney PI). $7.2 million. Oversee the development of the Virtual Data Warehouse at Kaiser Permanente Hawaii. **Novotny R, Hawaii Subcontract PI, $65,168**. **(RC2HL101666)**

2009-2014 **University of Guam/University of Hawaii Cancer Center Partnership NIH/NCI.** (Whippy/Vogel, Multi-PI) $12.6 million- 8 million Guam/4.6 million Hawaii; (Leon Guerrero R/**Novotny R**, Co-Leaders Full Project 1)- Development of a Breast Cancer Risk Model for the Pacific. **(BRISK, $777,165** direct costs Hawaii**);** (Miller/Murphy, Co-Leaders Pilot Project 1) **Novotny R,** Co-I- Development of Protocols for Studying Oral Precancerous Lesions and Other Health Risks among Betel Nut Users in Micronesia ($**115,389** direct costs),(Maskarinec/Leon Guerrero, Pilot Project), **Novotny R**, Co-I, Bioelectrical Impedance Breast Density ($100,000, direct cost). (**1U54XA143727-01)**.

2009-2010 **Feasibility Study on Accurately Predicting Central Obesity in the Multiethnic Cohort**. UH- Cancer Research Center of Hawaii Developmental Fund.

**Novotny, R** and Murphy, S, Co-PI, **$31,998. (NIH, NCI, P30 CA071789)**

2008-2009 **Development of Novel Skeletal Measures of Pubertal Development from** **DXA** (Data analysis of FAM3 study). UH Clinical Research Center Award #2008-04.

**Novotny R, PI**- 140 hours, estimated at **$28,000**.

2008–2013 **Pacific Kids DASH for Health.** USDA. This study aims to further develop the Pacific Tracker diet and physical activity assessment tool with behaviorally tailored intervention that support DASH dietary guidelines for multiethnic children in clinic visits within a health maintenance organization to prevent obesity among children in high risk populations. The study also aims to describe the social, economic, and cultural factors associated with body size, and composition of Asian and Pacific Islander children and their families.

**Novotny R, PI**—**$1,490,000. (Award 2008-55215-18821, 2/15/2008-2/15/2013, CRIS 0213100)**

2007–2010 **Cardiovascular Research Network (CVRN) in Community-Based Care.** NHLBI (Go). $13 million. This project is a research network across health systems engaged in cardiovascular research and surveillance within representative community-based health systems.

**Novotny R, Co-Investigator—$11,948 subcontract (U19 HL 091179)**

2007–2011 **Physical Activity in Women with Infants**. NIH (Albright). $1,970,341 Tests the efficacy of a tailored intervention to increase and maintain physical activity in a multiethnic population of young, healthy postpartum women in Hawaii.

**Novotny R, Co-Investigator—$83,173 (1R01CA115614 - 01A2)**

2007–2008 **HMORN CERT. Harvard Pilgrim** (Platt). The aim of this study is to examine the use of therapeutics health plans across the US.

**Novotny R, Site PI—$22,375 subcontract**

2007–2009 **Factors Associated with Betelnut Use on Guam.** NCI (Vogel). This proposal aims to describe betelnut ingestion and oral health practices among Chamorros and Micronesians in Guam to develop a future study examining oral lesions and cancer in Guam.

**Novotny R, Co-Project Leader—$32,148 (U56 CA96254) subcontract**

2007–2008 **Cancer Research Network Across Health Care Systems**. NCI (Wagner). 12 research centers based in integrated care health systems with electronic medical records that serve approximately 10 million members, including cross- system health research, three core projects, and multiple spinoff grants. **Novotny R, Co-Investigator—$3,554,771 (5 U19 CA079869-09)**

2007–2008 **Healthcare Needs of Hawaii Island.** Shipper’s Wharf Fund (Withy). This project counts medical provider services delivered to people from the zip codes of Hawaii Island to estimate needs for regional needs for different types of medical and mental health healthcare workers.

**Novotny R, Co-Investigator—$15,602**

2006–2010 **Breast Density Assessment by Dual Energy X-ray Absorptiometry in Women and Girls.** Synergistic Idea Award, Department of Defense Breast Cancer Research Program, Office of Congressionally Directed Medical Research Programs. Development and testing of a DXA method to evaluate breast tissue in adolescence and adulthood, as a possible very early indicator of breast cancer risk. **Maskarinec/Novotny, Co-PI’s—$588,518 (BC060615)**

2006–2007 **BMI and Ethnic Admixtures**. University of Hawaii (Albright). This research project is a data only study that looks at body mass index (BMI) and ethnic admixtures.

**Novotny R, Co-Investigator—$31,036 subcontract (Friends of the Cancer** **Center)**

2005–2010 **Imi Hale Native Hawaiian Cancer Awareness Research and Training Network.** (Chong). The goal of this project is to reduce cancer incidence and mortality among Native Hawaiians by promoting cancer awareness in Native Hawaiian Communities; and initiating cancer research, training, and control activities.

**Novotny R, Co-Investigator—$20,429 (1U01CA86105)**

2004–2009 **Work, Weight, and Wellness: The 3W Program**. NHLBI (Vogt). Program to increase physical activity, improve diet, improve decision making about risk- reducing behaviors, and reduce obesity of hotel employees in Hawaii.

**Novotny R, Co-Investigator—$5,536,000 (1 R01 HL79505)**

2004–2009 **Healthy Living in the Pacific Islands; Healthy Pacific Child Program**.

USDA/CSREES/Integrated National Research Initiative. Community based participatory development and testing of the Pacific Tracker dietary and physical assessment tool, the Healthy Foods Hawaii four phase community based intervention to improve healthy food consumption, and population-based study of nutrition and health in Hawaii and US affiliated Pacific Islands.

**Novotny R, PI—$1,000,000 (Award No. 2004-35215-14252, CRIS No. 0199107)**

2004–2007 **Nutritional and Genetic Determinants of Early Puberty**. Department of Defense. 2003 Breast Cancer Research Program. Third follow up of the Female Adolescent Maturation Cohort to examine dietary, activity and genetic determinants of maturation, body composition and bone in multi-ethnic adolescents.

**Le Marchand L/Novotny R, Co-PI—$848,218 (# BC032028)**

2003–2006 **Minority Institution/Cancer Center Partnership**, University of Guam/Cancer Research Center of Hawaii, NIH/NCI, Vogel C, PI, 09/01/03–08/31/08. **Novotny R, Co-investigator Pilot Project 1.** Betel Nut Chewing**. Pilot Project 2,** Evaluation of Risk Factors for Chronic Disease Among Adults on Guam**—$11,172,292 (1 U56 CA96254)**

2003–2004 **Soy Consumption and Hormonal Development in Young Girls: A Feasibility Study**. CRC, University of Hawaii at Manoa/Kapiolani Health. Maskarinec G, PI. **Novotny R, Co-PI—$10,000**.

2003–2004 **Samoan Women’s Health Assessment,** University of Hawaii at Manoa/Kapiolani Health.

**Novotny R, PI—$10,000 (CRC #02-16)**

2003–2006 **Healthy Living Hawaii, State of Hawaii**, Department of Health, Community Health Division.

**Novotny R, PI—$363,358, (Contract ASO Log No. 03-220)**

2002–2003 **Nutrition Assessments in Children and Young Adults Living in the Pacific Islands: A Capacity Building Approach**. Center for Disaster Management and Humanitarian Assistance, University of Hawaii and Centers for Disease Control, Kemmer T, PI.

**Novotny R, Co-PI—$70,000**

2001–2004 **Genetic Determinants of Adolescent Growth and Maturation—A Pilot Study**. Cancer Research Center of Hawaii Developmental Funds, UH.

**LeMarchand L, Novotny R, Co-Principal Investigators—$61,630**

2001–2003 **Healthy Living in the Pacific Islands**. USDA/ADAP. Hashimoto A, PI.

**Novotny R, Subcontract PI—Grants 99-38826-7854 ($15,030), 00-38826-9180 ($10,264), 01 ($30,000), 02 ($250,000) 03 ($250,000), 04 ($25,000), 05 ($25,000), 06 ($9,674)**

2001–2004 **Improving Bone Health in Adolescence through Targeted Behavioral** **Intervention. Integrated Hatch**, USDA.

**Novotny R, PI—$30,000**

2000–2004 **Initiative for Future Agriculture and Food Systems Program. Improving Bone Health in Adolescence Through Targeted Behavioral Intervention**. PI Consortium, Savaiano D, ($3,750,000)

**Novotny R, Subcontract PI—$640,718 ( USDA Grant No. 00-52102-9696)**

1999–2003 **National Research Initiative Competitive Grants Program**. **Japanese and** **White Female Adolescent Maturation.**

**Novotny R, PI—$220,000, (USDA Grant No. 9900700)**

1998–1999 **Impact of Lactation Support and use of a Lactation Device on Rates of Exclusive Breastfeeding.** University of Hawaii–Kapiolani Health, Clinical Research Center, NIH. Vogler J, PI.

**Novotny R, Co-I- $5,630**

1996–2002 **Factors Influencing the Intake of Calcium-Rich Foods Among Adolescents**. **Regional Project.** Stennis–MacIntyre, PI. USDA.

**Novotny R, Site PI—$62,000, (W–191)**

1996–1998 **Maternal Pelvic Size and Birth Outcome**. Hawaii State Agricultural Experiment Station, USDA.

**Novotny R, PI—$3,000**

1996–2000 **Nutrient Composition of Foods of Hawaii and the Pacific**. Hatch Grant, USDA.

**Novotny R, PI—$10,000 (includes funding from MOA International)**

1994–1996 **Pregnancy Nutrition Surveillance System (PNSS)**. State Department of Health, Hawaii.

**Novotny R, PI—$12,500**

1992–1996 **Sago, Diet and Nutrition Status of the People of Maluku, Indonesia**. Hatch Grant, USDA.

**Novotny R, PI—$3,000**

1992–1995 **Sago in Maluku.** Luce Foundation. Griffin PB, PI.

**Novotny R, Co-Inv—$130,000**

**INSTRUCTIONAL GRANTS**

2018- 2023 **Children's Healthy Living Dietetics Scholarship Program (CHLD)** Principal Investigator, Revilla, MKF. USDA/AFRI 2018-38413-28140. $200,000, Co- PI

2018-2022 **Western Region Public Health Training Center**. Principal Investigator, Taren, D.  HRSA Grant No. UB6HP31687.  July 1, 2018-June 30, 2022. Total Award $4,053,812. (1,013,453 per year) Novotny, R. Hawaii Site PI.

2016-2019 **Child Health Assessment for the Pacific (CHAP).** Child Health Assessment in the Pacific (CHAP) Summer Fellowship program will build Pacific regional capacity in early childhood nutrition and health assessment; create a network of individuals working to monitor and prevent early childhood obesity and health disparities; and evaluate opportunities to sustain training in early childhood nutrition and health assessment. Novotny R (PI) University of Hawaii. USDA/NIFA**. $274,780**. **GRANT 2016-67032-24989**

2014-2017 **Racial and Ethnic Approaches to Community Health (REACH).** U58DP005810-01.  09/30/14 - 09/29/17. CDC National Center for Chronic Disease Prevention and Health Promotion Pacific Center of Excellence in the Elimination of Disparities (CEED) USAPI Community Health Interventions Project (Palafox, PI). The goal of this project is to strengthen capacity to implement locally tailored tobacco and nutrition evidence- and practice-based, policy, systems and environmental improvements in priority populations experiencing disparities in chronic diseases and associated risk. Role: Curriculum Specialist. $3,000,000.

2014 **Translating Cultural Concepts of Food in the Pacific through an Introductory Nutrition Course.** Association of Public Land Grant Universities (Fialkowski, PI). $2,000, 2014.

2001 **Assessment of FSHN Curriculum**, CTAHR, University of Hawaii. (Iwaoka W, PI). $40,000.

2000–2001 **Development of training and research materials on food and nutrition in disaster management and humanitarian assistance**. Center of Excellence on Disaster Management, WHO, Honolulu, HI, $10,000.

1994 **International Agreements Fund**, UH. UH Field Studies for Fooi Ling Ng at Universitas Pattimura, Indonesia, $1,500.

1991 **Teaching Development Grant**, UH. Office of Faculty Development and Academic Support, University of Hawaii, Honolulu, HI, $500.

1991 **International Agreements Fund**, International Programs, University of Hawaii. Funds for Curriculum Development, Pattimura University, Indonesia, $500.

1990–1991 **International Agreements Fund**, International Programs, University of Hawaii. Funds to develop an agreement between UH and Trisakti University, Indonesia for joint research and faculty exchange, $2,000.

**TRAVEL GRANTS**

2020 University Research Council Travel Award, International Society of Behavioral Nutrition and Physical Activity, Auckland June 17-20, $1000.

2018 University Research Council Travel Award, International Society of Behavioral Nutrition and Physical Activity, Hong Kong, June 3-6, 2018, $1200.

2017 University Research Council Travel Award, International Congress of Nutrition/International Food Data Conference, Buenos Aires, Argentina, Oct 11-20, 2017, $1,000.

2016 University Research Council Travel Award, International Society of Behavioral Nutrition and Physical Activity in Cape Town, South Africa, June 8-11, 2016, $1,000.

2015 University Research Council, Travel Award, Experimental Biology, Boston, $1,000.

2014 University Research Council, Travel Award, Experimental Biology, San Diego, $1,000.

2013 University Research Council, Travel Award, Experimental Biology, Boston, $1,000.

2009 University Research Council, Travel Award, International Union of Nutritional Scientists, Bangkok, $1,500.

2006 University Research Council, Travel Award, Experimental Biology, San Francisco, CA.

2005 University Research Council, Travel Award, Experimental Biology, San Diego, CA, $1,400.

2004 University Research Council, Travel Award, Experimental Biology, Washington D.C.

2003 University Research Council, Travel Award, Experimental Biology, San Diego, CA, $1,100.

2002 University Research Council, Travel Award. Experimental Biology, New Orleans, LA, $1,350.

2001 University Research Council, Travel Award. Experimental Biology, Orlando, FL, $1,400.

2000 University Research Council, Travel Award. Experimental Biology, San Diego, CA, $1,750.

1999 University Research Council, Travel Award. Experimental Biology, Washington D.C., $1,335.

1997 University Research Council, Travel Award. International Union of Nutritional Scientists, Montreal, Quebec, Canada, $1,000.

1996 University Research Council, Travel Award. Experimental Biology, Washington D.C., $1,300.

1995 University Research Council, Travel Award. Experimental Biology, Atlanta, GA $1,739.

**OTHER GRANTS**

2007–2008 **Building Collaboration to Improve Health of Hawaii's Diverse Communities.**

Kaiser Permanente Center for Health Research, Hawaii.

Funding: Black Fund, Robert Emens of the Hawaii Community Foundation

**Novotny R, PI––** No. 20070212

**$17,380**

**PROFESSIONAL ASSOCIATIONS**

2014- present International Society for Behavior, Nutrition and Physical Activity

2012- present Society for Nutrition Education and Behavior

1985–present American Public Health Association

1988–present Association of Nutrition and Dietetics (formerly American Dietetic Association)- General, Research & Pediatric Practice Group

1988–present Hawaii Association of Nutrition and Dietetics (formerly Hawaii Dietetics Association)

1988–present Hawaii Public Health Association

1990–present American Society of Nutrition (formerly American Society of Nutritional

Sciences)—General & Society for International Nutrition Research

2005 American Society for Bone and Mineral Research

2007–2008 Academy Health

2007 The North American Association for the Study of Obesity (NAASO), The Obesity Society

1988–1995 Hawaii Nutrition Council

**PUBLICATIONS**

**PEER-REVIEWED JOURNAL ARTICLES (156)**

NIH My Bibliography at <https://www.ncbi.nlm.nih.gov/sites/myncbi/rachel.novotny.1/bibliography/54589964/public/?sort=date&direction=ascending>

2020 Rachael Leon Guerrero, L. Robert Barber, Tanisha Aflague, Yvette

Paulino, Margaret Hattori-Uchima, Mark Acosta, Lynne Wilkens, **Rachel Novotny**. Prevalence and Predictors of Overweight and Obesity Among Young

Children in the Children’s Healthy Living Study on Guam. Nutrients**2020**, *12*, 2527; doi:10.3390/nu12092527. CHL Project.

2020 Badowski G, Simsiman B, Bordallo R,Green M, Shvetsov YB, Wilkens LR, **Novotny R**, Leon Guerrero RT. CUMULATIVE INCIDENCE RATES OF BREAST CANCER BY AGE FOR FILIPINOS AND CHAMORROS IN GUAM HAWAI‘I JOURNAL OF HEALTH & SOCIAL WELFARE, JUNE 2020, VOL 79, NO 6, SUPPLEMENT 2, pages 40-44. BRISK Project.

2020 Greenberg JA, Luick B, Alfred JM, Barber LR, Bersamin A, Coleman P, Esquivel M, Fleming T, Leon Guerrero RT, Hollyer J, Johnson EJ, **Novotny R**, Remengesau SD, Yamanaka Y. The Affordability of a Thrifty Food Plan-based Market Basket in the United States-affiliated Pacific Region. Hawaii Journal of Health and Social Welfare JULY 2020, VOL 79, NO 7;17-23. CHL Project.

2020 Aflague TA, Leon Guerrero RT, Delormier T, **Novotny R**, Wilkens LR, Boushey CJ. Examining the Influence of Cultural Immersion on Willingness to Try Fruits and Vegetables Among Children in Guam: the Traditions pilot study. Nutrients. 2020, 12, 18; doi:10.3390/nu12010018. CHL Project.

2019-2020 Fialkowski MK, Calabrese A, Binna JC, Lin M-F G, **Novotny** R, Stewart M. Student Perception of a Placed-Based Online Introductory Nutrition Course for the Pacific. NACTA Journal, 50-57.

2019 Butel J, Braun KL, Nigg CR, Davis J, Boushey C, Leon Guerrero R, Bersamin A, Coleman P, Fleming T, **Novotny R**. Implementation Strategies and Barriers to Native Hawaiian and Other Pacific Islanders Community Interventions: A Cross-Case Study of the Children’s Healthy Living Program. Asian American Journal of Psychology. Vol. 10, No. 3, 282–2911948-1985/19, <http://dx.doi.org/10.1037/aap0000135>. CHL Project.

2019 Butel J, Braun KL, Nigg CR, Leon Guerrero R, Fleming T, Bersamin A, Coleman P, **Novotny R**. Estimating intervention dose of the multilevel multisite children’s healthy living program intervention. TBM 2019:1–9, doi: 10.1093/tbm/ibz073. CHL Project

2018 Gittelsohn J, **Novotny R**, Trude ACB, Butel J and Mikkelsen BE. "Challenges and lessons learned from multi-level multi-component interventions to prevent and reduce child obesity," Int J Environ Res Public Health. 2018 Dec 24;16(1). pii: E30. doi: 10.3390/ijerph16010030. CHL Project

2018 **Novotny R**, Davis J, Butel J, Boushey CJ, Fialkowski MK, Nigg DR, Braun KL, Leon Guerrero RL, Coleman P, Bersamin A, Areta A, Barber LR, Belyeu-Camacho T, Greenberg J, Fleming T, Delacruz-Talbert E, Yamanaka A, Wilkens LR. Effect of the Children’s Healthy Living program on Young Child overweight, obesity and acanthosis nigricans in the US affiliated Pacific region: a randomized controlled trial. JAMA Network Open. 2018;1(6):E183896. DOI:10.1001/JAMAnetworkopen.2018.3896 CHL project.

2018 Endrizal C, Fialkowski MK, Davis J, Yuan S, **Novotny R**, Delormier T, Rodriguez B. Dietetics Practice in the Unique, Culturally Diverse Pacific Island Region. Hawai‘i Journal of Medicine & Public Health. June. Volume 77, No. 6, 135-143.

2018 Walsh M, John D, Peritore N, Morris A, Bird C, Ceraso M, Eichberger S, **Novotny R**, Stephenson L, Stluka S, Riportella R. Health in All Policies: Working Across Sectors in Cooperative Extension to Promote Health for All. Journal of Human Sciences and Extension Volume 6, Number 2, 2018; pgs 37-56.

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2003 Calcium helps girls keep the weight off. *Health on the Net Foundation* Apr 14.

2003 Dairy consumption helps teen girls lose weight. *Associated Press*, Sept 23.

2003 Milk products may help girls lose weight. *Canadian Press and Canada am TV*, Sept 24.

2003 The new yogurt diet. *Men’s Health*, Nutrition Bulletin Section, (menshealth.com) Jul/Aug.

2003 Calcium key to adolescent weight. *Malamalama* 2:Jul-Oct.

2003 Alton H. UH study finds calcium helps girls stay trimmer. *Honolulu Star-Bulletin* Wednesday, May 7.

2003 Ka Leo Staff. Girls who’ve got milk thinner, says UH study. *Ka Leo O Hawaii* Issue 142, April 28.

2003 Roan S. More calcium may help teens control weight. *Los Angeles Times* April 21.

2003 Reinberg S. Study links high calcium, lower fat. *The Honolulu Advertiser*. April 18.

2003 Warner J. Calcium for weight loss? Girls who get more calcium have less body fat. [Http://my.webmd.com/content/Article/63/72079.htm](http://my.webmd.com/content/Article/63/72079.htm), April 14.

2003 Researchers find lazy way to lose weight. BBC News <http://news.bbc.co.uk/go/pr/fr/-2/hi/health/2935425.stm>, April 14.

2003 Bjerklie D. The milk and cheese diet. *Time*, April 21.

2003 Titchenal A, Dobbs J. Health options: Scientist seeks food truths. *Honolulu Star- Bulletin*, February 5.

1997 Farrington High students get a nutritious lesson: Eat your veggies. *Malamalama* 21(2):16-17.

1995 Ochs R, Creamer B. Allergic to milk, cheese? Guess again: Study show small amount may be OK. *Honolulu Advertiser*, July 6.

1995 Talk serves up foods and culture of Indonesia. *Honolulu Star-Bulletin,* March 8.

1991 Oliver C. Hawaii above average in breastfeeding rate. *Honolulu Advertiser* June 10.

**CONFERENCES/SYMPOSIA/WORKSHOPS ORGANIZED**

2019 **Chair**. Systems approaches to prevent and reduce obesity through multilevel multicomponent (MLMC) interventions across the globe. ISBNPA. Prague, Czech Republic. June.

2016 Co-Chair. Bid for International Congress of Nutrition meeting to be held in Honolulu.

2016 **Chair.** Multilevel Intervention Programs. International Society for Behavior, Nutrition and Physical Activity, Cape Town, South Africa, June.

2009 **Chair**. The Center for Health Research Cancer Summit. “Ethnicity, Nutrition and Cancer”, Honolulu, November.

2007 **Co-Chair,** 13th Annual HMO Research Network Conference, “Building a National Research Model: the Future of HMO-Based Research”, Health Disparities session, March.

2006 **Organizing Committee and Session Co-Chair**, 30th National Nutrient Databank Conference: The Role of Food Composition in Improving Dietetic Practice. Honolulu, September 18-20, 2006.

2006 **Chair,** Healthy Living in the Pacific Islands. Sixth Annual Meeting, Saipan, June.

2005 **Chair,** Healthy Living in the Pacific Islands. Fifth Annual Meeting, Honolulu, HI, October**.**

2004 **Chair,** Healthy Living in the Pacific Islands. Fourth Annual Meeting, Guam, June.

2003 **Chair,** Healthy Living in the Pacific Islands. Third Annual Meeting, Majuro, Marshall Islands, July.

2002 **Chair,** Healthy Living in the Pacific Islands. Second Annual Meeting, Honolulu, HI, August.

2002 **Chair,** Diet and Bone Health, Mini-symposium, ASNS/Experimental Biology, New Orleans, LA, April.

2002 Opportunities and Expectations of the College, CTAHR, University of Hawaii. March 13, 2002.

2001 **Chair,** Healthy Living in the Pacific Islands Initiative, Agricultural Development of the American Pacific Project, Honolulu, HI, October 1-3.

2000 **Chair,** W-191, Factors Influencing Consumption of Calcium-Rich Foods Among Adolescents, USDA Regional Project Technical Committee Meeting, Coeur D’Alene, ID.

2000 **Chair,** Dietary and Food Intake Assessment Mini-symposium, American Society of Nutritional Scientists, Experimental Biology 2000, San Diego, CA.

1997 **Chair,** W-191, Factors Influencing Consumption of Calcium-Rich Foods Among Adolescents, USDA Regional Project Technical Committee Meeting, Honolulu, HI.

**ORAL PRESENTATIONS**

2020 Novotny R. Multi-level Influences on Child Overweight/Obesity- the Children’s Healthy Living (CHL) program. UH Cancer Center. Sept 14. **Invited**

2019 Novotny R. Children’s Healthy Living Center of Excellence, Global Child Obesity Planning. WHO Geneva. **Invited**

2019 Novotny R. Children’s Healthy Living Program. ISBNPA, Prague.

2019 Novotny R. Children’s Healthy Living Center of Excellence, SNEB, Orlando.

2018 Novotny R. Re-envisioning and Regenerating Agriculture Education through P-20 Partnerships. Sponsored by the P20 Agriculture Education Workgroup. National Sustainable Agriculture Education Conference, UH West Oahu, July 27, 2018. **Oral.**

2018 Novotny R. The Children’s Healthy Living Program. Nutrition Dept Seminar Series, University of Arizona, Tucson. Feb 14. **Invited.**

2018 Novotny R. Cancer Risk and Prevention in the US Affiliated Pacific. Cancer Center Seminar Series, University of Arizona, Tucson. Feb 14. **Invited.**

2016 Fialkowski MK, Leon Guerrero R, Bersamin A, Deenik J, Fleming T, Coleman P, **Novotny R.** Unanticipated Workforce Development in the Children's Healthy Living Program. He Huliau Conference, Honolulu, HI, October 13 – 14, 2016.

2016 **Novotny R**. The Children’s Healthy Living Multilevel Intervention Program. Texas Tech University, March 24, 2016, Lubbock Texas. **Invited.**

2015 **Novotny R**. Multilevel Multicomponent Intervention Strategies for Childhood Obesity Prevention. Obesity Plenary Strategies to Prevent Childhood Obesity at The Nutrition Society of Australia and New Zealand. December 2-3 2015, Wellington NZ. **Invited**.

2015 **Novotny R**., Li F., Areta A., Deenik J., Kim J., Leon-Guerrero R. Race. Obesity and acanthosis nigricans in US affiliated Pacific Islands, Children's Healthy Living Program (CHL). American Public Health Association. October 31-November 4, 2015 Chicago, IL.

2015 **Novotny** R, Nigg CR, Braun K, Areta A, Bersamin A, Kim JH, Leon Guerrerro R. Measurement and Evaluation in the Children’s Healthy Living Program Multilevel Multi Component Intervention. ISBNPA, Edinburgh, June.

2015 **Novotny R**. “Prevalence of Overweight and Obesity in the Children’s Healthy Living Program”. Endocrine Society, Visiting Professor Program in Obesity. May 28-29. **Invited**.

2015 **Novotny R**. “Children’s Healthy Living Program: Prevalence of Obesity Among Children in the US Affiliated Pacific”, Visiting Professor Program on Obesity. Session B: Clinical aspects of the obesity epidemics in Hawaii and Pacific Islands 5, Endocrine Society, JABSOM, University of Hawaii. May 28.

2014 **Novotny R**, Fialkowski MK, Esquivel M\*, Li F, Wilkens LR. Building a Child BMI Monitoring System for the US Affiliated Pacific Region: A Model from the Hawaii Children’s Healthy Living Program. International Pacific Health Conference, Auckland, New Zealand. November 3 – 5, 2014.

2014 **Novotny R**, Fialkowski MK, Leslie J, Delormier T, Ettienne R. Children’s Healthy Living Project: Building a Pacific Way to Wellness, Hawaii Dietetic Association, Honolulu.

2013 **Novotny R**. Children’s Healthy Living Program. Society for Nutrition Education and Behavior Annual Meeting. Portland, OR, August 12. (**Invited).**

2014 Boushey C, Yonemori K, Au D,**Novotny R**, Fialkowski MK, Wilkens L, Nigg C, Leon Guerrero R, Bersamin A, Niles K, Areta A, Kim J, Johnson K. Children’s Healthy Living Program for remote underserved minority populations in the Pacific region: challenges and design of dietary assessment methods among young children 2-8 years old. National Nutrient Databank Conference. Portland, OR, May 14-17, 2014.

2013 Fialkowski MK, Areta AR, Belyeu-Camacho T, Bersamin A, Rojas G, Castro R, DeBaryshe B, Leon-Guerrero R, Luick B, Vargo A, Nigg C, **Novotny R**. Using Community Readiness Assessment to Inform Environmental Intervention Development in the Children’s Healthy Living (CHL) Program in Remote Underserved Minority Populations of the Pacific. Experimental Biology. Boston, MA, April 20-24, 2013.

2012 Leslie JH, DunnMA, Boyd, Deenik JL, Fialkowski MK, Fiame R, Greenberg J, Hattori-Uchima M, Johnson R, Kim J, Leon-Guerrero R, Loick B, Nigg C, Paulino Y, Stokes A, Takahashi R, Vargo D, Wilkens L, York A, **Novotny R**. Training an Indigenous Workforce to Prevent Childhood Obesity: a component of the Children’s Healthy Living Program for Remote Underserved Minority Populations in the Pacific Regio (CHL). Pacific Global Health Conference. Honolulu, HI, October 8-10, 2012.

2012 **Novotny R**. Healthy Hawaii Initiative’s Health and Physical Education Resource Teachers’ Training Session. Aug. 20. **(Invited).**

2012 Fialkowski MK, Areta AR, Belyeu-Camacho T, Bersamin A, Rojas G, Castro R, DeBaryshe B, Leon-Guerrero R, Luick B, Vargo A, Nigg C, **Novotny R**. The development of the Children’s Healthy Living for Remote Underserved Populations in the Pacific Region Program (CHL) community-based approach to identify and prioritize possible environmental interventions to prevent young child obesity. Pacific Global Health Conference. Honolulu, HI, October 8-10, 2012.

2012 **Novotny R.** Food, Nutrition, Physical Activity & Obesity related data for NCD prevention: & the Children’s Healthy Living (CHL) Program. Pacific Island Health Officers Association, Technical Work Group Meeting. Honolulu, May 24. **(Invited).**

2012 **Novotny R**, Oshiro CES, Wilkens. Ethnic Disparity in Child Overweight and Obesity in Hawaii. FASEB, San Diego, April.

2012 **Novotny R** and Nigg C. The CHL Program – Capacity-Building and

Environmental Change to Prevent Childhood Obesity in the Pacific Region. UH Public Health Colloquium. March 8 **(Invited).**

2011 **Novotny R,** Deenik J. Children’s Healthy Living Program. Pacific Basin Medical Association and Chuuk Medical Association. Nov. 2 **(Invited).**

2011 **Novotny R**, McGlone K, Nigg C. PacificTracker2 - Expert System (PacTrac2-ES) behavioral assessment and intervention tool, 9th International Food Data Conference “Biodiversity and Sustainable Diets”, Norwich, England, UK, Sept.

2011 Albright, Steffen, Nigg, **Novotny**, Wilkens, Saiki, Yamada, Hedemark, Dunn, and Brown. Hawaii’s Na Mikimiki Project: Increasing Postpartum Physical Activity in Ethnic Minority Women; Changes in Self-efficacy, Barriers, and Postpartum Depression Predict Increases in Physical Activity over Six Months. International Society of Behavioral Nutrition and Physical Activity – Melbourne Australia, June 15-18.

2010 **Novotny, R.** Proposed project by Land Grant Colleges to address Childhood Obesity. 49th Meeting of the Pacific Island Health Officers Association. Honolulu, HI, September **(Invited)**

2010 **Novotny R** et al. Breast Density among Multiethnic Adolescent Girls. HMORN 2010. Austin TX.

2009 **Novotny R.** Nutrition and Body Composition of Children in Hawaii. Hawaii Initiative for Childhood Obesity Research and Education (HICORE), Pediatric Obesity Seminar Series, Kapi'olani Medical Center for Women & Children, American Academy of Pediatrics, Hawaii Chapter, Inc., RTRN-RCMI Translational Research Network, the Hawaii State Department of Health - Healthy Hawaii Initiative, and UH-JABSOM Department of Pediatrics. Honolulu. December **(Invited)**

2009 **Novotny R.** Workshop Introduction & The Female Adolescent Maturation Study. The Center for Health Research Cancer Summit. “ Ethnicity, Nutrition and Cancer”, Honolulu, November **(Invited).**

2009 **Novotny R**, Vijayadeva V, Grove J, Daida YG, LeMarchand L. Lower birth weight, greater bi-iliac breadth and Asian ancestry are associated with greater central obesity in adolescent girls in Hawaii. 19th International Congress of Nutrition, Oct. 4-9, Bangkok. Annals of Nutrition & Metabolism 55(Supp l1):99.

2009 Vijayadeva V, LeMarchand L, Grove J, Daida Y, **Novotny R**. Association of Leptin and Leptin Receptor Gene Polymorphisms with Plasma Leptin in Multiethnic Adolescent Girls in Hawaii, CTAHR Student Research Symposium, University of Hawaii at Manoa, April 4.

2008 **Novotny, R**. “Fruit Intake for Healthy Body Size in the Pacific Region”. Tropical Fruits in Human Nutrition & Health Conference, Couran Cove, Australia, Nov. 8**(Invited).**

2008 **Novotny, R.** “Enhancing Bone Mass of Multiethnic Adolescents” Pediatrics Island style: the adolescent visit, Honolulu, HI October 9 **(Invited).**

2008 Osborne DL, Weaver C, McCabe LD, McCabe GM, **Novotny R**, Boushey C, Savaiano DA. “Assessing the relationship between skin pigmentation and measures of bone strength in adolescent females living in Hawaii.” 77th Annual Meeting of the American Association of Physical Anthropologists, Columbus, OH, April 11.

2008 **Novotny R**, Williams A, Vinoya AC, Vogt T. “US immigration is associated with obesity among Asian-Pacific hotel workers in Hawaii.” 14th Annual HMO Research Network Conference, Minneapolis, MN, April 13-16.

2008 **Novotny R**, Vijayadeva V, Grove J, Daida Y, LeMarchand L. “Pubic hair pubertal stage is more strongly associated with female adolescent bone mass than breast pubertal stage in an Asian-White population in Hawaii.” Experimental Biology Annual Meeting, San Diego, CA, April 8.

2008 Oshiro C*,* **Novotny R**, Williams AE, Vinoya AC, Abright C, Vogt TM. “Body mass index is inversely associated with fruit intake and fruit juice availability in the hotel environment.” Experimental Biology Annual Meeting, San Diego, CA, April 5-9.

2008 Daida Y, **Novotny R**, Vijayadeva V, Grove J, LeMarchand L. “Influence of lean and fat mass on bone mineral content in Asian and White adolescent girls.” Experimental Biology Annual Meeting, San Diego, CA, April 5-9.

2008 Vijayadeva V*,* Grove J, **Novotny R**, LeMarchand L, Daida Y. “Adolescent girls with higher trunk fat and trunk-to-peripheral skinfold ratio reach menarche early.” Experimental Biology Annual Meeting, San Diego, CA, April.

2008 **Novotny R**. “BioNutrition and The Center for Health Research.” Registered Dieticians Kuleana Meeting, Kaiser Permanente Kapolei Clinic, Kapolei, HI, February 27.

2008 **Novotny R**. “Pacific Kids DASH for Health (PacDASH).” Kaiser Permanente Pediatric Grand Rounds, Honolulu, HI, February 12.

2007 **Novotny R**. “Factors influencing female adolescent body size, shape and composition.” Kaiser Permanente Grand Rounds, Honolulu, HI, November 28.

2007 **Novotny R**. “TCHR Bionutrition Research.” TCHR Professional Board Meeting, Portland, OR, November 12.

2007 **Novotny R**. “Bone of Asian Pubertal Girls in Hawaii: The Female Adolescent Maturation (FAM) Study.” American Society for Bone and Mineral Research (ASBMR) 29th Annual Meeting, Honolulu, HI, September 16.

2007 **Novotny R**. “Mixed ethnicity and health.” NHLBI, NIH, Rockville, MD, June 25. **(Invited).**

2007 **Novotny R**, Coleman P, Tenorio L, Davison N, Camacho T, Ramirez V. “Acanthosis nigricans among Pacific Islander children in the Commonwealth of the Northern Marianas.” Experimental Biology Annual Meeting, Washington DC, April.

2006 Blitz CL, Murphy SP, **Novotny R**, Jung YO, Au DM, Davison N. “The Pacific Tracker (PACTRAC): Development of a dietary assessment instrument for the Pacific. National Nutrient Databank Conference, Honolulu, HI, September.

2006 **Novotny R**. “Health emergencies in large populations.” (**Invited**) Food & Nutrition, Honolulu, HI, July 20.

2006 **Novotny R**. “Evolution of the nutritional assessment of populations research program toward a vision for the Center for Health Research Hawaii.” (**Invited**) Hawaii and Oregon, January/February.

2005 **Novotny R**. “Body composition of multiethnic youth.” (**Invited**) Food and Nutrition Division Seminar, Food and Agriculture Organization, Rome, Italy, August.

2005 Binkley N, **Novotny R**, Krueger D, Kawahara-BaccusT, Daida YG, Gemar D, Lensmeyer G, Drezner MK. “Inadequate Viatmin D status despite abundant sun exposure.” American Society of Bone Mineral Research, Nashville, TN, October.

2005 **Novotny R**. “Dairy, calcium and body size: Emerging science for adolescents.” (**Invited**) Nutrition Forecast Meeting, Coronado, CA, May.

2005 Murphy S, **Novotny R**, Blitz C, Au D. “Expanding the Cancer Research Center of Hawaii’s Food Composition Table for use in other Pacific Island.” Oceaniafoods, New Zealand, April.

2005 **Novotny R**, et al. “Asian, Hispanic and White adolescent body size, composition and fat distribution.” Experimental Biology, San Diego, CA, April.

2004 **Novotny R**. “Obesity/health issues. The tapestry of our cultures.” (**Invited**) 2004 Western Regional Joint Summer Meetings, Guam, June 21.

2004 Nabokov V*,* **Novotny R**. “Body composition among Samoans in Hawaii.” CTAHR Student Research Symposium, April 2-3.

2003 **Novotny R**. “Dairy is a girl’s best friend. Obesity: Weighing the options.” (**Invited**) National Dairy Farmers of Canada, Montreal and Toronto, April 23/25.

2003 **Novotny R**. “Nutrition and maturation of Hawaii’s teens.” (**Invited**) 2003 HDA Spring Conference, Hawaii’s Nutrition Gift to the World, April 4.

2003 **Novotny R**. “Female adolescent maturation.” (**Invited**) Kaiser Permanente Clinical Research Center, Honolulu, HI, March.

2002 **Novotny R**, Daida YG, Vogt TM, Grove JS, Acharya S. “Earlier menarche is associated with formula feeding during infancy.” Eighth RCMI International Symposium on Health Disparities 2002, Honolulu, HI, December.

2002 **Novotny R**. “Female Adolescent Maturation-II Study and improving bone health in adolescence through targeted behavioral intervention.” (**Invited**) Clinical Research Center External Advisory Committee Meeting, Honolulu, HI, May.

2002 **Novotny R**, Daida YG, Vogt TM, Grove JS, Paperny D, Acharya S. “Asians have earlier menarche but lower dietary calcium intake than whites and no difference in calcaneal broadband ultrasound attenuation.” ASNS/Experimental Biology, New Orleans, LA, April.

2002 **Novotny R**. “Healthy Living in the Pacific Islands (HLPI) Initiative.” (**Invited**) WIC Annual Meeting, Honolulu, HI, May.

2002 **Novotny R**. “Weight and pregnancy.” (**Invited**) WIC Nutritionists Training, Honolulu, HI, March.

2001 **Novotny R**. “The nutrition transition in the Pacific.” (**Invited**) Center for Pacific Island Studies, UH, June.

2001 **Novotny R**. “Assessment of bone mass and density for prevention of osteoporosis.” (**Invited**) CTAHR: Role in Economic Revitalization, Nutrition and Environmental Sustainability and Education Using Innovative Technology, September.

2001 **Novotny R**. “Tips for successful grant writing.” (**Invited**) CTAHR Pre-Award Seminar, UH, May.

2001 Acharya S, **Novotny R**. “Maternal fat loss during pregnancy compensates infant birth size.” CTAHR Student Research Symposium, UH, Honolulu, HI, April (Second Prize- Oral Presentation, MS student).

2001 **Novotny R**, Goh Y. “Pubertal stage and body fat are independently associated with bone mass among Asian and Caucasian adolescents in Hawaii.” Experimental Biology 2001, Orlando, FL, April.

2000 Meng L, Maskarinec G, **Novotny R**. “Dietary patterns and mammographic densities in a multi-ethnic population.” AACR, 91st Annual Meeting, San Francisco, CA, April.

2000 **Novotny R**. “Food and nutrition in: Health emergencies in large populations.” (**Invited**) Center of Excellence in Disaster Management and Humanitarian Assistance, World Health Organization Collaborating Center, East-West Center, Honolulu, HI, July.

1999 **Novotny R**. “Food and nutrition in: Health emergencies in large populations.” (**Invited**) Humanitarian Assistance, World Health Organization Collaborating Center, East-West Center, Honolulu, HI, July.

1999 **Novotny R**. “Intercultural communications: Food and culture in South and Southeast Asia.” (**Invited**) Maui Plant Protection and Quarantine, Kahului, HI, June.

1998 **Novotny R**. “Understanding BMI.” (**Invited**) WIC Annual State Conference, Honolulu, HI, September.

1998 Edwards CL, **Novotny R**, Claybaugh J, Weems C. “Serum prealbumin decreases during pregnancy.” The American Dietetic Association, Kansas City, MO, October.

1998 **Novotny R**. “A new approach to nutritional assessment in population-based studies.” (**Invited**) Cancer Research Center of Hawaii, Honolulu, HI, June.

1997 **Novotny R**, Davis J, Ross P, Biernacke I. “Maternal pelvic size, as measured by DXA, predicts infant birthweight.” International Union of Nutritional Scientists, Montreal, Quebec, Canada, August.

1997 **Novotny R**. “Factors Influencing the Consumption of Calcium-Rich Food Among Adolescents.” (**Invited**) The Hawaii Dietetic Association, Annual Spring Conference, Honolulu, May.

1996 **Novotny R**. “When to use focus groups?” (**Invited**) Pacific MCH Coordinator’s Conference, School of Public Health, University of Hawaii, Honolulu, December.

1996 Biernacke I, **Novotny R**, Davis J. “The precision of pelvic measurements using dual energy xray absorptiometry.” CTAHR Student Symposium, University of Hawaii, Honolulu, HI, April. (Second Prize - undergraduate student).

1995 Ng FL, **Novotny R**. “Validity of the 24-hour dietary recall in dietary assessment in Eastern Indonesia.” CTAHR Student Research Symposium, University of Hawaii, Honolulu, HI, April. (First Prize - Oral Presentation of Master’s student).

1995 **Novotny R**. “Food and culture of Indonesia.” (**Invited**) Hawaii Nutrition Council, Honolulu, HI, March.

1994 **Novotny R**. “Dietary Diversity in Western Seram.” Third Annual Maluku Conference, Ambon, Indonesia, July.

1992 Kieffer E, **Novotny R**, Mor J, Thiele M. “Factors influencing infant feeding method choice in a multiethnic population.” American Public Health Association, New Orleans, LA, November.

1992 **Novotny R**, Kieffer E, Mor J, Thiele M, Nikaido M. “Infant feeding method choice in a WIC population in Hawaii.” Implications for Breastfeeding Promotion Programs, American Public Health Association, November.

1992 **Novotny R**. “Who is breastfeeding in Hawaii?” (**Invited**) WIC State Conference, Honolulu, HI, October.

1992 **Novotny R**. “Promoting nutrition in developing countries.” (**Invited**) First Thursday Forum, Church of the Crossroads, Honolulu, HI, March.

1991 Kieffer EC, **Novotny RN**, Mor J, Thiele M. “Breastfeeding in Hawaii and the Year 2000 Objectives.” American Public Health Association, November.

1991 **Novotny R**, Kieffer EC, Mor J, Thiele M. “Infant feeding practices of Filipinos born in the U.S. and in the Philippines and living in Hawaii.” 6th Asian Congress of Nutrition, Kuala Lumpur, Malaysia, September.

1991 **Novotny R**, Kieffer EC, Mor J, Thiele M. “Factors related to breastfeeding initiation and duration in Hawaii.” Pacific Science Congress, Honolulu, HI, May.

1990 **Novotny R**. “Nutritional status of reproductive women: Emphasis on anthropometric measurements.” (**Invited**) Trisakti University, Jakarta, Indonesia, June.

1989 Baruffi G*,* Alexander G, **Novotny R**. “Causes of infant mortality in a multiethnic population.” National Perinatal Association, Washington, D.C., November.

1989 **Novotny R**. “Rate of growth in length of Bangladeshi infants” (**Invited**) 14th International Congress of Nutrition, Seoul, South Korea, August.

1989 **Novotny R**. “Rate of growth in length of Bangladeshi infants.” Association of Teachers of Maternal-Child Health, Washington, D.C., March.

1988 **Novotny R**. “Pansur Nauli demonstration project.” (**Invited**) Human Survival 1988-2000, A Conference, Windward Community College, HI, November.

1988 **Novotny R**. Panel. “Field responses to the Child Survival Movement.” (**Invited**) Child Survival Day, School of Public Health, University of Hawaii, February.

1987 **Novotny R**. “Title II Enhancement and child survival.” (**Invited**) AID, Dominican Republic, December.

1987 **Novotny R**. “Changing philosophies, programs and practices.” National Council for International Health, Washington, D.C., June.

1985 **Novotny R**. “Alimentacion, salud y estado nutricional del nino preescolar en la Sierra Ecuatoriana.” (**Invited**) 45 Congreso Internacional de Americanistas, Bogota, Columbia, July.

1984 **Novotny R**. “Hot and cold in illness and health in Gualaceo, Ecuador.” (**Invited**) 83rd Annual Meeting, American Anthropological Association, Denver, CO, November.

**POSTER PRESENTATIONS**

2016 Techur-Pedro A, Chutaro E, Tilfas P, **Novotny R**. Strengthening Health Workforce Capacity in the USAPI: PIHOA Pacific CHOR Project. PIHOA 60th Board Meeting, Honolulu.

2016 Yonemori KM, Ennis T, **Novotny R,** Fialkowski MK, Ettienne R, Wilkens LR, Leon Guerrero RT, Bersamin A, Coleman P, Boushey CJ. Collecting wrappers, labels, and packages to enhance dietary information from food records among children 2-8 years participating in the Children’s Healthy Living Program (CHL) for remote underserved minority populations in the Pacific region. National Nutrient Database Conference, May 16 – 18, 2016.

2016 Villiger RK, Boushey CJ, Yonemori KM, **Novotny R,** Fialkowski MK, Esquivel M, Banna JC. How does Hawai‘i stack up: Comparing nutrient intake in 2-8 year old participants in the Children’s Healthy Living (CHL) program in Hawai‘i (HI) to National Health and Nutrition Examination Survey (NHANES). College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 8 – 9, 2016.

2016 Fialkowski MK, Esquivel MK, **Novotny R.** Fostering Grant Writing Skills: A Student Learning Objective of the Intercollege Nutrition PhD Program. 2016 Assessment for Curriculum Improvement Poster Exhibit, University of Hawai‘i at Mānoa. April 15, 2016.

2015 Fialkowski MK and **Novotny R**. Integrated Monitoring and Evaluation in the Intercollege Nutrition PhD Program. 2015 Assessment for Curriculum Improvement Poster Exhibit, University of Hawa‘i at Mānoa. April 17, 2015.

2015 Tufa A, Hurwitz E, **Novotny R**, Fialkowski MK, Li F, Areta A. Acculturation and Childhood overweight and obesity in American Samoa: Results from the Children’s Healthy Living (CHL) Program. College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 10 – 11, 2015.

2014 Fialkowski MK, Delormier T, Hattori-Uchima M, Paulino Y, Deenik J, Areta A, Bersamin A, Boushey C, Nigg C, Kim J, Leslie J, Dunn M, **Novotny R**. Community-Based Projects for Training Underserved Minority Students of the U.S. Affiliated Pacific in the Children's Healthy Living Program. He Huliau Conference, Kapolei, HI, September 18 – 20, 2014.

2015 Badowski G, Leon Guerrero RT, Simsiman B, **Novotny R**, Wilkens L. Cumulative incidence rates of breast cancer for Filipinos and Chamorros in Guam and the United States *Cancer Research* 75(15 Supplement):3702-3702 · July 2015

2014 **Novotny R**, Fialkowski MK, Li F, Vargo D, Paulino Y, Jim R, Coleman P, Bersamin A, Nigg C, Leslie J, Leon Guererro RT, Dennik J, Kim J, Wilkens LR. Prevalence of young child overweight and obesity in the US Affiliated Pacific Region: Children’s Healthy Living Program (CHL).  American Society of Nutrition Sciences Annual Meeting, San Diego, CA, April.

2013 **Novotny R**, Nigg CR, Li F, Renda GR, Wilkens LR. Pacific Kids DASH for Health (PacDASH) Tailored Multilevel Intervention for Prevention of Obesity and Elevated Blood Pressure among Multiethnic Children. International Congress of Nutrition, Granada, Spain.

2012 Paulino Y, Wilkens Y, Katz A, **Novotny R**. Validation of the Areca (Betel) Nut State-Added Questionnaire in the Guam Behavioral Risk Factor Surveillance System (BRFSS)" has been selected for Poster presentation during the 140th APHA Annual Meeting (October 27 - October 31, 2012) in San Francisco, CA

2012 LeonGuerrero RL, **Novotny R**, Wilkens L, Chong M.“Development and validation of a quantitative FFQ for Guam”. 2012 Experimental Biology Conference April 21-25, 2012 (poster).

2012 LeonGuerrero RL, Blas MS, Bordallo R, Buyum A, **Novotny R**.“Recruitment of Pacific Islander Women for the Breast Cancer Risk Model in Pacific Islander (BRISK) study in the Mariana Islands”. 12th Biennial Symposium on Minorities, the Medically Underserved and Health Equity, June 27 – July 1, 2012

2012 Oshiro C, Grove J, **Novotny R.** Birth Size, Gestational Age, and BMI at Age 5y, HMO Research Network, March.

2011 Paulino Y, **Novotny R**, et al. Areca nut use is associated with obesity and arthritis in Guam: results from the 2007 Behavioral risk factor surveillance system”, 3rd North American Congress of Epidemiology, June 21-24, Montreal.

2010 Oshiro C, Grove J, **Novotny R**. Asian ancestry and birth length are associated with height among females during adolescence. Experimental Biology, Anaheim, CA.

2010 Daida Y, **Novotny R**. Infant feeding patterns of multiethnic mothers.

Experimental Biology, Anaheim, CA.

2010 Vijayadeva V, **Novotny R**, et al. “Association of Leptin Receptor Gene Polymorphisms with Body Fat Distribution in Multiethnic Adolescent Girls of Hawaii”. Experimental Biology 2010, Anaheim CA.

2010 **Novotny R**, et al. “Food and nutrient intakes of native Hawaiian, Filipino and White children and their caregivers. Experimental Biology. Anaheim, CA.

2009 Vogt TM, Williams AE, Stevens VJ, Albright C, Nigg C, **Novotny R**, Meenan R. Reducing Obesity in Worksites: Final Results of the Work, Weight, and Wellness (3W) Program. HMO Research Network, Danville PA, April.

2009 Epplein N, **Novotny R**, Daida Y, Vijayadeva V, Le Marchand L. Maternal and intrauterine hormone-related exposures and daughter's age at menarche in a multiethnic population in Hawaii. AACR Conference on The Science of Cancer Health Disparities, Carefree, AZ, February 3-6.

2006 Gittelsohn J et al. “Food preparation and psychosocial factors affect dietary intake in Native Hawaiian communities: Baseline Results from the Healthy Foods Hawaii Intervention.” Experimental Biology ‘06, San Francisco, CA, April.

2006 Daida Y, **Novotny R**, et al. “Birth weight is negatively associated with DXA trunk to periphery fat ratio of multiethnic adolescent girls.” Experimental Biology ‘06, San Francisco, CA, April.

2006 Oshiro C, Vijayadeva V, Daida Y, **Novotny R**, Grove J, LeMarchand L. “Protein intake is positively associated with waist circumference in female adolescents.” Experimental Biology ‘06, San Francisco, CA, April.

2006 Lee SK, Lee SK, Park SY, Oshiro C, **Novotny R**. “Negative association between dietary calcium intake and body fat of Koreans in Hawaii.” Experimental Biology ‘06, San Francisco, CA, April.

2006 **Novotny R**, Coleman P, Tenorio L, Davison N, Camacho T, Ramirez V, Danigellis E, Vijayadeva V, Untalan P, Tudela M.“Breastfeeding is associated with lower risk of overweight among children of the commonwealth of the Northern Marianas Islands.” Experimental Biology ‘06, San Francisco, CA, April.

2006 Osborne DL, Weaver C, Teegarden D, Van Loan M, **Novotny R**. “Investigating variation in cross-sectional geometry at the hip in adolescent girls.” Human Biology Association.

2004 Stavar S, **Novotny R**, Grove J, Daida Y, LeMarchand L. “Vitamin D receptor gene polymorphism BsmI but not FokI influences BUA bone accrual among adolescent girls in Hawaii.” CTAHR Student research symposium, University of Hawaii, April 2-3.

2003 Davison NH, Workman RL, Daida YG, **Novotny R**. “Healthy living in the Pacific Islands: Results of a focus group process to define perceptions of health and collaboration.” Global Public Health Conference, Honolulu, HI, June.

2003 **Novotny R,** Acharya S, Grove JS, Daida YG, Vogt TM. “Higher dairy intake is associated with lower body fat during adolescence.” ASNS/ Experimental Biology, San Diego, CA, April.

2001 Acharya S, **Novotny R**. “Maternal triceps skinfold thickness better than weight in predicting infant birth size.” 17th International Congress of Nutrition, Vienna, Austria, August.

2001 **Novotny R**, Goh Y\*. “Body fat and pubertal stage are independently associated with bone mass of Asian and Caucasian adolescents.” 17th International Congress of Nutrition, Vienna, Austria, August.

2001 Goh Y, **Novotny R**. “Pubertal stage and body fat predict bone mass among Asian and Caucasian Adolescents in Hawaii.” CTAHR Student Research Symposium, University of Hawaii, Honolulu, HI, April (First Prize- poster presentation, Graduate Students).

2000 **Novotny R**, Davis J. “Maternal hip size predicts infant birth weight better than maternal height.” Experimental Biology 2000, San Diego, CA, April.

1999 **Novotny R**, Han J-S, Biernacke I. “Motivators and barriers to consuming calcium-rich foods among Asian Adolescents in Hawaii.” Experimental Biology 99, Washington, D.C., April.

1997 **Novotny R**, Davis J, Ross P, Biernacke I. “Maternal pelvic size, as measured by DXA, predicts infant birthweight.” International Union of Nutritional Scientists. Montreal, Quebec, Canada, August.

1996 **Novotny R**, Ng FL. “Comparison of two dietary methodologies for use in rural Indonesia.” American Institute of Nutrition, Washington, D.C., April.

1996 Derrickson J, **Novotny R**, Gans D. “Nutrition education with Marriott Educational Services: University of Hawaii at Manoa.” Hawaii Dietetic Association, April.

1996 Chan C, Dobbs J, **Novotny R**. “Preliminary study of whole vegetable weights used in the Genesis Food Composition DataBase in comparison with actual weights taken from a supermarket.” CTAHR Student Symposium, University of Hawaii, Honolulu, HI, April. (First Prize - undergraduate student).

1995 Derrickson JD, Martinez A, Tanaka D, **Novotny R**. “Anthropometric assessment of Headstart Children on Oahu.” Hawaii Dietetics Association, Honolulu, HI, April.

1995 Britten P, **Novotny R**, Gans D. “Improving shoppers’ awareness and understanding of nutrition facts labels.” Society for Nutrition Education, Washington, D.C.

1995 **Novotny R**, Davis J, Ross P, Wasnich R. “Body fat and blood pressure in a multiethnic population in Hawaii.” Experimental Biology 95, Atlanta, GA.

1994 Britten P, Gans D, **Novotny R**. “Do food shoppers in Hawaii understand and use nutrition labels?” Hawaii Dietetics Association, Spring Conference, April.

1994 **Novotny R**. “Dietary diversity in Eastern Indonesia.” Experimental Biology ‘94, American Institute of Nutrition, Anaheim, CA, April.

1993 **Novotny R**, Davis J, Ross PD, Wasnich RD. “Factors influencing height of women in a multiethnic population in Hawaii.” XV International Congress of Nutrition, Adelaide, Australia, September 26-October 1.

1987 **Novotny R**. “Changing philosophies, programs and practices.” National Council for International Health, Washington, D.C., June.

**CONSULTANCIES**

2018 University of Arizona, Western Region Public Health Training Program, Development of Training on Acanthosis Nigricans. Feb.

2018 University of Guam, PICCAH study (Paulino), Anthropometric standardization of research staff in Pohnpei, Micronesia.

2016 Anthropometric Standardization of Head Start Staff for Northern Marianas College- Saipan, Pohnpei, American Samoa, conducted in Saipan- December.

2016 Anthropometric Standardization of Health Care Staff- Kosrae and Palau- Pacific Island Health Care Association, Honolulu. October and December.

2016 Presentation and chapter on Economic Influences on Child Weight Status in the US affiliated Pacific Islands. Asian Development Bank Institute, Tokyo. October and December.

2008- 2009 Provide technical assistance to Imi Hale Staff in cancer disparity research, program planning, and reporting. Papa Ola Lokahi, Honolulu, Hawaii. May - April.

2009 Review of existing Nutrition and Non Communicable Disease (NCD) Data and Development of National NCD and Nutrition Monitoring, Evaluation and Surveillance Framework in the Marshall Islands. World Health Organization, South Pacific. July – September.

2000–2001 Nutritional epidemiologist for design and analysis. “Spend Less. Eat Well. Feel Better Project.” Salvation Army, Honolulu, HI.

1999–2001 “Health Emergencies in Large Populations, Food and Nutrition.” Center of Excellence in Disaster Management and Humanitarian Aid. East-West Center, Honolulu, HI, July.

1999 “Intercultural Awareness and Communication Workshop.” School of Hawaiian, Asian and Pacific Studies, University of Hawaii, Honolulu, HI.

1998–1999 Assist in script and dietary methodology development. National Heart Lung and Blood Institute (NHLBI), Dietary Adherance to Dyslipidemia (Dietaid) project.

1997 Advisor, Survey of breastfeeding practices in Hawaii. “Helping Hands Hawaii.”

1992 Advisory Program, “Planning on infant feeding practices of WIC Participants.” WIC Program, Department of Health, January–September.

1991 Team Member, “Curriculum Development,” Universitas Pattimura, Ambon, Indonesia, March.

1990 Advisor, Hawaii Infant Feeding Survey, Dept. of Health, State of Hawaii, May– October.

1989 Child Survival Program Management for Latin America. The Medex Group, School of Medicine, University of Hawaii, Honolulu, HI, February.

1988 Maternal-Child Nutrition and Health in Micronesia. Republic of the Marshall Islands, Federated States of Micronesia- Chuuk, Kosrae and Pohnpei. Public Health Service/School of Public Health, University of Hawaii, HI, July.

1982 Diet of Bolivian women. Rural Development Services, NY, June.

**PROFESSIONAL DEVELOPMENT/CONTINUING EDUCATION**

2004-present CITI Human Protection Trainings.

2003 Transportation of Dangerous Biological Goods, University of Hawaii, October.

2003 Biological agents and Bloodborne Pathogens, University of Hawaii. October.

2003 Secretariat of the Pacific Community. Pacific Food Guide Training. Honolulu, HI, July.

2003 ESCOP/ECOP Leadership Development Program. Class 13. Indianapolis, Washington DC.

2003 Conversational Skills. Pacific Beach Hotel, Honolulu, HI, March.

2002 What Departmental Administrators Need to Know About Post-Award and Cost Analysis. National Council of University Research Administrators (NCURA) Video Workshop, University of Hawaii, Nov.

2002 Facilitating Strategic Thinking and Planning, Univ. Hawaii, Feb.

2001 Learning to Lead Collaboratively, College of Tropical Agriculture and Human Resources, Univ. Hawaii and Agricultural Leadership Foundation of Hawaii, Oct.

2000 Summer Academy, American Association for Higher Education, Snowbird, UT, July.

1997 CTAHR Grant Writing Workshop. Kilauea Military Camp. Hilo, HI, April.

1990–1994 Eight semesters, Indonesian Language, University of Hawaii.

1991 Asian Workshop on Nutrition in the Metropolitan Area, Centre for Extension and Continuing Education, Universiti Pertanian,Malaysia, Kuala Lumpur, Malaysia, September.

1990 Hess and Hunt Registered Dietitian’s Intensive Review Course, Chicago, IL, February.

1988 Leading Edge Outreach Conference in Nutrition Education: Linking Research and Practice. Honolulu, HI, November.

1987 Title II Enhancement Workshop. CARE, Calcutta, India November.

1986 Primary Health Care Enhancement Workshop. CARE, NY, November.

1986 Taller Sobre Evaluacion Qualitativa de Programas de Planificacion Familiar.

Profamilia/Pathfinder Fund, Jarabacoa, Dominican Republic, January.

**UNDERGRADUATE ADVISING (460 total)**

1980-2013 Advised approximately 10 undergraduate students per semester.

**GRADUATE STUDENTS ADVISED (59 total)**

Current Asuka Suzuki, PhD Nutritional Sciences. Adolescent Diet.

Current Geneva Mau, MS Nutritional Sciences. East Asian Diet and Obesity. CHL Study.

Current Pauline McFall, PhD Nutritional Sciences. Diet in American Samoa. **Chair** CHL Study

Current Rica Delacruz. PhD Public Health. Food Environment in CNMI. **Chair** CHL Study

Current Michael Wong. PhD Nutritional Sciences. 3D Optical Body Shape as a Cancer Risk Factor.

Current Bryntni Kalei Kealoha. MS. Nutritional Sciences. Sour poi and Health in Hawaiian Lore.

Current Michelle Blas Laguana, PhD Nutritional Sciences. Child food frequency questionnaire for Guam. **Chair.** CHL study.

Current Ashley McGuigan, PhD Botany. Importance of Agroforests for Human Health and Social-Ecological Resilience in Fiji.

Current Elise DelaCruz-Talbert, PhD, Epidemiology. The food environment. CHL Study.

2020 Hannah Holmes, MS Nutritional Sciences. Gestational Weight Gain.

2020 Ashley Yamanaka, PhD Epidemiology. Examination of Healthy Growth in the US Affiliated Pacific. **Chair**. CHL Study. Currently Jr. Researcher and Data Manager. CHL Center.

2019 Aifili Tufa, PhD, Epidemiology. CHL American Samoa: Child obesity and Acanthosis Nigricans. **Chair**. CHL Study. Currently Territorial Epidemiologist, American Samoa.

2019 Allison Calabrese. MS Nutritional Sciences. The Relationship between protein intake and Acanthosis Nigricans among young children in the Children’s Healthy Living Program in the United States Affiliated Pacific. CHL Study. Currently High School Teacher Kamehameha Schools.

2018 Jean Butel, PhD Public Health. Applying the Collective Efficacy Mechanism to Action Model to the Children’s Healthy Living program: a Multilevel, Multisite Intervention. CHL study. Currently Jr. Researcher and Program Manager, CHL.

2016 Misty Wilcox, MS, Nutritional Sciences. Nutritional Management of Individuals with chronic disease and vulnerable populations following a disaster.

2016 Makena Dyer, MS, Nutritional Sciences. The relationship between iron status and depression symptoms in non-inflamed women.

2015 Lenora Matanane, MS, Nutritional Sciences. CHL Guam: Access to fruits and vegetables and child obesity in Guam. CHL Study. Currently Dietitian Guam Memorial Hospital.

2015 Tanisha Aflague, PhD, Nutrition. CHL Guam: Indigenous Fruit and Vegetables for child obesity prevention in Guam. CHL Study. Currently Tenure track Assoc. Professor, University of Guam.

2015 Angela Techur-Pedro, PhD, Epidemiology. Placental size and birth weight. RMATRIX biospecimen program. **Co-Chair**. RMATRIX study. Currently Investigator with Pacific Islands Health Officers Association.

2015 Monica Esquivel, PhD, Nutrition, CHL Hawaii:Wellness Policy Implementation for child obesity prevention in Hawaii. **Chair**. CHL study. Currently Tenure track Assistant Professor, Nutrition faculty UH.

2013 Dalton Cheung, MS, Nutritional Sciences. FAM study: Dietary Calcium and Vitamin D for improving adolescent growth in Hawaii. FAM study.

2013 David St. Jules, PhD, Nutrition. Fish and Long-chain omega-3 fatty acids in pediatric liver disease. FAM study. Currently Non tenure track faculty, New York University.

2013 Joanne Avila, MS, Nutritional Sciences, UH. Thesis: Added Sugar in Overweight and Obesity among Multiethnic Children in Hawaii. PacDASH study. **Chair.** PacDASH Study.

2012 Caryn Oshiro, PhD, Biomedical Sciences- Epidemiology, UH. Dissertation: Birth Size, Infant Growth, and Child BMI at 5y in a Multiethnic Population. **Chair.** PacDASH study. Currently Investigator, Center for Health Research, Kaiser Permanente Hawaii.

2012 Nate E. Black, MS, Nutritional Sciences, Plan B, UH: Factors Influencing Body Fatness in Young Samoan Women Living in Hawaii. **Chair.** SWHA Study.

2011 Kevin Cassel, DrPH, Public Health Sciences, UH. Dissertation: The Tailoring of a community-based approach to reduce obesity among Samoans in Hawaii. CurrentlyNon-tenure track faculty UHCC.

2011 Jodi Leslie, DrPH, Public Health Sciences, UH. Dissertation: Chronic disease risk factors among multiethnic blue- and white-collar workers in Hawaii.

2010 Vinutha Viyajadeva, PhD, Biomedical Sciences-Epidemiology, UH. Dissertation: Determinants of Plasma Leptin and Age at Menarche in Adolescent Girls in Hawaii. **Chair.** FAM Study.

2010 Masako (Tsugumi) Matsunaga, MPH, Public Health, UH, Practicum Supervisor.

2010 Rona Michi Ikehara, PhD, Physical Anthropology, UH. Dissertation: An Assessment of Health in Early Historic (200BC to AD200) inhabitants on Vat Komnou, Ankor Borei, Southern Cambodia: A Bioarcheological Perspective.

2009 Yvette Paulino, PhD, Biomedical Sciences- Epidemiology, UH. Dissertation: Describing Measuring Variability of *ARECA CATECHU* (Betel Nut) Chewing in Micronesian Populations in Guam. **Chair.** U54 Betel Nut Study**.** Currently Tenured Associate Professor, Health Science faculty, University of Guam.

2007 Carrie Martin, MS, Nutritional Sciences, UH. Thesis: Dietary supplement use among children in Hawaii. HLPI: HPCP study.

2004 Vanessa Nabokov, MS, Nutritional Sciences, UH. Thesis: Samoan women’s health assessment. **Chair.** SWHA Study.

2004 Samanta Amenta Stavar, MS, Nutritional Sciences, UH. Thesis: Do Fok1 and Bsm1 polymorphisms affect bone gain during adolescence? **Chair.** FAM Study.

2002 Yumie Takata, MS, Nutritional Sciences, UH. Thesis: Mammographic density, body mass index, and dietary habits in Japan and Hawaii.

2002 Edward Suarez, PhD. Psychology, UH, Psychology: Prognosis and Outcome of First-Episode Psychosis in Hawaii: Results of the 15-year follow-up of the Honolulu cohort of the WHO International study of schizophrenia.

2002 Heather Riley, PhD. Psychology, UH, Dissertation: The Predictive Validity of Index Schneiderian First Rank Symptoms for 15-year Outcome.

2002 Erin Ring Dyer, PhD. Psychology, UH, Dissertation: Exploration into Trauma Experiences: Psychosocial Adjustment and Wellbeing of Displaced children seeking asylum.

2001 Sushama Acharya, MS. Nutritional Sciences, UH, Thesis: Indicators of Maternal Nutritional Status, **Chair.**

2001 Caryn Shima, MS. Nutritional Sciences, UH, Thesis: Calcium Intake of Adolescents in Hawaii, **Chair.** ACT Study**.**

2001 Yee Hwa Goh, MS. Nutritional Sciences, UH, Thesis: Dietary Soy Isoflavone and Bone Mass in Female Adolescents, **Chair.** FAM Study**.** Currently Investigator, Center for Health Research, Kaiser Permanente Hawaii.

2000 Carol Cabal, PhD. Agricultural Economics, UH, Dissertation: Food Security among Women in Ethiopia.

1999 Carolyn Chan, MS. Nutritional Sciences, UH, Thesis: The Effects of a High Fruit and Vegetable Diet on Plasma Carotenoids, **Chair.**

1999 Christine Edwards, MS. Nutritional Sciences, UH. Thesis: Prealbumin

(Transthyretin) Decreases during Pregnancy, **Chair.**

1998 Scott Nishimoto, MS. Nutritional Sciences, UH, Thesis: A Questionnaire to Assess the Risk of Vitamin D Toxicity in Competitive Amateur Bodybuilders.

1997 Jian Han, MS. Nutritional Sciences, UH, Thesis: Effect of Aluminum on Iron and Ferritin Metabolism.

1997 Michelle Sparling, MS. Nutritional Sciences, UH, Thesis: The Influence of Modern Diet on BMI in Western Samoans, **Chair**. Currently Dietitian, Wilcox Hospital, Kauai.

1996 Nugroho Abikusno, DrPH. Public Health, UH, Dissertation: Factors Influencing Colostrum Practice of Women Attending Community Health Posts in South Jakarta Indonesia August 1993.

1996 Tjahjono Kuntjoro, DrPH. Public Health, UH, Dissertation: Determinant Factors Influencing Nurse Performance in Public and Private Hospitals in Indonesia.

1995 Fooi Ling (Irene) Ng, MS. Nutritional Sciences, UH, Thesis: Validation of the 24 Hour Dietary Recall for Dietary Assessment of Women in the Village of Lohiatala, Kairatu District, Province of Maluku, Indonesia, **Chair**. Sago Project.

1995 Peggy Tang, MPH. Public Health, UH, Project: An Estimation of Dietary Intake Differs with Technique of Implementing the 24-hour Dietary Recall Among Women in Seram, Eastern Indonesia, **Field Supervisor**. Sago Project.

1994 Elanah Greer Toporoff, DrPH, Public Health, UH, Dissertation: Effects of Maternal Risk and Mother-Infant Feeding Interactions on Growth and Development.

1992 Rachael T. Taitano LeonGuerrero, MS. Nutritional Sciences, UH, Thesis: Validation of a Food Frequency Questionnaire to Estimate Calcium Intake among Pre-menopausal women in Hawaii, **Chair**. Vice Provost, University of Guam.

1991 Nugroho Abikusno, MS. Nutritional Sciences, UH, Thesis: Functional Indicators of Women’s Nutritional Status in Cilandak, South Jakarta, **Chair**. Medical faculty, Trisakti University.

**OTHER GRADUATE EXAMINATIONS**

2020 Hannah Holmes. MS Qualifying Exam. Nutritional Sciences.

2020 Tyra Fonseca. MS Qualifying Exam. Nutritional Sciences.

2019 Asuka Suzuki. PhD Qualifying Exam. Nutritional Sciences.

2019 Michael Wong. MS Qualifying Exam. Nutritional Sciences.

2019 Geneva Mau. MS Qualifying Exam. Nutritional Sciences.

2018 Chenchen Zhao. MS Qualifying Exam. Nutritional Sciences.

2013 Jillian Wate,Sociocultural influences on changes in dietary patterns of Fijian adolescentsSociocultural influences on changes in dietary patterns of Fijian adolescents, PhD examiner, Health and Social Development, Deakin University, Melbourne

2013 Lenora Matanabe, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2013 Joy Galloway, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2012 Ziwen, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2012 Dalton Cheung, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2012 Mai Fujii, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2012 Bradley Krzykowski, MS Candidacy Exam, Nutritional Sciences.

2010 Eva Chiu, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2010 Hai Van, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2009 Cheryl Koide, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2008 Mihoko Yacavone, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2007 Margaret Pulver, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii

2006 Maria Pia Chaparro, MS Candidacy Exam, Nutritional Sciences, Univ. HI

2006 Kelley Hatfield, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2006 Shana Suzuki, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2006 Carrie Blitz, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2006 Stacey Snee, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2003 Tsugumi Masako, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2003 Linda Yeh, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2003 Ana Valiere, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2003 Joyce Wu, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2002 Leslie Ooi, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2001 David Miller, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii

2001 Liisa Kotiliainen, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

2000 Joshua Seligman, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1999 Rachel Mahon, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1999 Kimberly Cox, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1999 Tate Yoshimura, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1996 Serena Colah, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1995 Lin Gao, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1994 Chao Xing, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1993 Saw Leng Too, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1993 Christina Liew, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii.

1992 Helen Murphy, DrPH Candidacy Exam, Public Health, Univ. Hawaii.

1992 Debby Luffey, MS Candidacy Exam, Nutritional Sciences, Univ. Hawaii

**POST-DOCTORAL FELLOWS/EARLY CAREER FACULTY ADVISED (18)**

2020- present Ashley Yamanaka, PhD, Jr. Researcher, HNFAS, CTAHR, UH.

2019- present MJ Lee, PhD, Asst. Prof, HNFAS, CTAHR, UH.

2019- present Birendra Mishra, PhD, Asst. Prof, HNFAS, CTAHR, UH.

2018- present Jean Butel, PhD, Jr. Researcher, CHL, HNFAS, CTAHR, UH.

2017-present Claire Thompson Ing, PhD, Asst Prof., Native Hawaiian Health, University of Hawaii.

2017-2018 Nicole (Kau’i) Baumgarten, PhD, Asst Prof., Native Hawaiian Health, University of Hawaii.

2015- present Monica Esquivel, PhD, RD, Nutrition, Jr Researcher and Instructor, University of Hawaii. Currently Asst. Prof UH Nutrition, tenure track.

2013- 2014 Jinan Banna, PhD, Nutrition, Asst. Professor, University of Hawaii. Currently Assoc Prof, Tenured.

2012- 2016 Fenfang Li, PhD, Epidemiology, Currently Epidemiologist, Hawaii State Dept Health, Honolulu.

2011- 2015 Jodi Haunani Leslie, PhD, Public Health, Currently Instructor, University of Hawaii at Hilo

2011- 2014 Marie Kainoa Fialkowski, PhD, Health Promotion, Jr. Researcher. Currently Assoc. Prof, UH, Tenured.

2010- 2015 Katalina McGlone, PhD, Social Welfare, Jr. Researcher, Univ. Hawaii.

2010- 2014 Rachael Leon Guerrero, PhD, Nutrition. Currently tenured, Vice Provost , University of Guam.

2010-2011 Yuhua Su, PhD, Statistics, Jr. Researcher, University of Hawaii.Currently owns consulting business.

2010-2011 Ashley Stokes, PhD DVM, Associate Professor, HNFAS, Univ. Hawaii. Currently Director of Global Engagement, Colorado State University.

2009-2010 Jamie Boyd, PhD, Assistant Professor, Windward Community College, Hawaii.

2004–2006 Soo Kyung Lee, PhD, R25 Cancer Training Grant, University of Hawaii.

2003–2004 Le Vuong, PhD, R25 Cancer Training Grant, University of Hawaii at Manoa.

1997–1998 Ji-Sook Han, PhD, Pusan National University, Pusan, Korea.

**TEACHING EXPERIENCE**

**COURSES TAUGHT IN FOOD SCIENCE AND HUMAN NUTRITION AND PUBLIC HEALTH, UH (11 different classes)**

Dept Sem.Yr. Crs No. Course Title Credits No.Stud.

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| --- | --- | --- | --- | --- |
| FSHN Sp90 | 493\* | Community Nutr. | 4 | 9 |
| FSHN Sp90 | 699 | Dir. Rdg. & Res. | 1 | 1 |
| FSHN Su90 | 699 | Dir. Rdg. & Res. | 1 | 1 |
| FSHN Fa90 | 699 | Dir. Rdg. & Res. | 1 | 1 |
| FSHN Sp91 | 493\* | Community Nutr. | 3 | 8 |
| FSHN Sp91 | 470 | Lifespan Nutr. | 2 | Mod.1=17\*\* |

Mod.2=15

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| FSHN Sp91 | 699 | | | Dir. Rdg. & Res. | | | 2 | 1 | | |
| FSHN Su91 | 699 | | | Dir. Rdg. & Res. | | | 2 | 1 | | |
| FSHN Fa91 | 681 | | | Sem. in Nutr. Sci. | | | 1 | 11 | | |
| FSHN Fa91 | 699 | | | Dir. Rdg. & Res. | | | 2 | 1 | | |
| FSHN Sp92 | 470 | | | Lifespan Nutr. | | | 3 | 22 | | |
| FSHN Sp92 | 493\* | | | Community Nutr. | | | 3 | 14 | | |
| FSHN Sp92 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Su92 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Fa92 | 681 | | | Sem. in Nutr. Sci. | | | 1 | 4 | | |
| FSHN Fa92 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Sp93 | 470 | | | Lifespan Nutr. | | | 1 | 27 | | |
| FSHN Sp93 | 250\*\*\* | | | Hum. Need & Want | | | 3 | 53 | | |
| FSHN Sp93 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Fa93 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Sp94 | 370 | | | Lifespan Nutrition | | | 1 | 22 | | |
| FSHN Sp94 | 493\* | | | Community Nutr. | | | 3 | 13 | | |
| FSHN Sp94 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Su94 | 499\*\*\*\* | | | Topics-Fd,Ag&Nut. | | | 3 | 11 | | |
| FSHN Su94 | 699 | | | Dir. Rdg. & Res. | | | 1 | 6 | | |
| FSHN Fa94 | 451\* | | | Community Nutr. | | | 3 | 10 | | |
| FSHN Fa94 | 682 | | | Sp. Top.- Nutr. Epi. | | | 1 | 6 | | |
| FSHN Fa94 | 699 | | | Dir. Rdg. & Res. | | | 2 | 1 | | |
| FSHN Sp95 | 370 | | | Lifespan Nutrition | | | 1 | 38 | | |
| FSHN Sp95 | 467 | | | Nutritional Assessment | | | 1 | 19 | | |
| FSHN Sp95 | 700 | | | Thesis Research | | | 2 | 1 | | |
| FSHN Fa95 | 451\* | | | Community Nutr. | | | 2 | 18 | | |
| FSHN Fa95 | 699 | | | Dir. Rdg. & Res. | | | 1 | 1 | | |
| FSHN Sp96 | 370 | | | Lifespan Nutr. | | | 1 | 42 | | |
| FSHN Sp96 | 467 | | | Nutritional Assessment | | | 1 | 26 | | |
| FSHN Sp96 | 499 | | | Dir. Rdg. & Res. | | | 3 | 2 | | |
| FSHN Sp96 | 699 | | | Dir. Rdg. & Res. | | | 2 | 1 | | |
| FSHN Su96 | 699 | | | Dir. Rdg. & Res. | | | 6 | 6 | | |
| FSHN Fa96 | 451 | | | Community Nutrition | | | 3 | 22 | | |
| FSHN Fa96 | 699 | | | Dir. Rdg. & Res. | | | 3 | 3 | | |
| FSHN Sp97 | 370 | | | Lifespan Nutrition | | | 1 | 32 | | |
| FSHN Sp97 | 685 | | | Progress in Human Nutrition | | | 2 | 6 | | |
| FSHN Sp97 | 699 | | | Dir. Rdg. & Res. | | | 2 | 5 | | |
| FSHN Sp97 | 700 | | | Thesis Research | | | 1 | 8 | | |
| FSHN Su97 | 699 | | | Dir. Rdg. & Res. | | | 1 | 8 | | |
| FSHN F97 | 451\* | | | Community Nutrition | | | 3 | 25 | | |
| FSHN F97 | 492\* | | | Field Experience | | | 4 | 6 | | |
| FSHN F97 | 700 | | | Thesis Research | | | 1 | 6 | | |
| FSHN S98 | 492\* | | | | Field Experience | | 4 | | 7 | | |
| FSHN S98 | 685 | | | | Progress in Human Nutrition | | 2 | | 3 | | |
| FSHN S98 | 699 | | | | Dir Rdg and Research | | 1 | | 8 | | |
| FSHN S98 | 700 | | | | Thesis Research | | 1 | | 1 | | |
| Sabbatical- Cancer Research Center of Hawaii | | | | | | | | | | | |
| FSHN F98 | 700 | Thesis Research | | | | | 1 | | 1 | | |
| FSHN S99 | 685 | Progress in Human Nutrition | | | | | 2 | | 4 | | |
| FSHN S99 | 492\* | Field Experience | | | | | 4 | | 6 | | |
| FSHN S99 | 699 | Dir. Rdg and Research | | | | | 4 | | 2 | | |
| FSHN S99 | 700 | Thesis Research | | | | | 2 | | 2 | | |
| FSHN S99 | 699 | Dir. Rdg and Research | | | | | 4 | | 2 | | |
| FSHN S99 | 700 | Thesis Research | | | | | 1 | | 1 | | |
| FSHN Fa99 | 492\* | Field Experience | | | | | 4 | | 3 | | |
| FSHN Fa99 | 700 | Thesis Research | | | | | 3 | | 2 | | |
| FSHN Fa99 | 699 | Dir. Rdg and Research | | | | | 1 | | 3 | | |
| FSHN Sp00 | 685 | Progress in Human Nutrition | | | | | 2 | | 4 | | |
| FSHN Sp00 | 492\* | Field Experience | | | | | 4 | | 9 | | |
| FSHN Sp00 | 699 | Dir Rdg and Research | | | | | 3 | | 1 | | |
| FSHN Sp00 | 700 | Thesis Research | | | | | 1 | | 5 | | |
| FSHN Fa00 | 492\* | Field Experience | | | | | 4 | | 6 | | |
| FSHN Fa00 | 490\* | Field Experience | | | | | 4 | | 6 | | |
| FSHN Fa00 | 699 | Dir. Rdg and Research | | | | | 1 | | 4 | | |
| FSHN Fa00 | 700 | Thesis Research | | | | | 2 | | 8 | | |
| FSHN Sp01 | 492 | Field Experience | | | | | 4 | | 20 | | |
| FSHN Sp01 | 700 | Thesis Research | | | | | 3 | | 5 | | |
| FSHN Fa01 | 492 | Field Experience | | | | | 4 | | 5 | | |
| FSHN Sp02 | 492 | Field Experience | | | | | 4 | | 19 | | |
| FSHN Sp02 | 699 | Dir. Reading and Research | | | | | 5 | | 2 | | |
| FSHN Sp03 | 699 | Dir. Reading and Research | | | | | 4 | | 2 | | |
| FSHN Fa03 | 699 | Dir. Reading and Research | | | | | 2 | | 1 | | |
| FSHN Fa03 | 700 | Thesis Research | | | | | 11 | | 2 | | |
| FSHN Sp04 | 700 | Thesis Research | | | | | 9 | | 2 | | |
| FSHN Sp04 | 699 | Dir. Reading and Research | | | | | 4 | | 1 | | |
| *Sabbatical- FAO, WHO, IARC* | | | | | | | | | | | |
| FSHN Sp06 | 389 | Nutritional Assessment | | | | | 2 | | 27 | | |
| *Kaiser Permanente Center for Health Research Hawaii – 90%FTE for 2 years* | | | | | | | | | | | |
| PH Fa06 | 699 | | Dir. Reading and Research | | | | 6 | | 3 | | |
| PH Sp07 | 699 | | Dir. Reading and Research | | | | 6 | | 3 | | |
| PH Fa07 | 699 | | Dir. Reading and Research | | | | 6 | | 3 | | |
| PH Sp08 | 699 | | Dir. Reading and Research | | | | 6 | | 3 | | |
| PH Fa08 | 699 | | Dir. Reading and Research | | | | 6 | | 3 | | |
| FSHN Fa08 | 699 | | Dir. Reading and Research | | | | 3 | | 1 | | |
| FSHN Sp09 | 631 | | Nutritional Epidemiology | | | | 3 | | 6 | | |
| PH Sp09 | 631 | | Nutritional Epidemiology | | | 3 | | | 1 |
| FSHN Sp09 | 699 | | Dir. Reading and Research | | | 1 | | | 1 |
| PH Sp09 | 699 | | Dir. Reading and Research | | | 10 | | | 3 |
| PH Fa09 | 800 | | Dissertation Research | | | 1 | | | 1 |
| PH Fa09 | 699 | | Dir. Reading and Research | | | 7 | | | 2 |
| FSHN Fa09 | 699 | | Dir. Reading and Research | | | 5 | | | 2 |
| FSHN Sp10 | 699 | | Dir. Reading and Research | | | 6 | | | 2 |
| PH Sp10 | 699 | | Dir. Reading and Research | | | 12 | | | 2 |
| PH Sp10 | 800 | | Dissertation Research | | | 1 | | | 1 |
| PH Fa10 | 800 | | Dissertation Research | | | 1 | | | 1 |
| PH Fa10 | 699 | | Dir. Reading and Research | | | 1 | | | 1 |
| FSHN Fa10 | 699 | | Dir. Reading and Research | | | 5 | | | 3 |

FSHN Sp11 699 Dir. Reading and Research 5 2

PH Sp11 699 Dir. Reading and Research 1 1

FSHN Fa11 699 Dir. Reading and Research 5 2

PH Fa11 699 Dir. Reading and Research 2 1

FSHN Sp12 699 Dir. Reading and Research 7 2

PH Sp 12 800 Dissertation Research 1 1

FSHN Fa 12 699 Dir. Reading and Research 10 3

FSHN Sp13 700 Thesis 1 1

FSHN Sp 13 699 Dir. Reading and Research 3 3

FSHN Fa 13 699 Dir. Reading and Research 9 2

FSHN Sp 14 699 Dir. Reading and Research 8 2

FSHN Fa 14 699 Dir. Reading and Research 1 1

FSHN Sp 15 800 Dissertation Research 1 1

FSHN Fa 15 699 Dir. Reading and Research 1 1

PH Sp 16 800 Dissertation Research 1 1

FSHN Sp 16 699 Dir. Reading and Research 1 1

FSHN Fa 16 699 Dir. Reading and Research 6 3

PH Fa 17 800 Dissertation Research 1 2

FSHN Fa 17 699 Dir. Reading and Research 5 2

FSHN Sp 18 699 Dir. Reading and Research 4 2

PH Sp 18 800 Dissertation Research 2 2

FSHN Fa 18 699 Dir. Reading and Research 10 3

PH Fa 18 800 Dissertation Research 2 2

FSHN Fa 18 681 Seminar 1 17

FSHN Fa 19 681 Seminar 1 18

FSHN Sp 20 699 Dir. Reading and Research 2 2

PH Sp 20 800 Dissertation Research 1 1

\* Writing Intensive

\*\* Mod= module; course taught in 3 modules

\*\*\* This course is team taught among faculty in the college; the FSHN faculty is the coordinator

\*\*\*\* 3 weeks of this course were taught in Indonesia, 1 week at University of Hawaii-Manoa

**COURSES TAUGHT AT SCHOOL OF PUBLIC HEALTH, UNIVERSITY OF HAWAII**

1989 Directed Reading, Use of Scaling in Nutrition Research, PH 699, University of Hawaii, Fall.

1989 Directed Reading, Community Nutrition Surveying. PH 699, University of Hawaii, Fall.

1989 Directed Reading, Growth Monitoring and Nutritional Surveillance, PH 699(7), University of Hawaii, Spring.

1989 Child Survival Interventions: Theory and Practice, PH 797 (7), University of Hawaii, Spring.

1988–1989 Issues and Concepts in MCH, PH 647, University of Hawaii, Fall.

**OTHER TEACHING**

2018 Acanthosis Nigricans: Screening and Referral for Insulin Resistance online course:Target Audience:Community Health Workers, Registered Dietitians, Public Health Nurses, and other health professionals working with youth.

Tiers and Competency Domains: Tier 1: Policy development, program planning skills, communication skills, community dimensions of practice, leadership and systems thinking skills.Tier 2: Policy development, program planning skills, communication skills, leadership and systems thinking skills.

Duration: approx 1 hr

Continuing Education Information:1.0 CECH for CHES, CHES Provider number: 99036

Format: web-based, self-study

Created: 2/2018

Author: Rachel Novotny, PhD, Douglas Taren, PhD, Allison Root, MS, RD, Dominique Henry, MEd, Kelly Mach, BS

2012 Teaching Evaluation. Dr. Jamie Boyd, FSHN 185, Windward Community College.

2001–2011 Faculty Mentor & Advisory Committee Member. Cancer Control Research Training in Multiethnic Hawaii, R25T Postdoctoral Training grant, PI Karen Glanz, Gertraud Maskarinec.

1988 Growth Monitoring and Evaluation for Public Health Personnel, Federated States of Micronesia (Chuuk, Pohnpei, and Kosrae), July-August.

1986–1987 Primary Health Care, Department of Health, personnel and community health workers, CARE/AID, Dominican Republic.

1981 Teaching Assistant, Maternal-Child Nutrition, Cornell University, Spring.

1977 Instructor, Park and Recreation Dept., Corvallis, Oregon, Instructed class and field course for families on intertidal life.

1976 Instructor, San Joaquin Outdoor Education School, La Honda, CA. Instructed sixth graders in outdoor studies.

**GUEST LECTURES**

2016 Multilevel Intervention Trials for Obesity Prevention. FSHN 686. Advanced Child and Adolescent Nutrition, Spring.

2015 Nutritional Assessment of Populations. Clinical Research Seminar, Spring.

2014-2016 Food Composition for the Pacific and the Pacific Tracker (PacTrac), Nutritional Assessment, FSHN 389, Fall & Spring.

2013 Healthy Foods Hawaii. FSHN 686. Child and Adolescent Nutrition. Spring.

2010-2013 Guest Lectures- Anthropometry and Body Composition in FSHN/PH Nutritional Epidemiology.

2009 Global Nutrition. Global Health Course PH, University of Hawaii at Manoa, Fall.

2005 Food and Nutrition in Emergencies. Seminar in Disaster Management and Humanitarian Assistance. PACE, University of Hawaii, Spring.

2002 Refugee Food and Nutrition, PSY-774/PACE-485 Seminar in Disaster Management and Humanitarian Assistance.

2002 International Community Nutrition, FSHN 451, University of Hawaii, Fall.

2002 Refugee Food and Nutrition, PSY 774, University of Hawaii, Spring.

2001 Food and Nutrition in Disasters, PSY 773, University of Hawaii, Fall.

2000 International Nutrition, FSHN 451, University of Hawaii, Fall.

2000 Food and Nutrition in Disasters, PSY 773, University of Hawaii, Fall.

2000 Human Right to Food and Nutrition, PSY 773, University of Hawaii, Spring.

1999 Nutritional Assessment, FSHN 467, University of Hawaii, Fall.

1999 Nutritional Assessment, FSHN 467, University of Hawaii, Spring.

1998 Food, Health and Society, ANTH 427, University of Hawaii, Summer.

1997 Issues and Concepts in Maternal and Child Health, PH 647, University of Hawaii, Fall.

1996 Child Survival, PH 737, University of Hawaii , Spring.

1995 Issues and Concepts in Maternal and Child Health, PH 647, University of Hawaii, Fall.

1995 Hawaii International Program, FSHN 499, University of Hawaii, Summer.

1995 Health and Human Development, PH 642, University of Hawaii, Summer.

1995 International Nutrition, PH 633, University of Hawaii, Spring.

1995 Child Survival, PH 737, University of Hawaii, Spring.

1993 Child Survival, PH 737, University of Hawaii, Spring.

1993 Human Needs and Environmental Resources, FSHN 250, University of Hawaii, Spring, Fall.

1993 Strategies in Nutrition Education, FSHN 387, University of Hawaii, Fall.

1990–1993 Nutrition Assessment and Diet Counseling, FSHN 489, University of Hawaii.

1992 Maluku Culture and Resources Health, ASAN 398, University of Hawaii, Spring.

1988 SE Asian Cultures in Health, HSSW 497, University of Hawaii, Fall.

1988 Maternal and Child Nutrition, PH 743, University of Hawaii, Fall.

1988 PH Nutrition Problems in Developing Countries, PH 633, University of Hawaii, Spring.

1988 Pacific Island Cultures in Health, HSSW 498, University of Hawaii, Spring.

**LANGUAGE SKILLS**

English (native), Spanish (fluent: read, and write), Indonesian (advanced: read, write), French (read)

Jenee Sachie Odani

**1955 East West Road, Ag Sci 314D**

**Honolulu, HI 96822**

**(808) 956-3847**

**E-mail: jsodani@hawaii.edu**

**Education:**

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| 2001-2004 | Residency in Diagnostic/Anatomic Veterinary Pathology  University of California-Davis/California Animal Health & Food Safety Laboratory, San Bernardino Branch, San Bernardino, CA |
| 1999 | Doctor of Veterinary Medicine  University of California-Davis, School of Veterinary Medicine, Davis, CA  Regent Scholar |
| 1994 | Bachelor of Arts, Zoology  University of Washington, Seattle, WA |
| 1991-1993 | No degree awarded, transferred; Regent Scholar  University of Hawai‘i at Mānoa |

**Specialty Board Certification:**

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| 2006 | Diplomate, American College of Veterinary Pathologists, Anatomic Pathology |
|  |  |

**Licenses**

1999-present Licensed Veterinarian

State of Hawai‘i#VE-420 (active); State of California #13781 (inactive)

**Professional Experience**:

2016-present **Department of Human Nutrition, Food and Animal Sciences, College of Tropical Agriculture and Human Resources, University of Hawai‘i at Mānoa**, Honolulu, HI: Associate Specialist. Extension Veterinarian. 11-month appointment as S-4 (Associate Specialist). Duties distributed as follows: **55% Extension, 35% Instruction, 10% Research**.

2012-2016 **Hawai‘i Department of Agriculture, Veterinary Laboratory**, Aiea, HI: Laboratory Director. Supervised all laboratory activities and laboratory staff (1 Veterinary Medical Officer, 3 microbiologists, 1 livestock inspector) and developed technical SOPs and quality system materials. Implemented a quality system and initiated a program of self-audits. Continued duties/responsibilities as described below.

2006-2012 **Hawai‘i Department of Agriculture, Veterinary Laboratory**, Aiea, HI: Veterinary Medical Officer. Provided necropsy services for primarily porcine and avian specimens, and extensive consultation services to the state Animal Disease Control and Quarantine State veterinarians. Managed the technical aspects of the laboratory (serology, bacteriology, parasitology, histology and limited bacteriology). Coordinated the Classical Swine Fever Surveillance/Umbrella Animal Health Surveillance cooperative agreement with the USDA, APHIS-VS 2008-2016. Assisted with development and execution of animal disease response plans. Performed import/export animal inspections on an as-needed basis.

2011-2015 **University of Hawai‘i at Mānoa**, College of Tropical Agriculture and Human Resources, Honolulu, HI: lecturer. Taught the upper division Anatomy of Agricultural Animals course (ANSC 301) and laboratory (ANSC 301L) for one semester each year.

Fall 2008 **University of Hawai‘i at Mānoa,** College of Tropical Agriculture and Human Resources, Honolulu, HI: lecturer. Taught the upper division Animal Diseases course (ANSC 453).

2004-2006 **California Animal Health & Food Safety Laboratory**, San Bernardino, CA: Post-doctoral Associate/Veterinary pathologist. Necropsy/biopsy services of primarily equine, bovine, ovine, caprine, avian specimens (limited feline, canine, exotics). Interpreted microbiology, toxicology, virology and serology results.

2003-2006 **Humane Society of San Bernardino**, San Bernardino, CA: Independent Contract Veterinarian. Conducted weekend clinics: primarily vaccinations and limited outpatient medicine. Served occasionally in special capacity to document/treat abuse cases.

2000-2001 **Benicia Cat Clinic**, Benicia, CA: Associate Veterinarian, temporary position. General feline practice, routine surgery and medicine.

1999-2001 **Banfield the Pet Hospital**, South Sacramento, CA: Associate Veterinarian.

General small animal practice, routine surgery and medicine.

2000-2002 **Herring Disease Project**, Prince William Sound, AK: Assistant Pathologist

Assisted Dr. Gary Marty with project studying pigmented macrophage aggregates in the Pacific Herring from Prince William Sound, Alaska. Annual trips in April to Alaska to perform gross necropsies of 150 herring each year (450 total). Assisted with point-count morphometry to quantify the volume of pigmented macrophage aggregates in the liver.

**Veterinary Extension (Community/Industry) Outreach Activities: (0.55 FTE)**

My extension program is broad and encompasses many areas of need in the fields of veterinary medicine, animal health, and management. My stakeholders include veterinarians, veterinary paraprofessionals, veterinary/pre-veterinary students, livestock/aquaculture producers, producer groups, state and federal agencies, and members of other related fields. In addition to the activities detailed below, I have (August 2016-July 2019), conducted 202 consultations with various stakeholders, including email communications, phone conversations, office calls, or farm visits.

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| 2018 - present | University of Hawaii Animal Diagnostic Laboratory (UH-ADL); establishing a diagnostic laboratory and obtain USDA certification to perform export testing (PCR-based) for OIE-listed shrimp pathogens, including drafting of all technical SOPs and the Quality Management System documents. |
| 2018 - present | Hawaii Poultry Improvement Program. Working with Hawaii Department of Agriculture to draft requirements for participation in the national program to improve poultry health and poultry products. Responsible for logistics of testing and conducting first year sample collection, testing, and biosecurity plan review. |
| 2017-present | Member of the UHM/CTAHR Livestock Extension Group focusing on the needs of various livestock sectors in Hawaii. |
| 2017-present | Hawaii State 4-H Livestock Council volunteer. Assists with the Hawaii State 4-H Livestock Show and Sale at the Farm Fair; provides animal health screening and care; interacts with public to educate them about animals, their value to the community, and other animal issues; reviews student record books and animal project books. |
| 2016-present | Provide back-up necropsy services and consultation for the Hawai‘i Department of Agriculture. Work has included animal necropsy, case management, and providing technical information and advice in areas of biosecurity, disinfection, carcass disposal, histology special stains, shipping of infectious materials, and diagnostic tests. |
| 2019 | Kauai Sheep Parasite Management Workshop, Kapaa, HI. Co-presented workshop with County Livestock Agent and local veterinarian to train producers on parasite assessment in animals, fecal egg counts, and management practices. 23 participants. 7/25/19 |
| 2019 | Veterinary Sciences Camp, Hilo, HI. Provided two workshop days consisting of lecture and hands-on activities covering veterinary science topics such as gastrointestinal anatomy, nutrition, feed labels, posology, parasitology, clinical/hospital practical skills, and dentistry. 13 intermediate school student participants. 7/17-7/19/19 |
| 2019 | VSGP Workshop, Poultry Health, Waimea, Kauai, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with poultry. Featured presenter was Dr. Annika McKillop. 5 participants. 6/1/19 |
| 2019 | VSGP Lecture, Poultry Health and Management, Lihue, Kauai, HI. Organized and presented a lecture featuring Dr. Annika McKillop open to the public discussing various aspects of poultry health and management. 8 participants. 5/31/19 |
| 2019 | VSGP Workshop, Poultry Health, Kurtistown, Hawaii Island, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with poultry. Featured presenter was Dr. Annika McKillop. 7 participants. 5/30/19 |
| 2019 | VSGP Lecture, Poultry Health and Management, Hilo, Hawaii Island, HI. Organized and presented a lecture featuring Dr. Annika McKillop open to the public discussing various aspects of poultry health and management. 63 participants. 5/30/19 |
| 2019 | VSGP Workshop, Poultry Health, Makawao, Maui, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with poultry. Featured presenter was Dr. Annika McKillop. 6 participants. 5/29/19 |
| 2019 | VSGP Lecture, Poultry Health and Management, Makawao, Maui, HI. Organized and presented a lecture featuring Dr. Annika McKillop open to the public discussing various aspects of poultry health and management. 10 participants. 5/29/19 |
| 2019 | VSGP Workshop, Poultry Health, Wahiawa, Oahu, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with poultry. Featured presenter was Dr. Annika McKillop. 9 participants. 5/28/19 |
| 2019 | VSGP Lecture, Poultry Health and Management, Pearl City, Oahu, HI. Organized and presented a lecture featuring Dr. Annika McKillop open to the public discussing various aspects of poultry health and management. 9 participants. 5/28/19 |
| 2019 | Agriculture Day at the Capitol, Prepared fact sheet demonstrating the importance of the Western Intercollegiate Commission for Higher Education’s Professional Student Exchange Program in veterinary medicine and the profession itself. Provided information about Animal Traceability and Rat Lungworm Disease and promoted CTAHRs extension and education programs to hundreds of public members including legislators and their staff. 2/6/19 |
| 2019 | Swine Health and Management, Kauai Swine Day, Kapaa, HI. With the Swine Extension Specialist and the County Livestock Agent, presented information related to Pork Quality Assurance and swine health issues. Demonstrated fecal parasite examination to 4 producer participants. 2/2/19 |
| 2018 | Kauai Piggery Health and Nutrition Workshop, Waimea, HI. With the Conservation Specialist and the County Livestock Agent, presented information relevant to pig health, biosecurity, rules/regulations, and nutrition to 15 participants.11/27/18 |
| 2018 | HDOA/USDA Accreditation, Aiea, HI. Presented information regarding the Veterinary-Client-Patient Relationship, Veterinary Feed Directives, and reportable diseases to 10 veterinarians. 10/5/18 |
| 2018 | Developed a commercially-available diagnostic real-time PCR test for *Angiostrongylus cantonensis* (Rat Lungworm) in dogs and horses, using the services of the University of California at Davis – Real-time PCR Research & Diagnostics Core Facility. This test enabled the definitive diagnosis of Rat Lungworm Disease in two dogs on Oahu (the first in the state and nation). |
| 2018 | Swine Artificial Insemination Workshop, Hilo, HI. Sponsored by Hawai‘i Pork Industry Association and Pork Checkoff. Supported the Swine Extension Specialist at this event to answer any anatomy, reproductive, or disease questions that producer participants had. 8/11/18 |
| 2018 | Pig Parasite Workshop, Aiea, HI. Sponsored by Hawai‘i Pork Industry Association and Pork Checkoff. 6 participants. Provided information about swine parasites and conducted a workshop examining feces for common parasites. 7/28/18 |
| 2018 | VSGP Workshop, Small Ruminant Health, Koloa, Kauai, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with sheep. Clinical evaluation, reproductive ultrasound, and sample collection demonstrated. Featured presenter was Dr. David Pugh. 7 participants. 6/15/18 |
| 2018 | VSGP Lecture, Small Ruminant Health, Lihue, Kauai, HI. Organized and presented a lecture featuring Dr. David Pugh open to the public discussing various aspects of small ruminant health and management. 21 participants. 6/14/18 |
| 2018 | VSGP Workshop, Small Ruminant Health, Honokaa, Hawai‘i Island, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with sheep. Clinical evaluation, reproductive ultrasound, and sample collection demonstrated. Featured presenter was Dr. David Pugh. 4 participants. 6/13/18 |
| 2018 | VSGP Lecture, Small Ruminant Health, Kamuela, Hawai‘i Island, HI. Organized and presented a lecture featuring Dr. David Pugh open to the public discussing various aspects of small ruminant health and management. 15 participants. 6/13/18 |
| 2018 | VSGP Workshop, Small Ruminant Health, Makawao, Maui, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with sheep. Clinical evaluation, reproductive ultrasound, and sample collection demonstrated. Featured presenter was Dr. David Pugh. 7 participants. 6/12/18 |
| 2018 | VSGP Lecture, Small Ruminant Health, Makawao, Maui, HI. Organized and presented a lecture featuring Dr. David Pugh open to the public discussing various aspects of small ruminant health and management. 31 participants. 6/12/18 |
| 2018 | VSGP Lecture, Small Ruminant Health, Pearl City, Oahu, HI. Organized and presented a lecture featuring Dr. David Pugh open to the public discussing various aspects of small ruminant health and management. 32 participants. 6/11/18 |
| 2018 | VSGP Workshop, Small Ruminant Health, Wahiawa, Oahu, HI. Organized and presented a hands-on workshop for veterinarians and paraprofessionals working with goats. Clinical evaluation, reproductive ultrasound, and sample collection demonstrated. Featured presenter was Dr. David Pugh. 9 participants. 6/11/18 |
| 2018 | Rat Lungworm in Dogs and Other Species, Honolulu, HI. Organized a lecture for veterinarians about the emerging Rat Lungworm parasite featuring Dr. Richard Malik. 33 participants. 5/3/18 |
| 2018 | Surveyed veterinarians (statewide) about their experiences with Rat Lungworm Disease over the past 12 months and over the duration of their career. This information was compiled and reported to the HVMA and Hawaii State Legislature. April 2018 |
| 2018 | Surveyed veterinarians (statewide) about their interest in providing services to food animals, and specific topics of interest or need for further education. April 2018 |
| 2018 | Surveillance of Swine in Hawai‘i, The Swine Medicine Talks, AASV/SMECast Series for Veterinary Students, Ames, Iowa. Invited to speak to veterinary students at schools across the US via live audio/video stream. 3/26/18 |
| 2018 | 4H Swine Workshop, Wahiawa, Oahu, HI. Joint effort educating students on different aspects of swine health, 10 participants. 2/24/18 |
| 2018 | Ag Day at the Capitol, Honolulu, HI. Prepared fact sheet demonstrating the importance of the Western Intercollegiate Commission for Higher Education’s Professional Student Exchange Program in veterinary medicine and the profession itself. 2/15/18 |
| 2018 | Ag Awareness Day, Pearl City, HI. Educated ~500 local 5th grade students about animal sciences in Hawai‘i. 2/9/18. |
| 2017 | Sheep/Goat Health Workshop: Parasites and More! Organized and co-presented with private practitioner and HDOA VMO. Discussed biosecurity, Scrapie regulations, parasites, and conducted FAMACHA training. 15 participants, Pearl City, HI. 8/19/17 |
| 2017 | Molokai Swine Health Lecture and Workshop, Hoolehua, HI. Co-presented with visiting veterinarian and Swine Extension Specialist about swine diseases. Examined skin scrapings to demonstrate presence of swine louse. June 2017 |
| 2017 | Maui Swine Health Lecture, Kahului, HI. Co-presented with visiting veterinarian and Swine Extension Specialist about swine diseases. June 2017 |
| 2017 | Bee Workshop for Veterinarians, 10 participants, Honolulu, HI. Organized and co-presented with UH Bee Program about bee anatomy, diseases, and regulations for veterinarians. 3/26/17 |
| 2017 | Boy Scouts of America, Aloha Council, Veterinary Medicine merit badge workshop, Aiea, HI. 20 scouts attended. 3/11/17 |
| 2017 | Oahu County 4H Leader Meeting, Pearl City, HI. Presented information regarding the Veterinary Feed Directive to Oahu 4H group leaders, 6 participants. 2/28/17 |
| 2017 | Animal Sciences program presentation to 15 H.P. Baldwin High School students, Honolulu, HI. Discussed the importance of animal products and husbandry in many aspects of daily living. 2/22/17 |
| 2017 | Animal Health portion of the Pork Quality Assurance Plus Workshop, Kapaa, HI. 2/4/17 |
| 2017 | Maui Cattlemen’s Association Meeting, Pukalani, HI. Presented information regarding the Veterinary Feed Directive to ~20 Maui cattle ranchers and stakeholders. 1/31/17 |
| 2017 | “Biosecurity for Commercial Poultry” lecture, Hawai‘i Poultry Quality Assurance Workshop, Honolulu, HI. UH Extension, HDOA, and all commercial poultry producers attended. 1/20/17 |
| 2017 | Animal Health portion of the Pork Quality Assurance Plus Workshop, Pearl City, HI. 1/14/17 |
| 2017 | “VFD for Veterinarians” talk, Hawai‘i Department of Agriculture/USDA Veterinary Accreditation Training, Aiea, HI. Discussed the new rules regarding use of antimicrobials in animal feed, the Food Animal Residue Avoidance Database (FARAD), and the veterinary-client-patient relationship. 1/13/17 |
| 2016 | 4H Youth Quality Assurance Training, Hilo, HI. Conducted training on animal identification and drug residue avoidance. 11/16 |
| 2016 | Hawai‘i Cattlemen’s Council Annual Meeting, Waikoloa, HI. Informational booth, including information on the upcoming Veterinary Feed Directive changes. 11/18-11/19/16 |
| 2016 | Hawai‘i Veterinary Medical Association Annual Meeting, Honolulu, HI. Informational booth presenting Veterinary Feed Directive information to local veterinarians. 11/11-11/13/16 |
| 2016 | Hawai‘i Pork Industry Association Necropsy Workshop, Aiea, HI. Demonstrated necropsy of pigs and discussed common diseases and management with ~10 Oahu pork producers. 11/5/16 |
| 2016 | Natural Farming Workshop, Hilo, HI. Presented information on veterinary extension and the Veterinary Feed Directive. 10 participants. 10/11/16 |
| 2016 | Mealani’s Taste of the Hawaiian Range, Veterinary Extension Poster/Exhibit, Waikoloa, HI. Presented information about Veterinary Extension, Cooperative Extension, and the Veterinary Feed Directive. 9/9/16 |
| 2009 | “Animal Health and Current Swine Problems” presentation, Hawai‘i Pork Industry Association Meeting, Aiea, HI. 2/09 |

**Extension Resources and Publications:**

Website: https://www.hivetextension.com/

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| 2019 | In preparation: update of Stevenson, M.H. Stokes, A.M., & McNeal, L. *An Introduction to Sheep and Goat Parasite Management in Hawai‘i*. College of Tropical Agriculture and Human Resources, Honolulu, HI. Specifically revising the section on deworming protocols. |
| 2019 | In review process: **Odani, J.**, McKillop, A.L, & Stokes, A.M. *Backyard Poultry Basics for Hawaii.* College of Tropical Agriculture and Human Resources, Honolulu, HI. |
| 2019 | Completed but not yet released (video). *A Veterinary Perspective of Rat Lungworm Disease*. College of Tropical Agriculture and Human Resources, Honolulu, HI. The College intends to release these rat lungworm outreach materials as one comprehensive unit. |
| 2019 | Completed but not yet released (video). *Rat Lungworm Disease for Dog Owners*. College of Tropical Agriculture and Human Resources, Honolulu, HI. |
| 2019 | In preparation: Caires, K., **Odani, J.**, Mishra, B., DuPonte, M., Stevens, L., & Fergerstrom, M. *Selection of an Extender for Bull Sperm Cryo-preservation for Artificial Insemination.* College of Tropical Agriculture and Human Resources, Honolulu, HI. |
| 2019 | Submitted for final review: Caires, K., Mishra, B., DuPonte, M., Fergerstrom, M., **Odani, J.**, & Stevens, L. *Setting the Standards for Semen Collection of Bulls from the Mealani Research Station*. College of Tropical Agriculture and Human Resources, Honolulu, HI. |
| 2019 | In preparation: Castle, B.A., Zaleski, H.M., & **Odani, J.** *Swine Disease Summaries for the Hawai‘i Producer*. An expansion of the 2017 Swine Health Surveillance flyer (as requested by several producers) to help with understanding the diseases threatening their herd, biosecurity, and how to communicate with extension and other resources to respond to disease problems. |
| 2019  VE-2 | **Odani, J.**, Cowie, R., Jarvi, S., & Malik. R. *Rat Lungworm Disease for the Veterinary Professional*. Information about the emerging zoonotic pathogen, *Angiostrongylus cantonensis*, its life cycle, modes of transmission, diagnosis, and treatment. |
| 2019  P&P-3 | Mogren, C. & **Odani, J.** 2019. *Compliance with Beekeeping Laws in Hawai*‘*i*. College of Tropical Agriculture and Human Resources, Honolulu, HI. An expanded collection of regulations concerning beekeeping, including veterinary roles. |
| 2018 | *Rat Lungworm Survey of Hawai*‘*i Veterinarians*. Summary of the experiences of Hawaii veterinarians with Rat Lungworm Disease. Written for and submitted to the HVMA per Hawai‘i House Resolution 195, Regular session 2018. |
| 2018 | *Animal Disease Traceability Manual*. This manual was produced as part of an HDOA contract to document the state’s current mechanisms of animal identification and traceability. A report on gaps and areas of need was also submitted to the state veterinarian. |
| 2018  LM-33 | Castle B.A., Primavera T.G., **Odani, J.S.**, Heskett T.W., and Zaleski H.M. 2018. *Biosecurity Procedures for Visits to Swine Farms*. College of Tropical Agriculture and Human Resources, Honolulu, HI. In press. This document was primarily drafted by B. Castle (Graduate Student) based on procedures I developed while employed at the Hawai‘i Department of Agriculture. |
| 2018  VE-1 | **Odani, J.** 2018. *Veterinary Feed Directive*. College of Tropical Agriculture and Human Resources, Honolulu, HI. Provided producers and veterinarians with a handout and brochure versions of simplified summaries of the new rules regarding use of antimicrobials in animal feed and the role of the veterinarian. |
| 2017 | *Bee FAQs for Veterinarians*. Provided veterinarians with a simplified version of rules for working with bee exporters and producers in Hawai‘i to ensure that all rules are met and biosecurity risks are minimized. |
| 2017 | *Breeding Soundness Evaluation Record Sheet for Rams*. Provided guidelines for how to do a complete BSE on rams. |
| 2017 | *Swine Health Surveillance Flyer*. This short document summarized the diseases featured in the Swine Surveillance project. |

**Instructional Activities: (0.35 FTE)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **List of Courses Taught at the University of Hawai‘i at Mānoa** | | | | |
| **Sem./Year** | **Course No.** | **Course Title** | **Credits** | **# of Stud.** |
| Fall 2020 | ANSC 301 | Anatomy of Domestic Animals | 3 | 33 |
| Fall 2020 | ANSC 301L Section 1 | Anatomy of Domestic Animals Lab  \*\*Writing Intensive\*\* Online | 1 | 19 |
| Fall 2020 | ANSC 301L Section 2 | Anatomy of Domestic Animals Lab  \*\*Writing Intensive\*\* In Person | 1 | 12 |
| Fall 2020 | ANSC 492 | Field Experience | 4 | 6 |
| Fall 2019 | ANSC 301 | Anatomy of Domestic Animals | 3 | 33 |
| Fall 2019 | ANSC 301L | Anatomy of Domestic Animals Lab  \*\*Writing Intensive\*\* | 1 | 33 |
| Spring 2019 | ANSC 453 | Animal Diseases and Their Control | 3 | 32 |
| Fall 2018 | ANSC 301 | Anatomy of Domestic Animals | 3 | 26 |
| Fall 2018 | ANSC 301L | Anatomy of Domestic Animals Lab | 1 | 25 |
| Spring 2018 | ANSC 453 | Animal Diseases and Their Control | 3 | 22 |
| Fall 2017 | ANSC 301 | Anatomy of Domestic Animals | 3 | 38 |
| Fall 2017 | ANSC 301L | Anatomy of Domestic Animals Lab | 1 | 37 |
| Spring 2017 | ANSC 491 | Special Topic: Histology | 2 | 5 |
| Fall 2016 | ANSC 301 | Anatomy of Domestic Animals | 3 | 32 |
| Fall 2016 | ANSC 301L | Anatomy of Domestic Animals Lab | 1 | 32 |
| Fall 2015\* | ANSC 301 | Anatomy of Domestic Animals | 3 | 31 |
| Fall 2014\* | ANSC 301 | Anatomy of Domestic Animals | 3 | 34 |
| Fall 2013\* | ANSC 301 | Anatomy of Domestic Animals | 3 | 32 |
| Fall 2013\* | ANSC 301L | Anatomy of Domestic Animals Lab | 1 | 32 |
| Fall 2012\* | ANSC 301 | Anatomy of Domestic Animals | 3 | 31 |
| Fall 2012\* | ANSC 301L | Anatomy of Domestic Animals Lab | 1 | 31 |
| Fall 2011\* | ANSC 301 | Anatomy of Domestic Animals | 3 | 19 |
| Fall 2011\* | ANSC 301L | Anatomy of Domestic Animals Lab | 1 | 19 |
| Fall 2008\* | ANSC 453 | Animal Diseases and Their Control | 3 | 13 |

\*These courses were taught prior to my faculty appointment; I taught these courses as a Lecturer.

**Student Advising:**

|  |  |  |  |
| --- | --- | --- | --- |
| 2019 | MS Animal Sciences | Nathan Heinzman Comm. Chair | Small Ruminant Health Surveillance |
| 2020 | MS Animal Sciences | Kathryn Paradis Comm. Chair | Poultry Health and Management Surveillance |
| 2019 | MS Animal Sciences | Sanjeev Wasti  Comm. Member | Effects of Heat Stress on the Reproductive Tract of Chickens and Strategies for Mitigation. |
| active | MS Animal Sciences | Ratu Serupepeli Tagivakatini  Comm. Chair | Disease Management Program for Hawaii’s Commercial and Backyard Chickens |
| 2019 | PhD Nutrition | Amit Singh  Comm. Member | Improving Broiler Performance and Gut Health by *in ovo* and Post-hatch Nutritional Intervention Using Exogenous Enzyme and Prebiotics |
| 2018 | PhD Nutrition | Utsav Tiwari  Comm. Member | Characterization of Alternative Feedstuffs and Enhancing their Utilization in Pigs |
| 2017 | MS Animal Sciences | Danita Dahl  Comm. Member | Optimization of Copepods as a Live Food for Hawaii Larval Shrimp Culture |
| 2017 | MS Animal Sciences | Brittany Castle  Comm. Member | Swine Health and Management Surveillance in Hawai‘i (graduated) |
| 2016 | MS Animal Sciences | Naomi Ogasawara Comm. Member | Swine Health Surveillance in Hawai‘i (graduated) |
| 2016 | Interdisciplinary Studies, BS | May Nachum | Animal Behavior (graduated) |
| 2016 | Interdisciplinary Studies, BS | Threnody Brown Earley-Clark | Pre-veterinary medicine focus (graduated) |
| 2016 | ANSC 492 Internship Mentor | Stefanie Date | Field Experience in Veterinary Laboratory Diagnostics and Histology (graduated) |
| 2015 | MS Animal Sciences | Britt McNeill | Prevalence of *Brucella suis* in Hunting Dogs (graduated) |
| 2015 | BS Biology Honors Thesis Mentor | Ashley Nakaoka | Giardiasis in Dogs (graduated) |
| 2014 | MS Animal Sciences | Brandy Stewart | Leptospirosis Presence in Oahu Dog Population (graduated) |

Directed Reading & Research and Thesis Research Credits Taught Since Fall 2016

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Term | Course# | Course Title | #Credits | #Students | CTAHR Eq\* |
| Fall 2020 | ANSC 499 | Directed Reading & Res. | 9 | 5 | 0.9 credits |
| Fall 2020 | ANSC 699 | Directed Reading & Res. | 3 | 1 | 0.6 credits |
| Spring 2020 | ANSC 499 | Directed Reading & Res. | 3 | 2 | 0.3 credits |
| Spring 2020 | ANSC 699 | Directed Reading & Res. | 4 | 2 | 0.8 credits |
| Fall 2019 | ANSC 499 | Directed Reading & Res. | 18 | 10 | 1.8 credits |
| Fall 2019 | ANSC 699 | Directed Reading & Res. | 9 | 4 | 1.8 credits |
| Credits 2018-2019 = 4.9 | | | | | |
| Spring 2019 | ANSC 499 | Directed Reading & Res. | 4 | 2 | 0.4 credits |
| Spring 2019 | ANSC 699 | Directed Reading & Res. | 9 | 3 | 1.8 credits |
| Fall 2018 | ANSC 499 | Directed Reading & Res. | 19 | 9 | 1.9 credits |
| Fall 2018 | ANSC 699 | Directed Reading & Res. | 4 | 1 | 0.8 credits |
| Credits 2017-2018 = 2.7 | | | | | |
| Spring 2018 | ANSC 499 | Directed Reading & Res. | 3 | 3 | 0.3 credits |
| Spring 2018 | ANSC 699 | Directed Reading & Res. | 4 | 2 | 0.8 credits |
| Fall 2017 | ANSC 499 | Directed Reading & Res. | 14 | 6 | 1.4 credits |
| Fall 2017 | ANSC 699 | Directed Reading & Res. | 1 | 1 | 0.2 credits |
| Credits 2016-2017 = 1.2 | | | | | |
| Spring 2016 | ANSC 499 | Directed Reading & Res. | 2 | 2 | 0.2 credits |
| Fall 2016 | ANSC 499 | Directed Reading & Res. | 10 | 5 | 1.0 credits |

**Other Advising Activities:**

As the **Pre-veterinary Medicine Program co-advisor**, I conducted 209 pre-veterinary school advising sessions (via email, phone, or in-person) from August 2016 to August 2019. As of April 2020, 23 students have been accepted to AVMA-accredited veterinary colleges.

2019-20 Pre-veterinary Program Information Seminars held in concert with Pre-Vet Club meetings. Conducted one seminar thus far.

2018-19 Pre-veterinary Program Information Seminars (series). Conducted six seminars to provide information directly to pre-vet students regarding the veterinary school admissions path including program selection, costs, pre-requisites, application process, GRE, interviews, personal statements, internships, and more.

2017-18 Pre-veterinary Program Information Seminars (series). Conducted seven seminars providing information regarding the veterinary school admissions path including choosing a school, costs, pre-requisites, and more.

**Guest Lectures (Instructional Courses):**

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| --- | --- |
| 2020 | “Necropsy Techniques for Veterinary Technicians” lecture and wet lab. Windward Community College, Animal Science 151, Clinical Laboratory Techniques, Kaneohe, HI. Two lab sessions, 3 credits, 12 students, 11/20/2020. |
| 2020 | “Molecular Diagnostics in Animals” lecture. PEPS 627, Molecular Diagnostics: Principles and Practices, 3 credits, 4 students, 11/17/2020. |
| 2020 | “Sheep and Goat Basics,” ANSC 201, 3 credits, 3/10 & 3/12/20 |
| 2019 | “Necropsy and Histology Techniques for Veterinary Technicians” lecture and wet lab, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI, 2 lab sessions, 3 credits, 12/10-12/11/19 |
| 2018 | “Necropsy and Histology Techniques for Veterinary Technicians” lecture and wet lab, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI, 2 lab sessions, 3 credits, 11/1/18 |
| 2018 | “Other Careers in Veterinary Medicine” lecture, University of Hawai‘i at Mānoa, ANSC 200, Humans, Animals, and Agriculture, 3 credits, 48 students, 10/31/18 |
| 2018 | “Biosecurity and Regulations for Poultry Producers” lecture, University of Hawai‘i at Mānoa, ANSC 491, Special Topic: Poultry Production, 3 credits, 6 students, 10/30/18 |
| 2018 | “Central Nervous System” and “Autonomic Nervous System” lectures, University of Hawai‘i at Mānoa, ANSC 451, Physiology of Domestic Animals, 3 credits, 26 students. 1/23-1/25/18 |
| 2017 | “Necropsy Techniques for Veterinary Technicians” lecture and wet lab, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI, 2 lab sessions, 3 credits. 9/27-9/29/17 |
| 2016 | “Necropsy Techniques for Veterinary Technicians” lecture and wet lab, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI, 2 lab sessions, 3 credits. 11/2-11/3/16 |
| 2016 | “Diseases of Aquatic Organisms” lecture, University of Hawai‘i at Mānoa, ANSC 453, Animal Diseases Course, Honolulu, HI. 10/25/16 |
| 2001-2016 | “Survey of Zoonotic Diseases”, University of Hawai‘i at Mānoa, ANSC 453, Animal Diseases Course, Honolulu, HI. 2011-2016 |
| 2016 | “Necropsy and Histology Techniques for Veterinary Technicians” lecture and wet lab, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI. November 2015 |
| 2013 | “Necropsy and Histology Techniques for Veterinary Technicians”, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI. October 2013 |
| 2010 | “Necropsy and Histology Techniques for Veterinary Technicians” lecture and wet lab, Windward Community College, Animal Science 151, Clinical Laboratory Techniques Course, Kaneohe, HI. April 2010 |

**Grants Awarded:**

|  |  |
| --- | --- |
| 1. | Co-PI. *Application of Genetic and Reproduction Technologies to Improve Hawaii Grass-fed Beef Cattle Production*. CTAHR Team Science, $80,000. PI: Jinzeng Yang. I will be responsible for developing the biosecurity and health management protocols for project animals. |
| 2. | PI. *Diagnosing Prevalent Diseases in Aquacultured Fish. Center for Tropical and Subtropical Aquaculture*. 9/1/19-8/31/20. $74,439. Research grant to investigate the disease status of local aquacultured fish, primarily focusing on emerging or other significant (e.g., regulatory) diseases. |
| 3. | Co-PI. *The Hawai‘i Egg Quality Assurance Education and Implementation Program Phase II NPIP: the use of Local Surveillance and Analysis for Hawai‘i’s Poultry Industry*. Hawai‘i Department of Agriculture (HDOA). 7/1/18-7/1/20. $81,730. PI: Michael Duponte. My role in this project is to work with HDOA to develop the rules and protocols for the state’s participation in the National Poultry Improvement Program (NPIP) and to oversee the training of a graduate student to educate producers, collect samples, and conduct pathogen surveillance testing. |
| 4. | Co-PI. *Artificial Insemination as a Tool to Improve Livestock Genetics in Hawai‘i County*. County of Hawai‘i, Department of Research and Development. 10/1/18-9/30/19. $8,000. PI: Michael Duponte. My role is to help develop the biosecurity and testing protocols to ensure the high health status of the donor bulls. |
| 5. | PI. *Hawai‘i Animal Disease Traceability Database Practices and Procedures Report*. Hawai‘i Department of Agriculture. 4/13/18-6/30/18. $5,665. Analyzed current animal identification and traceability practices in the Animal Industry Division (HDOA) and create a written manual for use in training. Analyzed gaps and needs within the current program |
| 6. | PI. *A Shrimp Disease Diagnostic Laboratory for Hawai‘i*. Center for Tropical and Subtropical Aquaculture. 12/1/18-11/30/19. $50,000. This important project seeks to develop a USDA-approved laboratory for conducting shrimp pathogen testing. Hawai‘i’s multi-million-dollar industry in exporting SPF shrimp broodstock requires that the shrimp be free of current OIE-listed diseases and many other emerging diseases. |
| 7. | PI. *A Shrimp Disease Diagnostic Laboratory for Hawai‘i.* Hawai‘i Department of Agriculture. 2/15/18-6/30/19. $60,000. Same purpose as above. |
| 8. | PI. *Small Ruminant Health Surveillance*. Supplemental funding, Hatch 2050H/Smith Lever 14-209. 10/1/17-9/30/19. $61,000. This project seeks to study the management and health status of small ruminant herds in the state. A special focus is on anthelmintic resistance of internal parasites. Graduate student recruited in January 2018. |
| 9. | PI. *Turning All Veterinarians into Food-Animal Veterinarians through Focused Continuing Education*. USDA, NIFA, Veterinary Services Grant Program. 10/1/17-9/30/20. $169,304. Three-year project to provide 5 series of continuing education for veterinarians in food animal medicine/surgery. The goal is to increase and improve veterinary services for food animals in the state of Hawai‘i. |

**Grants, Pre-proposal Accepted:**

1. PI. *Enhanced Disease Surveillance and Biosecurity for Hawai‘i’s SPF Shrimp Broodstock Industry*. Center for Tropical and Subtropical Aquaculture. $50,000. Research grant to investigate the disease status of local aquacultured shrimp, primarily focusing on general health screening, parasites, and emerging or other significant (e.g., regulatory) diseases. This project also aims to screen imported feed components for shrimp pathogens.

**Grants, Submitted:**

|  |  |
| --- | --- |
| 1. | (Preproposal) PI. *Advancing Aquatic Animal Disease Diagnostics*. CTSA. 2020. |

**Grants, Not Awarded:**

1. Co-PI. *Elucidation of Broad Host Range and Rapid Diagnostic Assay for the Study of SARS-CoV-2 in Livestock*. USDA/AFRI, $1,005,826. 2020. PI: Daniel Jenkins.
2. Co-PI. *Assessment of Ovarian Tumors in Cattle*. CTAHR, Animal Health Program, $24,000. 2019. PI: Birendra Mishra.
3. Co-PI. *The Impact of Reduced Cage Change Frequency on Breeding Performance and Health of Breeding Mice and Mice Housed at Maximum Density in Ventilated Cages*. AALAS, $7.499.97. 2020. PI: Sylvia Kondo.
4. Co-PI. *State-wide Survey of Copper Status of Cattle in Hawaii*. CTAHR Team Science, $78,571. 2019. PI: Savannah Katulski.
5. Co-PI. *Science and the Citizen: Re-visioning Research Stations as Centers of Learning*. CTAHR Team Science, $30,000. 2019. PI: Theodore Radovich.
6. Co-PI. *Enhancing the Utilization of Food Wastes for Economical, Healthy, and Sustainable Swine Production*. USDA, NIFA, Western Sustainable Agriculture Research and Education. $235,172. 2018. PI: Rajesh Jha.
7. Co-PI. *Developing Sustainable Poultry Production Systems in Hawai‘i*. USDA, NIFA, Western Sustainable Agriculture Research and Education.” $49,971. 2017. PI: Rajesh Jha.
8. Co-PI. *Sustainable and Healthy Poultry Production in Hawai‘i*. UH Vice Chancellor of Research Strategic Investment Proposals. $105,292. 2017. PI: Rajesh Jha.
9. PI. *Serosurveillance of Feral Swine in Maui County: Filling the Gap*. Maui County Grant. $3,017. 2017.
10. PI. *Validation and Application of a PCR assay for Rat Lungworm Infection in Dogs and Cats in Maui County*. Maui County Grant. Validation and application of a PCR assay for Rat Lungworm infection in dogs and cats in Maui County. $12,364. 2017.
11. Co-PI. *University of Hawai‘i Animal Production Fellowship Program* (for 3 M.S. graduate students). National Needs Fellowship. USDA-NIFA. $123,000. 2016. PI: Halina Zaleski.

**Refereed Journal Publications:**

**Articles in Refereed Journals (Since Joining UHM):**

(1) indicates corresponding author. The authorship guidelines in my field place the principal investigator last, if they are not leading the writing. The author leading the development and writing of the article is placed first. My name is highlighted in **bold**. Note: My maiden name is Mukai and was used prior to 2002. InCites Journal Citation Reports impact factors are listed for the year the journal was published and also in 2018 (the most current available). Number of citations based on Google Scholar summary. \* Denotes graduate/undergraduate student.

1. Cadmus, K., Mete, A., Harris, M., Anderson, D., Sato, Y., Helm, J., Boger, L., **Odani, J.**, Ficken, M., Pabilonia, K.1 (2019). Causes of mortality in backyard poultry in eight states in the United States. *Journal of Veterinary Diagnostics Investigation,* 31(3):318-326*.* 
   1. Journal Impact Factor: 1.174 (2018); Number of times cited: 1
   2. Contribution (10%): provided case material and critical review of manuscript. Authorship order for this publication was based on number of cases submitted and lead author in the past position.
2. Accepted, in press: **Odani, J.1**, Sox, E., Coleman, W., Jha, R., Malik, R. First documented cases of canine neuroangiostrongyliasis due to *Angiostrongylus cantonensis* in Hawai‘i. *Journal of the American Animal Hospital Association*. Contribution (70%): Lead author.
3. Submitted: Calle, A.F., Wu, B., **Odani, J.S**., Duponte, M.W., Li, Yong. Development of *Salmonella* testing capacity for the Hawaii egg and poultry industry. Contribution (25%): project conception, permit acquisition, liaison with USDA/NPIP, and writing/review of manuscript. Submitted to *Pacific Agriculture and Natural Resources*.
4. Submitted: Yamasaki, L.S., Iwai, T., Klinger-Bowen, R., Weese, D., **Odani, J.**, Wong, M. Geographic distribution of *Francisella noatunensis* subspecies *orientalis* and genetic assessment of feral populations of tilapia in Hawaii. Contribution (20%): project conception, necropsy, histology, and critical review of manuscript.

**Articles in Refereed Journals (Before Hire)**

1. Diab, S.S., Kinde, H., Moore, J., Shahriar, M.F., **Odani, J.**, Anthenill, L., Songer, G., Uzal, F.A. (2012). Pathology of *Clostridium perfringens* Type C Enterotoxemia in Horses. *Veterinary Pathology*, 49(2):255-263.
   1. Journal Impact Factor: 1.929/2.116 (2018); Number of times cited: 48
   2. Contribution (10%): provided case material and critical review of manuscript.
2. Diab, S., Pascoe, J., Shahriar, M., Read, D., Kinde, H., Moore, J., **Odani, J.**, Uzal, F. (2009). Study of laryngopharyngeal pathology in Thoroughbred horses in southern California. *Equine Veterinary Journal*, 41(9):903-907.
   1. Journal Impact Factor: 2.285/2.115 (2012/2018); Number of times cited: 7
   2. Contribution (10%): provided case material and critical review of manuscript.
3. **Odani, J.S.1**, Blanchard, P.C., Adaska, J.M., Moeller, R.B., Uzal, F.A. (2009). Malignant edema in postpartum dairy cattle. *Journal of Veterinary Diagnostic Investigation*, 21(6):920-924.
   1. Journal Impact Factor: 1.546/1.174 (2009/2018); Number of times cited: 12
   2. Contribution (70%): lead author.
4. Uzal, F. A.1, Houston, R. S., Riley, S. P. D., Poppenga, R., **Odani, J.**, Boyce, W. (2007). Notoedric mange in two free-ranging mountain lions (*Puma concolor*). *Journal of Wildlife Diseases*, 43(2), 274-278.
   1. Journal Impact Factor: 1.013/1.150 (2008/2018); Number of times cited: 15
   2. Contribution (10%): provided case material and critical review of manuscript.
5. Ortega, J.1, Daft, B., Assis, R.A., Kinde, H., Anthenill, L., **Odani, J.**, Uzal, F.A. (2007). Infection of internal umbilical remnant in foals by *Clostridium sordellii*. *Veterinary Pathology*, 44(3), 269-75.
   1. Journal Impact Factor: 1.372/2.116 (2007/2018); Number of times cited: 22
   2. Contribution (10%): provided case material and critical review of manuscript.
6. Anthenill, L.A.1, Stover, S.M., Gardner, I.A., Hill, A.E., Lee, C.M., Anderson, M.L., Barr, B.C., Read, D.H., Johnson, B.J., Woods, L.W., Daft, B.M., Kinde, H., Moore, J.D., Farman, C.A., **Odani, J.S.**, Pesavento, P.A., Uzal, F.A., Case, J.T., Ardans. A.A. (2006). Association between findings on palmarodorsal radiographic images and detection of a fracture in the proximal sesamoid bones of forelimbs obtained from cadavers of racing Thoroughbreds. *American Journal of Veterinary Research*, 67(5):858-68.
   1. Journal Impact Factor: 1.241/1.070 (2006/2018); Number of times cited: 26
   2. Contribution (10%): provided case material and critical review of manuscript.
7. Uzal, F.A.1, Woods, L., Stillian, M., Nordhausen, R., Read, D.H., Van Kampen, H., **Odani, J.**, Hietala, S., Hurley, E.J., Vickers, M.L., Gard, S.M. (2004). Abortion and ulcerative posthitis associated with caprine herpesvirus-1 infection in goats in California. *Journal of Veterinary Diagnostic Investigation*, 16(5), 478-484.
   1. Journal Impact Factor: 0.900/1.174 (2004/2018); Number of times cited: 26
   2. Contribution (10%): provided case material and critical review of manuscript.
8. Kinde, H.1, Read, D.H., Daft, B.M., Hammarlund, M., Moore, J.D., Uzal, F.A., **Mukai, J.**, Woolcock, P. (2003). The Occurrence of Avian Influenza A Subtype H6N2 in Commercial Layer Flocks in Southern California (2000-02): Clinicopathologic Findings. *Avian Diseases*, 47:1214-1218.
   1. Journal Impact Factor: 0.975/1.306 (2003/2018); Number of times cited: 57
   2. Contribution (10%): provided case material and critical review of manuscript.

**Peer-Reviewed Technical Papers and Extension Materials (Since Joining UHM):**

1. In preparation: Katulski, S., Thorne, M.S., **Odani, J.S.**, Oshiro, M. Copper Supplementation for Beef Cattle in Hawai‘i. College of Tropical Agriculture and Hum. Resources, Honolulu, HI.

2. In preparation: update of Stevenson, M.H. Stokes, A.M., McNeal, L. An Introduction to Sheep and Goat Parasite Management in Hawai‘i. College of Tropical Agriculture and Human Resources, Honolulu, HI. Specifically revising the section on deworming protocols.

3. In review process: **Odani, J.**, McKillop, A.L, Stokes, A.M. Backyard Poultry Basics for Hawai‘i. College of Tropical Agriculture and Human Resources, Honolulu, HI. Contrib. (70%)

4. A Veterinary Perspective of Rat Lungworm Disease. (2019). College of Tropical Agriculture and Human Resources, Honolulu, HI. The College intends to release this video as part of a rat lungworm media outreach package. Contribution (90%)

5. In preparation: Caires, K., **Odani, J.**, Mishra, B., DuPonte, M., Stevens, L., Fergerstrom, M. Selection of an Extender for Bull Sperm Cryo-preservation for Artificial Insemination. College of Tropical Agriculture and Human Resources, Honolulu, HI. Contribution (10%): project collaborator and critical review of manuscript.

6. In preparation: Caires, K., Mishra, B., DuPonte, M., Fergerstrom, M., **Odani, J.**, Stevens, L. Setting the Standards for Semen Collection of Bulls from the Mealani Research Station. College of Tropical Agriculture and Human Resources, Honolulu, HI. Contribution (10%): project collaborator, section author, and critical review of manuscript.

7. In preparation: Castle, B.A.\*, Zaleski, H.M., **Odani, J.** Swine Disease Summaries for the Hawai‘i Producer. An expansion of the 2017 Swine Health Surveillance flyer (as requested by several producers) to help with understanding the diseases threatening their herd, biosecurity, and how to communicate with extension and other resources to respond to disease problems.

8. **Odani, J.**, Cowie, R., Jarvi, S., Malik. R. Rat Lungworm Disease for the Veterinary Professional. VE-2. Information about the emerging zoonotic pathogen, *Angiostrongylus cantonensis*, its life cycle, modes of transmission, diagnosis, and treatment. Contribution (60%): lead author.

9. Mogren, C. & **Odani, J.** 2019. Compliance with Beekeeping Laws in Hawai‘i. P&P-3. College of Tropical Agriculture and Human Resources, Honolulu, HI. An expanded collection of regulations concerning beekeeping, including veterinary roles. Contribution (20%): section author and critical review of manuscript.

10. **Odani, J.** (on behalf of the HVMA) 2018. Rat Lungworm Survey of Hawai‘i Veterinarians. Summary of the experiences of Hawai‘i veterinarians with Rat Lungworm Disease. Written for and submitted to the HVMA per Hawai‘i House Resolution 225, Regular session 2018. Contribution (90%): lead author.

11. Castle, B.A.\*, Primavera, T.G.\*, **Odani, J.S.**, Heskett, T.W., Zaleski, H.M. 2018. Biosecurity Procedures for Visits to Swine Farms. LM-33. College of Tropical Agriculture and Human Resources, Honolulu, HI. In press. This document was primarily drafted by B. Castle (Graduate Student) based on standard operating procedures I developed while employed at the Hawai‘i Department of Agriculture. Contribution (25%): manuscript conception, author of foundational document, and critical review of manuscript.

12. **Odani, J.** 2018. Veterinary Feed Directive. VE-1. College of Tropical Agriculture and Human Resources, Honolulu, HI. Provided producers and veterinarians with a handout and brochure versions of simplified summaries of the new rules regarding use of antibiotics in animal feed and the role of the veterinarian. Contribution (90%): lead author.

13. Bee FAQs for Veterinarians. Provided veterinarians with a simplified version of rules for working with bee exporters and producers in Hawai‘i to ensure that all rules are met, and biosecurity risks are minimized. Contribution (90%): lead author.

14. Breeding Soundness Evaluation Record Sheet for Rams. Provided guidelines for how to do a complete BSE on rams. Contribution (90%): lead author.

15. Swine Health Surveillance Flyer. This short document summarized the diseases featured in the Swine Surveillance project. Contribution (90%): lead author.

**Technical Papers and Extension Materials (Since Joining UHM):**

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| --- | --- |
| 1. | Completed but embargoed for release until ~10/14/19. Rat Lungworm Disease for Dog Owners (video). 2019. College of Tropical Agriculture and Human Resources, Honolulu, HI. The College intends to release this video as part of a rat lungworm media outreach package. |
| 2. | Rushing, S.\* & **Odani, J.** 2018. HDOA Animal Disease Traceability Manual. This manual was produced as part of an HDOA contract to document the state’s current mechanisms of animal identification and traceability. A report on gaps and areas of need was also submitted to the state veterinarian. Contribution (60%): project conception, organization, and critical review of manuscript. |
| 3. | UH Mānoa Veterinary Extension Website: [www.hivetextension.com](file:///C:\Users\Jenee%20Odani\Dropbox\2019%20Tenure\www.hivetextension.com) |

**Conference Presentation Abstracts Accepted:**

**\*** Denotes graduate student. My name is highlighted in **bold**. Name of speaker is underlined.

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| 1. | **Odani, J.**, Sox, E.M., Coleman, W., Jha, R., Malik, R. *First Documented Cases of Canine Neuroangiostrongyliasis due to Angiostrongylus cantonensis in Hawai‘i*. 6th International Workshop on Angiostrongylus and Angiostrongyliasis, Hilo, HI. 1/20. | |
| 2. | **Odani, J**., *Developing a Shrimp Disease Diagnostic Laboratory in Hawai‘i*. Aquaculture America, Honolulu, HI. 2/20. |
| 3. | Dahl, D.\*, Haverly, S.N., Wagenman, I., Nakamura, T., **Odani, J.**, Yang, J. *Investigation of Copepods as a Live Feed for Hawai‘i Larval Shrimp Culture*. Aquaculture America, Honolulu, HI. 2/20. |

**Refereed Conference Presentations (Since Joining UHM):**

**\*** Denotes graduate student. My name is highlighted in **bold**. Name of speaker is underlined.

|  |  |
| --- | --- |
| 1. | Castle, B.A.\*, **Odani, J.**, Jha, R., Ogasawara, N., Zaleski, H.M. S*urvey of Disease, Management, and Biosecurity Practices of Hawai‘i Swine Farmers*. Poster. Annual American Society of Animal Science and Canadian Society of Animal Science Joint Conference, Vancouver, Canada. 7/10/18. |
| 2. | **Odani, J.**, Zaleski, H.M., Ogasawara, N.\*, Castle B.\* *Swine Serosurveillance in Hawai‘i*. Poster. American Association of Veterinary Laboratory Diagnosticians, San Diego, CA. 10/12-10/18/17. |
| 3. | **Odani, J.,** Zaleski, H.M., Ogasawara, N.\*, Castle, B.\*, Vannucci, F., Heskett, T.W. *Swine Serosurveillance in Hawai‘*i. Oral. Applied Animal and Public Health Research and Extension Symposium, San Diego, CA. 10/14/17. |

**Refereed Conference Presentations (Before Hire)**

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| 1. | **Odani, J.**, Read, D., Daft, B., Kinde, H., Moore, J., Uzal, F., Shivaprasad, H., Chin, R., Rezvani, M., Woolcock, P., McFarland, M.D., Charlton, B., Sommer, F., Zellner, D., Moeller, R., Anderson, M., Barr, B. *Pathology of Exotic Newcastle Disease in Backyard Chickens during the 2002-2003 California Outbreak*. Oral. American Association of Veterinary Laboratory Diagnosticians Annual Conference, San Diego, CA, 10/03. |
| 2. | **Odani, J.**, Read, D., Daft, B., Kinde, H., Moore, J., Uzal, F., Shivaprasad, H., Chin, R., Rezvani, M., Woolcock,, P., McFarland, M.D., Charlton, B., Sommer, F., Zellner, D., Moeller, R., Anderson, M., Barr, B. *Pathology of Exotic Newcastle Disease in Backyard Chickens during the 2002-2003 California Outbreak*. Oral. Western Poultry Disease Conference, Sacramento, CA. 3/8-3/11/03. |

**Invited Extension and Outreach Presentations (Since Joining UHM):**

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| 1. | *Update on Antibiotic Usage for Swine Producers*, Hawaii Park Industry Association, Zoom. 10 participants. 3/28/20 |
| 2 | *Sheep and Goat Parasites*, Kaua‘i Sheep Parasite Management Workshop, Kapaa, HI. Co-presented workshop with County Livestock Agent and local veterinarian to train producers on parasite assessment in animals, fecal egg counts, and management practices. 23 participants. 7/25/19. |
| 3. | *Diagnosis and Clinical Analysis of Mineral Issues in Livestock*, Spring Forage Field Days, Lihue, Makawao, and Waimea, HI. 6/3-6/7/19. |
| 4 | *Livestock Health and Management*, Maui AgPro Professional Development, Wailuku, HI. 10/23/18. |
| 5. | *Veterinary-Client-Patient Relationship, Veterinary Feed Directives, and Reportable Diseases*, HDOA/USDA Accreditation, Aiea, HI. Presented information to 10 veterinarians. 10/5/18. |
| 6. | *Surveillance of Swine in Hawai‘i*, The Swine Medicine Talks, AASV/SMECast Series for Veterinary Students, Ames, IA. Invited to speak to veterinary students at schools across the US via live audio/video stream. 3/26/18. |
| 7. | *VFD for Veterinarians*, Hawai‘i Department of Agriculture/USDA Veterinary Accreditation Training, Aiea, HI. Discussed the new rules regarding use of antibiotics in animal feed, the Food Animal Residue Avoidance Database (FARAD), and the veterinary-client-patient relationship. 1/13/17. |
| 8. | *Basics of Pig Health, Biosecurity, and Feral Pigs*. Swine Health and Management, Kaua‘i Swine Day, Kapaa, HI. Presented information related to Pork Quality Assurance (biosecurity, rules/regulations) and swine health issues. Demonstrated fecal parasite examination to 4 producer participants. 2/2/19. |
| 9. | *Basics of Pig Health, Biosecurity, and Feral Pigs*. Kaua‘i Piggery Health and Nutrition Workshop, Waimea, HI. Presented information relevant to pig health, biosecurity, rules/ regulations, and nutrition to 15 participants. 11/27/18. |

**Invited Outreach Presentations (Before Hire):**

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| 1. | *Porcine Epidemic Diarrhea Virus*, Hawai‘i Department of Agriculture, Aiea, HI. 11/25/14. |
| 2. | *Swine Disease Updates*, Hawai‘i Pork Industry Association Meeting, Aiea, HI.1/25/14. |
| 3. | *Swine Disease Updates*, Hawai‘i Pork Industry Association Meeting, Aiea, HI. 6/29/13. |
| 4. | *Swine Diagnostic Testing*, Hawai‘i Pork Industry Association Meeting, Aiea, HI. 2/18/12. |
| 5. | *Animal Health and Current Swine Problems*, Hawai‘i Pork Industry Association Meeting, Aiea, HI. 2/09. |

**Other Conference/Meeting Presentations (Since Joining UHM):**

\* Denotes student presenter. My name is highlighted in **bold**. Name of speaker is underlined.

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| 1. | **Odani, J.** *Poultry Health and Management Programs in Hawai‘i.* NE-1442 Poultry Multi-State Meeting, Honolulu, HI. Invited Speaker, 7/30/19. |
| 2. | Paradis, K.,\* **Odani, J.** *Where’s the fresh eggs and meat? Improving the Hawai‘i poultry industry through communication and outreach.* CTAHR and College of Engineering Student Research Symposium, Honolulu, HI. 4/15/19. |
| 3. | Ching, C.,\* **Odani, J.** *Avian Botulism: be on the lookout for dead birds****!*** CTAHR and College of Engineering Student Research Symposium, Honolulu, HI. 4/15/19. |
| 4. | Castle, B.A.,\* **Odani, J.**, Jha, R., Ogasawara, N., Zaleski, H.M. *Survey of Disease Management and Biosecurity Practices of Hawai‘i Swine Farmers.* CTAHR and College of Engineering Student Research Symposium, Honolulu, HI. 4/20/18. |

**Other Conference/Meeting Presentations (Before Hire):**

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| 1. | **Odani, J.\*** *Applications of Histotechnology in Veterinary Diagnostics*. Society for Histotechnology Symposium/Convention, Costa Mesa, CA. 5/06. |
| 2. | **Odani, J.**,\* Read, D., Daft, B., Kinde, H., Moore, J., Uzal, F., Shivaprasad, H., Chin, R., Rezvani, M., Woolcock, P., McFarland, M.D., Charlton, B., Sommer, F., Zellner, D., Moeller, R., Anderson, M., Barr, B. *Pathology of Exotic Newcastle Disease in Backyard Chickens during the 2002-2003 California Outbreak*. University of California-Davis, Veterinary Medical Teaching Hospital House Officer Seminar Day, Davis, CA. 3/03. |

**Published Abstracts (Since Joining UHM):**

\* Denotes graduate student. My name is highlighted in **bold**.

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| 1. | Castle, B.\*, **Odani, J.,** Ogasawara, N.\*, Zaleski, H. (2018) Survey of Disease, Management and Biosecurity Practices of Hawai‘i Swine Farmers. *Journal of Animal Science*, 96 (Suppl3), 53-54. |

**Published Abstracts (Before Hire):**

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| 1. | McNeill, B.S.\*, **Odani, J.,** Jha, R., Zaleski, H.M. (2016). 0168 Prevalence of *Brucella suis* in hunting dogs in Hawai‘i. *Journal of Animal Science*, 94 (Suppl5), 81. |
| 2. | Sarrafian, T.L\*., Case, J.T., Kinde, H., Daft, B.M., Read, D.H., Moore, J.D., Uzal, F.A., Anthenill, L.A., Diab, S.S., **Odani, J.S.**, Mysore, J., St. Leger, J.A., Barr, B.C., Anderson, M.L., Stover, S.M., White, N., II (Editor). Fatal Musculoskeletal Injuries of Quarter Horse Racehorses in California. Proceedings of the 55th Annual Convention of the American Association of Equine Practitioners, Las Vegas, NV, December 5-9, 2009, pp. 190-191. |

**Standard Operating Procedures Authored:**

These documents are part of my working laboratory’s Quality Management System (QMS) or were developed to standardize laboratory and field procedures. Standardization of methods is critical to ensuring consistent, reliable, and reproducible results in laboratory and field work, as well as ensuring proper worker conduct and safety.

1. UHVE.POL.QUA.001 Employee Integrity: standard QMS document
2. UHVE.POL.QUA.002 Client Confidentiality: standard QMS document
3. UHVE.POL.QUA.003 Document Control: standard QMS document
4. UHVE.POL.WLF.001 Waialee Livestock Research Farm Animal Health Care Program
5. UHVE.POL.WLF.002 Waimanalo Livestock Research Farm Animal Health Care Prog.
6. UHVE.FORM.QUA.001 Document Change Request Form: standard QMS document
7. UHVE.FORM.QUA.002 Document Sign Out: standard QMS document
8. UHVE.FORM.QUA.003 Document Reading Record: standard QMS document
9. UHVE.SOP.QUA.001 Reticle-determined Measurements (Fisher Microscope)
10. UHVE.SOP.LAB.001 Fish Necropsy and Sampling
11. UHVE.SOP.HLT.001 Bloodborne Pathogen Exposure
12. UHVE.SOP.HLT.002 Disposal of Hazardous Waste
13. UHVE.SOP.HLT.003 Autoclave Operations
14. UHVE.SOP.HLT.004 Formalin: routine safety document
15. UHVE.SOP.HLT.005 Virkon: routine safety document
16. UHVE.SOP.HLT.006 Isopropyl Alcohol: routine safety document
17. UHVE.SOP.HLT.007 Sodium hypochlorite: routine safety document
18. UHVE.SOP.HLT.008 Vesphene: routine safety document
19. UHVE.SOP.FIELD.001 Fish Transportation and Euthanasia
20. UHVE.SOP.FIELD.002 Semen Collection of Ruminants
21. UHVE.SOP.FIELD.003 Trichomonas/Campylobacter Sampling (of Bulls)
22. UHVE.SOP.FIELD.004 Baby Pig Processing: to ensure best practices are followed
23. UHVE.SOP.FIELD.005 Poultry Euthanasia: to ensure best practices are followed.
24. UHVE.SOP FIELD.006 Kid/Lamb/Calf Processing: to ensure best practices are followed
25. UHVE.SOP.FIELD.007 Poultry Husbandry: to ensure best practices are followed
26. UHVE.SOP.PAR.001 Sodium Nitrate Fecal Flotation: to ID parasitic ova in animal feces
27. UHVE.SOP.PAR.002 Modified McMasters Fecal Egg Count: for quantifying parasitic ova

**Standard Operating Procedures Reviewed:**

These documents are part of the shrimp disease diagnostic laboratory’s Quality Management System (QMS). Standardization of methods is critical to ensuring consistent, reliable, and reproducible results in the laboratory to meet stringent export requirements.

1. UHADL.SOP.EOI.001 Autoclave Tuttnauer
2. UHADL.SOP.EOI.002 Precision Balance
3. UHADL.SOP.EOI.003 Spectrophotometer
4. UHADL.SOP.EOI.004 MultiBlock Heater
5. UHADL.SOP.EOI.005 Centrifuge 5430R
6. UHADL.SOP.EOI.006 Isotemp Dry Bath
7. UHADL.SOP.EOI.007 250V Power Supply
8. UHADL.SOP.EOI.008 ThermoMixer
9. UHADL.SOP.EOI.009 UV Transilluminator
10. UHADL.SOP.EOI.010 Mastercycler Gradient
11. UHADL.SOP.EOI.011 ABI 7500 Real Time PCR
12. UHADL.SOP.EOI.012 Hirayama Autoclave Operations
13. UHADL.EOI.FORM.001 Daily Analytical Balance Record
14. UHADL.FORM.PCR.002 GoTaq DNA Polymerase Kit Log Form
15. UHADL.FORM.PCR.003 RT Kit and LogBook
16. UHADL.FORM.PCR.004 GoTaq Probe qPCR Master Mix Log Form
17. UHADL.FORM.QUA.004 Equipment Calibration Form
18. UHADL.FORM.QUA.010 Client Feedback
19. UHADL.PCR.FORM.001 Case Datasheet Template Form
20. UHADL.PCR.FORM.004 Final Report
21. UHADL.PCR.FORM.008 SV Total RNA Isolation System Kit Manual Log Form
22. UHADL.PCR.FORM.009 96-well-plate Spreadsheet Template
23. UHADL.PCR.FORM.010 Archived PCR Tissue
24. UHADL.PCR.FORM.011 Ring Test Sample Received
25. UHADL.PCR.FORM.012 PCR and qPCR Case Sampling Records
26. UHADL.PCR.VAL.001 IMNV Test Methods Validation
27. UHADL.PCR.VAL.002 AHPND Test Methods Validation
28. UHADL.PCR.VAL.003 IHHNV Test Methods Validation
29. UHADL.PCR.VAL.004 WSSV Test Methods Validation
30. UHADL.PCR.VAL.005 NHP Test Methods Validation
31. UHADL.PCR.VAL.006 TSV Test Methods Validation
32. UHADL.PCR.VAL.008 YHV Test Methods Validation
33. UHADL.POL.QUA.001 Client Confidentiality
34. UHADL.POL.QUA.003 Outsourcing
35. UHADL.POL.QUA.004 Employee Integrity
36. UHADL.POL.QUA.008 Code of Ethics
37. UHADL.POL.QUA.010 Phone Calls
38. UHADL.POL.QUA.013 Price List
39. UHADL.SOP.ADM.001 Purchasing Supplies
40. UHADL.SOP.HLT.001 Disposal of Hazardous Waste
41. UHADL.SOP.PCR.001 Polymerase Chain Reaction Raw Data and Reports
42. UHADL.SOP.PCR.002 PCR Kit and Logbook Maintenance
43. UHADL.SOP.PCR.003 RT Kit and LogBook and Maintenance
44. UHADL.SOP.PCR.004 qPCR Reagent and Logbook Maintenance
45. UHADL.SOP.PCR.005 DNA Extraction Using Wizard Kit
46. UHADL.SOP.PCR.006 RNA Extraction Using SV Total RNA Isolation System Kit
47. UHADL.SOP.PCR.007 Validation for qPCR Test Methods
48. UHADL.SOP.PCR.008 Primer/Probe/Plasmid Design -BLAST
49. UHADL.SOP.PCR.009 Gel Electrophoresis
50. UHADL.SOP.PCR.010 PCR and RT-PCR Product Visualization and Interpretation
51. UHADL.SOP.PCR.011 Assessing the Purity and Concentration of Nucleic Acid Extractions
52. UHADL.SOP.PCR.012 Sampling Procedures
53. UHADL.SOP.PCR.013 Primer and Probe Dilution
54. UHADL.SOP.PCR.015 Infection with Infectious Myonecrosis Virus qPCR Protocol
55. UHADL.SOP.PCR.016 Infectious Hypodermal and Haematopoietic Necrosis Virus qPCR

Protocol

1. UHADL.SOP.PCR.017 Infection with Taura syndrome Virus qPCR Protocol
2. UHADL.SOP.PCR.018 Acute Hepatopancreatic Necrosis Disease qPCR Protocol
3. UHADL.SOP.PCR.019 Necrotizing Hepatopancreatitis qPCR Protocol
4. UHADL.SOP.PCR.020 White Spot Syndrome Virus qPCR Protocol
5. UHADL.SOP.PCR.021 Yellow Head Virus PCR Protocol
6. UHADL.SOP.PCR.022 Tetrahedral Baculovirosis -BP-PCR Protocol
7. UHADL.SOP.PCR.023 Spherical Baculovirosis -MBV-PCR Protocol
8. UHADL.SOP.QUA.001 Document Control
9. UHADL.SOP.QUA.002 Sterilizer Quality Control
10. UHADL.SOP.QUA.003 Equipment Maintenance
11. UHADL.SOP.QUA.004 PCR Test Methodologies Validation
12. UHADL.SOP.QUA.005 Logging in Sample
13. UHADL.SOP.QUA.006 Non-conformance and Corrective Actions
14. UHADL.SOP.QUA.007 Ensuring Quality of Result
15. UHADL.SOP.QUA.008 Laboratory Design
16. UHADL.SOP.QUA.009 Internal Audit
17. UHADL.SOP.QUA.010 Review Request Tenders and Contracts
18. UHADL.SOP.QUA.011 Services to Client
19. UHADL.SOP.QUA.012 Client Complaint
20. UHADL.SOP.QUA.013 Backup Data
21. UHADL.SOP.QUA.014 Record Management
22. UHADL.SOP.QUA.015 Personnel Training
23. UHADL.SOP.QUA.016 Chemical Dye Reagent Inventory
24. UHADL.SOP.SMP.001 Specimen Receiving

**Post Graduate Courses/Training:**

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| 2019 | National Poultry Improvement Program: official Salmonella laboratory training, Athens, GA. 10/22-10/24/19 |
| 2019 | National Poultry Improvement Program: official Avian Influenza laboratory training, Athens, GA. 5/22-5/23/19 |
| 2018 | ANSC 643: Animal Reproduction, UH Mānoa (3 credits) Spr. 2018 |
| 2017 | ANSC 657: Grant Writing, UH Mānoa (1 credit) Fall 2017 |
| 2017 | C.L. Davis Diagnostic Pathology Symposium: Renal Pathology, San Diego, CA. 10/13/17 |
| 2017  2017 | Pharmaceutical Use in Cattle, ANSC 4311E-E, West Texas A&M University, online (3 credits) Summer 2017  Goat Artificial Insemination Course, Stillwater, OK. 3/31/17 |
| 2017 | PEPS 691: Special Topics: Extension Education, UH Mānoa. Spr. 2017 |
| 2017 | Veterinary Information Network, online continuing education, Bees and Veterinary Medicine. 3/2017 |
| 2017 | Pork Quality Assurance Plus Advisor Training, Honolulu, HI. 3/3/17 |
| 2017 | Emergency Management Response System 2.0 Training, USDA, APHIS, VS, Aiea, HI. Trained to use the EMRS program to enter Premises information into nationwide database, and to initiate reporting of foreign animal diseases. 2/23-2/24/17 |
| 2015 | C.L. Davis Diagnostic Pathology Symposium: Diagnostic Pathology of Fish Diseases, Providence, RI. 10/23/15 |
| 2015 | NVSL training for Equine Infectious Anemia AGID/ELISA and Pseudorabies Virus ELISA testing, Ames, IA. 8/10-8/11-15 |
| 2015 | Quality Management System Training (National Animal Health Laboratory Network), Ames, IA. 8/4-8/7/15 |
| 2015 | Foreign Animal Disease Diagnostician Course, Plum Island Animal Disease Center, Department of Homeland Security, Orient Point, NY. 6/1-6/12/15 |
| 2014 | C.L. Davis Diagnostic Pathology Symposium: Diagnostic Pathology of Bovine Diseases, Kansas City, MO. 10/17/14 |
| 2014 | Tilapia Hatchery and Production Techniques Workshop, Auburn, AL. Advanced techniques in hatchery techniques and production. 8/4-8/9/14 |
| 2013 | C.L. Davis Diagnostic Pathology Symposium: The Veterinary Pathologist and Forensics, San Diego, CA. 10/18/13 |
| 2007 | Veterinary Laboratory Diagnostician Course on Foreign Animal Disease Pathology, Plum Island Animal Disease Center, Department of Homeland Security, Orient Point, NY. 11/5/07 |
| 2004 | Poultry Histopathology Workshop, California Animal Health and Food Safety Laboratory System, UC Davis, San Bernardino, CA. 7/9-7/11/04 |
| 2004 | Descriptive Veterinary Pathology course. Armed Forces Institute of Pathology, Washington, DC. 6/7-6/11/04 |
| 2003 | Examination of the Musculoskeletal System of Race Horses. California Animal Health and Food Safety Laboratory System, UC Davis, San Bernardino, CA. 12/13-12/14/03 |
| 2003 | Symposium on Reproductive Pathology. Charles Louis Davis, DVM Foundation. San Diego, CA. 10/13/03 |
| 2003 | 48th Annual Pathology of Laboratory Animals (POLA) course. Armed Forces Institute of Pathology. Washington, DC. 8/5-8/9/03 |

**Awards*:***

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| 2019 | College of Tropical Agriculture and Human Resources Dean’s Award for Excellence in Teaching. |
| 2018 | Ka Pouhana (Mentor) Award, CTAHR. Recognizes outstanding support of student learning and development through co-curricular activities. |
| 2008 | State of Hawai‘i Team of the Year, Department of Agriculture. Awarded for service to swine producers investigating outbreaks of disease. Porcine circovirus 2 was detected for the first time in Hawai‘i. |

**College/University Outreach and Service Activities:**

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| 2020 –  Present | Member of CTAHR Faculty Senate. Two-year term. Elected to Executive Board. Personnel Committee Liaison. |
| 2019 –  Present | Member of the College of Tropical Agriculture and Human Resources Leadership Academy; selected by the Dean of CTAHR to develop short- and long-term strategies to improve our programs. |
| 2019 –  Present | Member of the James Campbell High School Academy of Health Sciences Advisory Board. Works with high school students to encourage academic growth and knowledge of animal science programs. |
| 2017-  present | Member of the University of Hawai‘i Institutional Animal Care and Use Committee (IACUC). Reviews institutional animal use protocols (~1-2 per month), conducts site inspections (~2 per quarter), and works directly with departmental researchers to address animal health and welfare issues. Vice-chair of committee effective January 2021. |
| 2020 | CTAHR New Student Orientation; met with incoming freshman and transfer students to welcome them to the Animal Sciences program and explain the resources available to them. Virtual, 8/17/20 |
| 2020 | McKinley High School Animal Sciences Class, provided information regarding the animal science program at the University of Hawaii at Mānoa and concepts of disease prevention and control with a focus on animal diseases and SAR-CoV-2 with 30 high school students. 2/26/19 |
| 2019 | CTAHR New Student Orientation; met with incoming freshman and transfer students to welcome them to the Animal Sciences program and explain the resources available to them. 8/21/19 |
| 2019 | Hawai‘i AgDiscovery Program, CTAHR, 10 high school students. Feral swine and avian necropsies. 7/11/19 |
| 2019 | McKinley High School Animal Sciences Class, provided information regarding the animal science program at the University of Hawaii at Mānoa and animal/ veterinary science careers with 25 high school students. 2/26/19 |
| 2019 | Agriculture and Environmental Awareness Day, Educated ~500 local 5th grade students about animal sciences and the swine industry in Hawai‘i. 2/7/19 |
| 2017-2019 | Hanai Program: This program that matches faculty with an out-of-state transfer student. My goal was to help these students feel like they have a “home” here at UH and a friendly trusted faculty member that they can reach out to for help. |
| 2018 | Explore Mānoa: Application Day – Academic and Student Services Resource Fair. Provided information to potential incoming freshmen. 11/18/18 |
| 2018 | CTAHR New Student Orientation; met with incoming freshman and transfer students to welcome them to the Animal Sciences program and explain the resources available to them. 8/16/18 |
| 2018 | Hawai‘i AgDiscovery Program, CTAHR, 10 high school students. Feral swine necropsies. 7/12/18 |
| 2018 | Farrington High School Health Academy Visit, ~50 students. Presented a module about Veterinary Medicine as an option in health sciences. 4/12/18 |
| 2018 | CTAHR Speed Networking Student-Faculty luncheon. Interacted with invited CTAHR students to improve communication and to enhance the students’ identification with the CTAHR programs. 4/4/18 |
| 2018 | The Mānoa Experience: University Preview Day. Educated potential undergraduate students and their families about the programs within HNFAS. 3/3/18 |
| 2017 | CTAHR Freshmen Luncheon, interaction with freshmen to enhance their sense of belonging. 11/22/17 |
| 2017 | UH Mānoa Annual Graduate Fair, Animal Sciences M.S. program booth participant. 10/26/17 |
| 2017 | CTAHR New Student Orientation, faculty participant: I presented information about the Animal Sciences program to incoming freshman and transfer students. Since then, I’ve talked with several of these students and they report that they enjoyed getting to know their faculty early on in their academic careers and are pleased with their choice of majors. 8/15/17 |
| 2017 | Hawai‘i AgDiscovery Program, CTAHR, 10 high school students. I led the feral pig necropsy experience for high school students participating in a CTAHR program. This program aims to expose students to the different career paths available in agriculture and natural resource management. Four of the ten students rated it as their favorite module. 7/11/17 |
| 2017 | I coordinated the “Paint Your Pets” team-building event for Animal Sciences students, which celebrated our program’s appreciation for animals. This event was selected for funding by the Office of Academic and Student Affairs. 4/21/17 |
| 2017 | “Fraps with Faculty” Mānoa Sophomore Experience panelist. A UHM event featuring a faculty panel to engage underclassmen and discuss strategies for undergraduate success. 4/5/17 |
| 2017 | The Mānoa Experience: University Preview Day. Organized group of 19 volunteers, which educated potential undergraduate students and their families about the programs within HNFAS. Contact information from 33 students obtained, including four out-of-state. 2/25/17 |
| 2017 | Ag Awareness Day, Pearl City, HI. Educated ~500 local 5th grade students about animal sciences and the beef industry in Hawai‘i. 2/10/17 |
| 2017 | CTAHR Spring Carnival, dunk booth participant (public embarrassment for the enjoyment of students)! 2/3/17 |
| 2017 | Filmed footage for CTAHR Animal Sciences undergraduate program promotional video. <https://www.youtube.com/watch?v=GnEGydRqV9o> 2/2017 |
| 2016 | Aloha United Way. Departmental Coordinator for charitable donations. |

**Departmental Service:**

2020-present ANSC BS Program Learning Assessment Coordinator

2018-present Departmental Faculty Representative, University of Hawai‘i Professional Assembly

2017-present Provide veterinary care and consultation for CTAHR researchers: Institutional Animal Care and Use Committee (IACUC) protocols 08-422-9, 16-22319-3, 13-1639-6, 13-1639-6, 17-2605-2. Conducted 8 animal necropsies as the veterinary consultant for these protocols. Work with the IACUC to address any animal health or welfare concerns that may arise.

2017-present Member of the HNFAS Space Committee to help with logistics of space utilization by students, faculty, and staff within the department.

2017-present Judge for CTAHR/COE Student Research Symposium

2016-present Member of the Charles Reid DVM. Memorial Scholarship Committee; Chairperson, 2017 to present. I update and disseminate application materials to pre-veterinary medicine students, collect and organize application submissions, summarize data into a spreadsheet, convene a selection/awarding meeting with members of the University and the veterinary profession, and oversee the actual awarding within the UH fiscal process.

2016-present Member of the HNFAS Curriculum Committee: reviews course offerings, new course content, major requirements, and other issues related to the Animal Sciences curriculum.

2016-present Member of the HNFAS Scholarship Committee: meets annually to review student applications and determines scholarship awards.

2016-present Advisor to the Pre-vet Club at UH Mānoa: serve as University liaison and advisor to club of pre-veterinary medicine students (typically ~30-50 each year). Oversee school and community activities and provides logistical support.

2016 Aloha United Way Departmental Coordinator: coordinated activities for a state-wide charitable organization.

**Professional Associations:**

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| American Association of Veterinary Laboratory Diagnosticians (AAVLD) | * The world leader in advancing the discipline of veterinary diagnostic laboratory science to promote global animal health and One Health. |
| American College of Veterinary Pathologists (ACVP) | * The oldest specialty organization recognized by the American Veterinary Medical Association; an organization of board-certified veterinary pathologists that sets the standards for the field of veterinary pathology. |
| American Association of Extension Veterinarians (AAEV) | * Organization of veterinarians dedicated to the education of the public and the profession in areas of animal and public health. |
| National/Hawaii Association of Country Agricultural Agents | * National and state-level professional organization for Extension agents and specialists. |
| Academy of Veterinary Consultants (AVC) | * Organization of veterinarians involved in the beef cattle industry, especially in areas of continuing education, proactive application of scientific information, and leadership in the areas of animal health, animal welfare, human health, food safety and environment. |
| American Association of Small Ruminant Practitioners (AASRP) | * Organization of veterinarians to further the programs and studies of those working with small ruminants (e.g. sheep, goats, South American camelids). |
| American Association of Fish Veterinarians | * Organization of licensed veterinarians in North America who practice fish medicine; goals are to advance the quality and stature of clinical fish veterinary practice. |
| American Veterinary Medical Association (AVMA) | * Leading professional veterinary organization that advocates for its members and advances the science and practice of veterinary medicine to improve animal and human health. |
| World Aquatic Veterinary Medical Association | * International association for professionals in the discipline of aquatic veterinary medicine. |
| Hawai‘i Pork Industry Association (HPIA) | * Local non-profit organization of swine producers and affiliates. |
| Hawai‘i Cattlemen’s Council (HCC) | * Non-profit organization working for the cattle producers of Hawai‘i in areas of education, promotion, and research. |
| Hawai‘i Sheep and Goat Association (HSGA) | * State-wide non-profit organization of small ruminant producers and affiliates. |
| Hawai‘i Veterinary Medical Association (HVMA) | * State branch of the AVMA. |
| Honolulu Veterinary Society (HVS) | * Local non-profit organization of veterinarians that provides continuing education and networking among Hawai‘i veterinarians. |

**Professional Service:**

2020 Livestock Zoonoses Advisory Focus Group: CFSPH

2019 Panel Member USDA National Institute for Food and Agriculture (NIFA) Veterinary Service Grant Program. Evaluated submissions for proposals to relieve veterinary shortage situations and support veterinary services in shortage areas as well as education, extension, and training programs for veterinarians and other veterinary professionals.

2019 Ad hoc reviewer for the Journal of Veterinary Diagnostic Investigations

2018-present Hawai‘i Veterinary Medical Association, Secretary. Review issues that affect the profession and provide testimony to the legislature. Member of the Pet Expo Committee that organizes a weekend event for the public to educate them about all things pet-related; attendance is typically ~10,000. Member of the Annual Conference Committee that organizes the state’s largest veterinary continuing education event. Participates in all logistic activities including site selection, contracts, speaker scheduling, program, social event planning, merchandising, and vendor arrangements.

2016-2018 Hawai‘i Veterinary Medical Association, Oahu Delegate

2016-present Western Interstate Commission for Higher Education, Professional Student Exchange Program, DVM Admissions Committee member and Veterinary Medicine Advisory Council. This program enables students in Hawai‘i to enroll in out-of-state veterinary medicine programs and pay reduced tuition.

2016-present American Association of Extension Veterinarians, Secretary

2013-present Center for Tropical and Subtropical Aquaculture Technical Committee member. Reviewed 19 proposals since joining UH Mānoa.

2012-2019 State Board of Veterinary Medicine, Department of Commerce and Consumer Affairs, Professional and Vocational Licensing. Oversees licensing and issues concerning licensing of veterinarians in Hawai’i.

Chairperson, 2016-2019

2007-2016 American Association of Laboratory Veterinary Diagnosticians: Hawai‘i Delegate

**Post Graduate Meetings/Conferences Attended:**

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| --- | --- |
| 2019 | Western Interstate Commission for Higher Education, Veterinary Medicine Advisory Council Annual Meeting, Fort Collins, CO. 6/26-6/28/19 |
| 2019 | Veterinary Leadership Conference, American Veterinary Medical Association, Chicago, IL. 1/11-1/13/19 |
| 2018 | Hawai‘i Veterinary Medical Association Annual Meeting, Honolulu, HI. Moderated the various sessions. 11/8-11/11/18 |
| 2018 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, Kansas City, MO 10/17-10/23/18 |
| 2018 | American Association of Veterinary State Boards Annual Meeting, Washington, DC 9/13-9/15/18 |
| 2018 | Western Interstate Commission for Higher Education, Veterinary Medicine Advisory Council Annual Meeting, Medora, ND. Facilitated the admissions session. 6/6-6/8/18 |
| 2017 | Hawai‘i Veterinary Medical Association Annual Meeting, Honolulu, HI. Moderated the various sessions. 10/26-10/29/17 |
| 2017 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, San Diego, CA. Co-moderated a Pathology session of presentations. 10/12-10/16/17 |
| 2017 | American Association of Veterinary State Boards Annual Meeting, San Antonio, TX. 9/14-9/16/17 |
| 2017 | Western Interstate Commission for Higher Education, Veterinary Medicine Advisory Council Annual Meeting, Newport, OR. 6/28-6/30/17 |
| 2017 | Western Poultry Disease Conference, Sacramento, CA. 3/19-3/21/17 |
| 2016 | Hawai‘i Veterinary Medical Association Annual Meeting, Honolulu, HI. Moderated the Large Animal session. 11/11-11/13/16 |
| 2016 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, Greensboro, NC. 10/14-10/17/16 |
| 2016 | Pork Quality Assurance Plus Workshop, Aiea, HI. 12 participants. 8/24/16 |
| 2015 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, Providence, RI. 10/22-10/28/15 |
| 2014 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, St. Louis, MO. 10/17-10/20/14 |
| 2013 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, San Diego, CA. 10/17-10/23/13 |
| 2013 | Fundamentals of Management, Honolulu, HI. 4/13 |
| 2013 | Animal Industry Division: Avian Influenza Meeting, Aiea, HI. 3/13 |
| 2010 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, Minneapolis, MN. 11/11-11/17/10 |
| 2009 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, San Diego, CA. 10/7-10/14/09 |
| 2008 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, Greensboro, NC. 10/23-10/29/08 |
| 2006 | American Veterinary Medical Association Annual (AVMA) Convention, Honolulu, HI. 7/15-7/19/06 |
| 2004 | World Aquaculture Society Conference, Honolulu, HI. 3/1-3/5/04 |
| 2003 | American Association of Veterinary Laboratory Diagnosticians (AAVLD) Conference, San Diego, CA. 10/9-10/16/03 |
| 2003 | Western Poultry Disease Conference (WPDC), Sacramento, CA. 3/9-3/11/03 |
| 2002 | Fourth International Symposium of Aquatic Animal Health, New Orleans, LA. 9/3-9/4/02 |

Melelani A. Oshiro

**University of Hawaii at Manoa – Cooperative Extension**

**College of Tropical Agriculture and Human Resources**

FTE Distribution: 0% I; 0% R; 100% E

**Education**

**Degree Major University**

2018 Master of Science: Animal Science, University of Hawaii at Mānoa, Honolulu, HI 96822

2010 Bachelor of Science: Animal Science, Massey University, Palmerston NZ

2002 Bachelor of Science: Agriculture, Pre-Veterinary Option, University of Hawaii at Hilo, Hilo, HI 92720

**Professional Appointments**

|  |  |  |
| --- | --- | --- |
| **Title** | **Employer** | **Dates Employed** |
| Assistant Livestock Extension Agent | University of Hawaii-Manoa | 3/2019 – Present |
| Research Assistant, Range and Livestock Programs | University of Hawaii-Manoa | 12/209 – 2/2019 |
| Yearling Prep | Waikato Stud, Matamata, Waikato NZ | 11/2008 – 01/2009 |
| Veterinary Technician | Veterinary Associates, Inc., Kamuela, HI | 8/1996 - 1/2008 |
| Ranch Hand/Guide | Dahana Ranch, Kamuela, HI | 8/2006 – 1/2008 |

**Publications (reverse chronological order)**

Thesis

**Oshiro, M.** 2018. Effects of Animal Behavior and Core-Body Temperature on Production Efficiency of Grass-Finished Beef Cattle. M.S. Thesis, University of Hawaii at Manoa, Honolulu, HI.

Refereed Journal Publications

Krushelnycky, P.D., F. Starr, K. Starr, **M. Abran**, M. Thorne, J. Leary, M. Fukada, D. Rubinoff. 2018. Performance of the biocontrol agent Secusio extensa (Lepidoptera: Erebidae) on its target host, Senecio madagascariensis (Madagascar fireweed), on an alternate host, Delairea odorata (Cape ivy), and on nontarget plants, in Hawaii. Biological Control 121: 234-246.

Published Abstracts

Thorne, M.S., M. Wright, G. Fukumoto, D. Oishi, S. Wilson, J. Mack, and **M. Oshiro**. 2019. Detection and management of Two-Lined Spittlebug (*Prosapia bicincta*) on Hawaii Rangelands. 72nd Annual meeting of the Society for Range Management. Minneapolis, MN. February 10-14, 2019.

Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**. (2018). Mineral Supplementation Program Development and Education for Hawaii Rangelands. Association of Natural Resource Professionals 2018 Conference. Biloxi, MS. April 29-May 3, 2018.

Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**. (2018). Development of an individual free-choice mineral supplementation program for improved grazing management in Hawaii’s rangelands. 71st Annual meeting of the Society for Range Management, Sparks, Nevada. January 27-February 3, 2018.

**Oshiro, M**., M.S. Thorne, C.N. Lee, Y.S. Kim, G. Fukumoto. (2018). Effects of animal behavior on core-body temperature and production efficiency of grass-finished cattle. 71st Annual meeting of the Society for Range Management, Sparks, Nevada. January 27-February 3, 2018.

Thorne, M.S., **M.A. Abran**, C.N. Lee, G. Fukumoto. (2016). Animal behavior, body core temperature, and production efficiency of grass-finished cattle. 69th Annual meeting of the Society for Range Management, Corpus Christi, Texas. January 31-February 4, 2016.

Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A**. Abran. (2015). Forage quality and weaning weight influences grass-finished cattle performance and meat quality. 68th Annual Meeting of the Society for Range Management, Sacramento, California. January 30 – February 7, 2015.

Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and **M. A. Abran**. (2015). Grazing management for tropical grass-finish beef production. 68th Annual Meeting of the Society for Range Management, Sacramento, California. January 30 – February 7, 2015.

Thorne, M.S., G.K. Fukumoto, M.H. Stevenson, and **M. A. Abran**. (2015). Drought management tools for Hawaii’s rangelands. 68th Annual Meeting of the Society for Range Management, Sacramento, California. January 30 – February 7, 2015.

Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, M. Stevenson, and **M. A. Abran**. 2014. Hawaii Rainfall and Forage Production Index: An Evaluation Tool for Drought Affected Rangelands. 67th Annual Meeting of the Society for Range Management, Orlando Florida, February 8-13, 2014.

Preston, Whitney Dawn, Marla Fergerstrom, Glen Fukumoto, Tracy Sy, **Melelani Abran**, Ashley Michelle Stokes. 2012. Weaning weight and impact on innate immunological status of beef cattle. Federation of American Societies for Experimental Biology Journal, 26:1

Technical Reports

Thorne, M.S., J.L. Deenik, R.W. Godfrey, G.K. Fukumoto, J.S. Powley, M.H. Stevenson, L.J. Duponcheel, and **M. Abran.** 2010. Ranch pasture and Livestock Management Record Book. University of Hawaii at Manoa CTAHR Publication. Pp. 62.

**Extension Publications/Presentations/Workshops**

Publications

Katulski, S., M.S. Thorne, J. Odani, and **M. Oshiro**. 2020. Copper supplementation for beef cattle in Hawaii. University of Hawaii at Manoa, CTAHR Publication LM-36, pp. 10.

Presentations

**Oshiro, M.,** Katulski, S. and Sand, S. (May 2020). Online Livestock Marketing Webinar Series Part 2, Using Online Sales Platforms (Square).

**Oshiro, M.,** Katulski, S. and Sand, S. (May 2020). Online Livestock Marketing Webinar Series, Part 3, Using Social Media to Market Animal Products (Facebook).

**Oshiro, M.**, M.S. Thorne, C.N. Lee, Y.S. Kim, G. Fukumoto. (June 2019). Study Results: Effects of Animal Behavior on core-body temperature and production efficiency of grass-finished cattle. Spring Forage Field Day Workshop-Practices for Sustainable Beef Production, Kamuela, HI

**Oshiro, M.** (May 2019). What is a Livestock Extension Agent? Honokaa Elementary School Career Day Guest Speaker

Thorne, Mark S., Glen K. Fukumoto, Yong, S. Kim, Chin N. Lee, Matthew H. Stevenson and \***Melelani Abran**. (Sept. 2015). An Update: Effects of Animal Behavior on Body Core Temperature and Production Efficiency of Grass Finish Cattle. CTAHR Extension and Research Update Workshop, Maui, HI (Sept. 2015)

**Abran, Melelani**. (Aug 2013) Secusio extensa Release Program: a bio-control for Fireweed, Presentation. Stockman’s Fall Field Day, Kamuela, HI

**Abran, M**. and M.S. Thorne. (2013) Secusio extensa release program. CTAHR, University of Hawaii.

Workshops & Other Activities

September 2020 Livestock Extension Group Virtual Field Day, **Body Condition Scores and Frame Scores for Beef Cattle, Melelani Oshiro**

May 2020 Four-Part Online Livestock Marketing Webinar; Part1 – Online Marketing Livestock Panel; Part – 2 Using Online Sales Platforms: **Using Online Sales Platforms (Square) Presenter: Melelani Oshiro,** Different Online Payment Formats – Presenter: Shannon Sand; Part 3 – Marketing Using Social Media: Instagram for the farm and ranch Presenter: Shannon Sand, **Using Social Media to Market Animal Products (Facebook) Presenter: Melelani Oshiro**, Using Canva to Support Social Media Marketing Presenter: Savannah Katulski; Part 4- General Marketing & Branding, Direct Marketing and Branding Presenter: Shannon Sand

February 2020 Honeybee Health Lecture and Workshop held in East and West Hawaii which is part of Food Animal Medicine Continuing Education Series lead by Dr. Jenee Odani.

June 2019 Spring Forage Field Day – Practices for Sustainable Beef Production in Hawaii lead by Dr. Mark Thorne, Presentation on **Results of a Study on Grazing Behavior, Production Efficiency, & Carcass Quality in Beef Cattle**.

Nov. 2019 Waimea Country School Science Fair, Guest Scientist

May 2019 Stakeholder Focus Group: Hawaii Livestock Producer Assistance

May 2019 VSGP Poultry Health Workshop (East Hawaii)

May 2019 VSGP Poultry Health Lecture (East Hawaii)

May 2019 Honokaa Elementary School Career day, Guest Speaker

2019, 2018, 2012 Hawaii Grazing and Livestock Management Academy, Kamuela, HI,

June 2013 CTAHR Tropical Pasture and Livestock Management Conference, Tinian, CNMI Planning Committee.

August 2013 CTHAR, Stockman’s Fall Field Day, Kamuela, HI, August 2013.

February 2013 Secusio Release Program, February 2013

May & June 2012 Marianas Grazing Academy – Workshop Series #4, Tinian, Rota, Saipan, Guam, Planning Committee

June 2012 Livestock Management Academy – Workshop Series #2, Palau, Pohnpei, Planning Committee.

January 2011 Marianas Grazing Academy-Workshop Series #3. Saipan, Guam, Planning Committee. January 2011

September 2011 CTAHR Tropical Pasture and Livestock Management Conference, Maui, HI., Planning Committee.

March & August 2011 Livestock Management Academy – Workshop Series #1, Palau, Pohnpei, Planning committee.

December 2010 Marianas Grazing Academy-Workshop Series #3. Tinian, Rota, Planning Committee.

June & September 2010 Marianas Grazing Academy-Workshop Series #2. Tinian, Rota, Saipan, Guam, Planning Committee.

**Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)**

Website

Tropical Pasture and Livestock Management. (January 2012 – March 2019)

<http://manoa.hawaii.edu/ctahr/tpalm/index.html>

Hawaii Rangelands, Rangelands West: Global Rangelands, University of Arizona CALS. Communications & Cyber Technologies Team (CCT). (2011 – March 2019) <https://globalrangelands.org/state/hawaii>

**Academic and Professional Awards, Memberships, and Activities**

Professional Organizations

Society of Range Management – California-Pacific Section (2017-presnt)

American Society of Animal Science (ASAS) (2019 – present)

National Association of County Agricultural Agents (NACAA) (2019 – present)

Community Organizations

Taste of the Hawaiian Range Agricultural Festival Committee Member (2019 – present)

Livestock Shipper Certification Committee (2020 – Present, Chair Dec.2020)

Hawaii Range Plant Identification Committee (2020)

CTAHR Committees

Livestock Extension Group (LEG) – 2019-Present

Sub-Committee: LEG-Needs Assessment Committee, LEG-Pau Hana Committee, LEG – Field Day Committee

Technology Outreach Committee (2020 – Present)

SEC-Ad Hoc Sub-Committee: Cross-Departmental Strategic Vision for CTAHR (2020)

CTAHR Extension Committee (Nov. 2020-Present)

Professional Development

New Agent Mentor Series (January – April 2020)

**Grant Support**

Title of Grant: Livestock Extension Group Coordination: Extension POW 14-242

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $124,973

Dates of Grant: 10/2019 – 09/2024

Role (PI, CoPI): Collaborator

**Grants Submitted (pending)**

Title of Grant: Production, Marketing and Finance Risk Education for Hawaii Beef Producers Underserved by Crop Insurance

Source of Grant: USDA-W ERME

Total Dollar Value (Your share of the grant value): $99,726

Dates of Grant: Submitted 11/2020 for FY2021

Role (PI, CoPI): CoPI

**Presentations at Conferences**

Title: Changes in vegetative community composition following Twoline Spittlebug (*Prosapia bicincta*) infestations in Hawaii Rangelands.

Authors (\*presenter): \***Thorne, M.S**., M. Wright, S. Wilson, J. Mack, and M. Oshiro.

Name of Conference: 73rd. Annual Meeting of the Society for Range Management

Location: Denver, Colorado

Date of Presentation: February 16-20, 2020

Title: Detection and management of Two-Lined Spittlebug

(*Prosapia bicincta*) on Hawaii Rangelands.

Authors (put an asterisk on the presenter): \*Thorne, M.S., M. Wright, G. Fukumoto, D. Oishi, S. Wilson, J. Mack, and **M. Oshiro**

Name of Conference: 72nd Annual meeting of the Society for Range Management

Location: Minneapolis, Minnesota

Date of Presentation: February 10-14, 2019

Title: Mineral Supplementation Program Development and Education For Hawaii Rangelands.

Authors (put an asterisk on the presenter): \*Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**

Name of Conference: Association of Natural Resource Professionals 2018 Conference

Location: Biloxi, Mississippi

Date of Presentation: April 29 – May3, 2018

Title: Development of and individual free-choice mineral supplementation program for improved grazing management in Hawaii’s rangelands.

Authors (put an asterisk on the presenter): \*Thorne, M.S., J.P. Hewlett, G.K. Fukumoto, **M.A. Oshiro**.

Name of Conference: 71st Annual meeting of the Society for Range Management

Location: Sparks, Nevada

Date of Presentation: January 27 – February 3, 2018

Title: Effects of animal behavior on core-body temperature and production efficiency of grass-finished cattle.

Authors (put an asterisk on the presenter): **\*Oshiro, M.,** M.S. Thorne, C.N. Lee, Y.S. Kim, G.

Fukumoto.

Name of Conference: 71st Annual meeting of the Society for Range Management

Location: Sparks, Nevada

Date of Presentation: January 27 – February 3, 2018

Title: Animal Behavior, body core temperature, and production efficiency of grass-finished cattle.

Authors (put an asterisk on the presenter): \*Thorne, M.S., **M.A. Abran**, C.N. Lee, G. Fukumoto

Name of Conference: 69th Annual meeting of the Society for Range Management

Location: Corpus Christi, Texas

Date of Presentation: January 31 – February 4, 2016

Title: Forage quality and weaning weight influences grass-finished cattle performance and meat quality.

Authors (put an asterisk on the presenter): \*Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H.

Stevenson, and **M. A. Abran**

Name of Conference: 68th Annual meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

Title: Grazing Management for tropical grass-finish beef production.

Authors (put an asterisk on the presenter): \*Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H.

Stevenson, and **M. A. Abran**

Name of Conference: 68th Annual meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

Title: Drought management tools for Hawaii’s rangelands.

Authors (put an asterisk on the presenter): \*Thorne, M.S., G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H.

Stevenson, and **M. A. Abran**

Name of Conference: 68th Annual meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

**CURRICULUM VITAE**

Marie Kainoa Fialkowski Revilla, PhD, MS, RDN, LD, IBC

Associate Professor, Human Nutrition

Department of Human Nutrition, Food and Animal Sciences

University of Hawai‘i at Mānoa (UHM)

1955 East-West Rd, AgSci 314J

Honolulu HI 96822

Telephone: (808) 956 8337

Fax: (808) 956 4024

Email: [mariekf@hawaii.edu](mailto:mariekf@hawaii.edu)

**Education**

|  |  |
| --- | --- |
| 2019 | Indigenous Breastfeeding Counselor Training  Waimānalo Health Center, Waimānalo, HI |
|  |  |
| 2011 | Doctor of Philosophy, Health Promotion and Disease Prevention  Purdue University, West Lafayette, IN  Dissertation: Dietary patterns of Pacific Northwest Tribal Nations |
|  |  |
| 2011 | Dietetic Intern, Distance-Based Program  Iowa State University, Ames, IA |
|  |  |
| 2010 | Krannert School of Management Certificate in Applied Management Principles  Purdue University, West Lafayette, IN |
|  |  |
| 2008 | Graduate Summer Session in Epidemiology  University of Michigan, Ann Arbor, MI |
|  |  |
| 2007 | Master of Science, Foods and Nutrition  Purdue University, West Lafayette, IN  Thesis: Acculturation and overweight: A longitudinal study among Asian and Hispanic early adolescent girls |
|  |  |
| 2004 | Bachelor of Arts, Biology, Double Minor: Native American Studies and Sociology  Dartmouth College, Hanover, NH  Independent Study: Healing journey from “sugar.” Native empowerment through health |

**Licenses**

|  |  |
| --- | --- |
| Present - 2014 | Licensed Dietitian  State of Hawai‘i OHCA License # 74-LD |
|  |  |
| Present - 2011 | Registered Dietitian  Commission on Dietetic Registration License # 1079928 |

**PROFESSIONAL POSITIONS**

|  |  |
| --- | --- |
| Present – 2019 | Associate Professor, Human Nutrition, Department of Human Nutrition, Food and Animal Sciences, University of Hawaiʻi at Mānoa |
|  |  |
| Present – 2016 | Cooperating Graduate Faculty (Level 3), Biomedical Sciences – Clinical Research, University of Hawaiʻi at Mānoa |
|  |  |
| Present – 2015 | Children’s Healthy Living Summer Institute Director |
|  |  |
| Present - 2014 | Full Graduate Faculty Member, Intercollege Nutrition PhD Program, University of Hawaiʻi at Mānoa |
|  |  |
| Present – 2012 | Associate Graduate Faculty Member, Nutritional Sciences MS Program, University of Hawaiʻi at Mānoa |
|  |  |
| 2014 - 2019 | Assistant Professor, Human Nutrition, Department of Human Nutrition, Food and Animal Sciences, University of Hawaiʻi at Mānoa |
|  |  |
| 2017 – 2011 | Assistant Program Director, Training Program Lead & Situational Analysis Co-Lead, Children’s Healthy Living (CHL) Program for Remote Underserved Minority Populations In The Pacific Region, University of Hawaiʻi at Mānoa |
|  |  |
| 2016 | Dietetics Program Director, Department of Human Nutrition, Food and Animal Sciences, University of Hawaiʻi at Mānoa |
|  |  |
| 2016 - 2014 | Assistant Graduate Chair and Assessment Coordinator, Intercollege Nutrition PhD Program, University of Hawaiʻi at Mānoa |
|  |  |
| 2014 - 2013 | Assistant to the Chair, Intercollege Nutrition PhD Program, University of Hawaiʻi at Mānoa |
|  |  |
| 2014 - 2013 | Associate Graduate Faculty Member, Intercollege Nutrition PhD Program, University of Hawaiʻi at Mānoa |
|  |  |
| 2011 – 2007 | Dietary Data Coordinator, Communities Advancing the Studies of Tribal Nations Across the Lifespan (CoASTAL) Cohort, Purdue University |
|  |  |
| 2007 – 2005 | Graduate Research Assistant, Adequate Calcium Today (ACT) Study/Eat Move Learn (EML) Study, Purdue University |
|  |  |
| 2005 – 2004 | Research Assistant, Cancer Research Center of Hawaiʻi |
|  |  |
| 2003 | Intern, Congressman Neil Abercrombie D-HI, Washington, D.C. |

**HONORS AND AWARDS**

**Professional**

*As Associate Professor*

|  |  |
| --- | --- |
| 2019 – 2021 | Academy for Nutrition and Dietetics Diversity Leader |
|  |  |
| 2019 – 2021 | College of Tropical Agriculture and Human Resources Leadership Academy Cohort 1 Member |

*As Assistant Professor*

|  |  |
| --- | --- |
| 2016 | Oceanic Nutrition Leadership Program Inaugural Course Attendee  Nutrition Society of Australia  Riversdale, Bundanon, New South Wales, Australia, October 2 – 10, 2016 |
|  |  |
| 2016 | 110th Anniversary Diamond of the Department  Purdue University Foods and Nutrition Department |
|  |  |
| 2015 | American Society for Nutrition Minority and Diversity Affairs Committee Young Minority Investigator Oral Competition Finalist  Experimental Biology 2015, Boston MA, March 28 – April 1, 2015 |

*Prior to UHM*

|  |  |
| --- | --- |
| 2011 | Purdue University’s “5 Students Who” Honoree |
|  |  |
| 2010 | George Parker Student Excellence Award, Native American Educational and Cultural Center, Purdue University |
|  |  |
| 2009 | The Society for the Advancement of Chicanos and Native Americans in Science (SACNAS) oral presentation award (first place), Marine, Biology, Health/Medicine, and Polar Science category, 2009 SACNAS National Conference, Dallas, TX, October 15-18, 2009 |
|  |  |
| 2009 | Certificate of Scholarship, College of Consumer and Family Sciences Diversity Fair, Purdue University |
|  |  |
| 2004 | Department of Native American Studies King Philip Writing Award, Dartmouth College |

**Travel**

*As Assistant Professor*

|  |  |
| --- | --- |
| 2019 | University of Hawaiʻi Research Council Faculty Travel Award  Society for Nutrition Education and Behavior Conference, Orlando FL, July 27 – 30, 2019 |
|  |  |
| 2017 | University of Hawaiʻi Research Council Faculty Travel Award  Society for Nutrition Education and Behavior Conference, Washington DC, July 20 – 24, 2017 |
|  |  |
| 2016 | Simplot Travel Scholarship  Oceanic Nutrition Leadership Program Inaugural Course, Nutrition Society of Australia  Riversdale, Bundanon, New South Wales, Australia, October 2 – 10, 2016 |
|  |  |
| 2016 | University of Hawaiʻi Research Council Faculty Travel Award  Society for Nutrition Education and Behavior Conference, San Diego CA, July 30 – August 2, 2016 |
|  |  |
| 2015 | Society for Nutrition Education and Behavior Foundation Community Scholarship  Society for Nutrition Education and Behavior Conference, Pittsburgh PA, July 25 – 28, 2015 |
|  |  |
| 2015 | University of Hawaiʻi Research Council Faculty Travel Award  Experimental Biology 2015, Boston MA, March 28 – April 1, 2015 |

*As Junior Researcher*

|  |  |
| --- | --- |
| 2014 | University of Hawaiʻi Research Council Faculty Travel Award  Experimental Biology 2014, San Diego CA, April 26-30, 2014 |
|  |  |
| 2013 | The Federation of American Societies for Experimental Biology (FASEB)/Minority Access to Research Careers (MARC) Program Travel Award  Experimental Biology 2013, Boston MA, April 20-24, 2013 |
|  |  |
| 2013 | University of Hawaiʻi Research Council Faculty Travel Award  Experimental Biology 2013, Boston MA, April 20-24, 2013 |

*Prior to UHM*

|  |  |
| --- | --- |
| 2009 | Purdue Graduate Student Government Travel Award  5th Symposium on Harmful Algae in the U.S., Ocean Shores, WA, November 15-18, 2009 |
|  |  |
| 2009 | SACNAS Travel Award  2009 SACNAS National Conference, Dallas, TX, October 15-18, 2009 |
|  |  |
| 2009 | The Federation of American Societies for Experimental Biology (FASEB)/Minority Access to Research Careers (MARC) Program Travel Award  Experimental Biology 2009, New Orleans, LA, April 18-22, 2009 |
|  |  |
| 2008 | Purdue Graduate Student Government Travel Award  Experimental Biology, San Diego, CA, April 7, 2008 |

**Teaching**

*As Associate Professor*

|  |  |
| --- | --- |
| 2020 | Academy for Nutrition and Dietetics Diversity and Inclusion (D&I) Action Award for the University of Hawaiʻi at Mānoa Didactic Program in Dietetics |
|  |  |
| 2020 | College of Tropical Agriculture and Human Resources Excellence in Teaching Award |
|  |  |
| 2019 | Nomination, University of Hawai‘i at Mānoa Excellence in Teaching Award |

*As Assistant Professor*

|  |  |
| --- | --- |
| 2015 | Nomination, University of Hawai‘i at Mānoa Excellence in Online Teaching Student Nominated Award |
|  |  |
| 2014 | Nomination, University of Hawai‘i at Mānoa Excellence in Teaching Award |

*As Junior Researcher*

|  |  |
| --- | --- |
| 2013 | Nomination, University of Hawai‘i at Mānoa Excellence in Online Teaching Student Nominated Award |

**Research**

*As Associate Professor*

|  |  |
| --- | --- |
| 2020 - 2022 | Ola HAWAII/JABSOM Infrastructure Support, University of Hawai‘i at Mānoa |

**Fellowships & Scholarships**

*Prior to UHM*

|  |  |
| --- | --- |
| 2011 | Iowa State University Dietetic Internship Cahill Scholarship |
|  |  |
| 2011 – 2010 | Purdue University Graduate Fellowship |
|  |  |
| 2011 – 2007 | Alfred P. Sloan Foundation Indigenous Graduate Program Scholar: Purdue University |
|  |  |
| 2010 – 2008 | Indiana Clinical and Translational Sciences Institute (CTSI) Pre-Doctoral Traineeship in Translational Research PHS (NCCR) Grant No TL1RR025759: Purdue University |
|  |  |
| 2010 – 2005 | Hans and Clara Zimmerman Foundation Scholarship Recipient: Purdue University |
|  |  |
| 2008 – 2007 | Purdue University Graduate Fellowship |
|  |  |
| 2008 – 2007 | Kamehameha Schools Na Hoʻokama Scholarship Recipient: Purdue University |
|  |  |
| 2007 – 2006 | Kamehameha Schools Imi Naʻauao Scholarship Recipient: Purdue University |
|  |  |
| 2007 – 2006 | Hawaiʻi Community Foundation Ida M. Pope Trust Scholarship Recipient: Purdue University |
|  |  |
| 2007 – 2005 | Purdue University Andrews Graduate Fellow |

**SERVICE**

**Committee Memberships**

|  |  |
| --- | --- |
| **International** |  |
| Present - 2017 | Oceanic Nutrition Leadership Platform Course Work Group Member |
|  |  |
| 2016 | 23rd International Union of Nutritional Sciences (IUNS) International Congress of Nutrition Organizing Committee Member |
|  |  |
| **National** |  |
| Present - 2016 | Society for Nutrition Education and Behavior State Ambassador |
|  |  |
| 2015 - 2013 | At-Large Delegate, Young Professional Interest Group (YPIG) Executive Board, American Society for Nutrition (ASN) |
|  |  |
| **University** |  |
| 2020 – Present | Hawaiian, Asian, and Pacific Faculty Learning Community, University of Hawaiʻi System |
|  |  |
| 2018 - 2015 | General Education Committee Hawaiian, Asian, and Pacific Issues Focus Board (Chair 2017 – 2018, Co-Chair 2016 – 2017), University of Hawaiʻi at Mānoa |
|  |  |
| 2015 | Nā Pua No‘eau Ke Ola Mau Advisory Committee, University of Hawaiʻi at Mānoa |
|  |  |
| **College** |  |
| 2018 - 2016 | College of Tropical Agriculture and Human Resources Faculty Senate Member, University of Hawaiʻi at Mānoa |
|  |  |
| 2018 - 2016 | College of Tropical Agriculture and Human Resources Faculty Senate Instructional Committee Member, University of Hawaiʻi at Mānoa |
|  |  |
| Spring 2018 | College of Tropical Agriculture and Human Resources Ad Hoc Instructional Policy Committee Member, University of Hawaiʻi at Mānoa |
|  |  |
| 2015 - 2014 | College of Tropical Agriculture and Human Resources Revenue Generation Sub-Committee, University of Hawaiʻi at Mānoa |
|  |  |
| **Departmental** |  |
| 2020 - 2022 | Department of Human Nutrition, Food, and Animal Sciences Department Personnel Committee, 2nd Alternate |
|  |  |
| Present – 2014 | Department of Human Nutrition, Food, and Animal Sciences Instructional Committee |
|  |  |
| Present - 2017 | Nutritional Sciences MS Admission Committee |
|  |  |
| 2016 | Building a Food Environment Community of Practice Workshop Organizing Committee |
|  |  |
| 2016 | Department of Human Nutrition, Food, and Animal Sciences Scholarship Committee |
|  |  |
| 2017 - 2015 | Hawai‘i Foods Advisory Committee |
|  |  |
| 2016 - 2015 | Food Science and Human Nutrition Council Mentoring Hui External Advisor |
|  |  |
| **Local** |  |
| Present - 2019 | Queen Julia Kapiolani Hawaiian Civic Club Member |
|  |  |
| Present - 2017 | Hawai‘i Academy for Nutrition and Dietetics, President (2018-2019), President-Elect (2017-2018) |
|  |  |
| 2017 - 2016 | Papa Ola Lokahi E Ola Mau Nutrition and Dental Health Committee Member |

*Prior to UHM*

|  |  |
| --- | --- |
| 2010 – 2009 | Student Representative, Department of Health & Kinesiology Preliminary Exam Committee Purdue University |
|  |  |
| 2009 | Member, Selection Committee for the Director of the Native American Educational and Cultural Center (NAECC). Purdue University |

**Award/Grant Review Panels**

*As Assistant Professor*

|  |  |
| --- | --- |
| 2016 | Mānoa Career Center Cooperative Education Program Outstanding Student and Supervisor Selection Committee, University of Hawaiʻi at Mānoa |
|  |  |
| 2015 | American Society for Nutrition YPIG. Postdoctoral Research Award Competition Abstract Reviewer |

*As Junior Researcher*

|  |  |
| --- | --- |
| 2014 | American Society for Nutrition YPIG. Postdoctoral Research Award Competition Abstract Reviewer |

*Prior to UHM*

|  |  |
| --- | --- |
| 2010, 2008 | Purdue Graduate Student Government (PGSG). PGSG Grant Committee Reviewer |
|  |  |
| 2009 | Southern Regional Education Board (SREB) Grant Proposal. SREB Grant Reviewer |

**Invited Panel Presenter**

*As Assistant Professor*

|  |  |
| --- | --- |
| 2019 | Building a Native Hawaiian Dietetic Workforce for the Health and Well-being of the Lāhui.  ʻAha ‘Imi Na‘auao: Hawaiian Knowing and Wellbeing. UH West Oʻahu Institute of Engaged Scholarship. February 22, 2019. Kapolei, HI |
|  |  |
| 2019 | Nutrition and Dietetics. Health Career Academy Panel. Hawaii/Pacific Basin Area Health Education Center. February 7 (Nānākuli, HI) and February 9 (Honolulu, HI), 2019 |
|  |  |
| 2018 | Nutrition & Dietetics: Re-envisioning & Regenerating the Pathway. Re-envisioning & Regenerating Agriculture Education Through P-20 Partnerships. Sustainable Agriculture Education Association 2018 Conference. July 27, 2018. Kapolei, HI |
|  |  |
| 2018 | OER Adoptions and What it Takes to Go Open. Open Education Week 2018. March 8, 2018. Honolulu, HI |
|  |  |
| 2016 | Addressing the Childhood Obesity Crisis in the Pacific: What the data is telling us. Assessing the USAPI NCD Response since 2010: What more needs to be done? Pacific Island Health Officers Association 60th Executive Board Meeting. August 30, 2016.  Honolulu, HI |
|  |  |
| 2016 | Place-Based Learning in Introductory Courses. Boosting Enrollment: Successful Recruitment Courses in Food and Agricultural Sciences. North American Colleges and Teachers of Agriculture 2016 Conference. June 24, 2016. Honolulu HI |
|  |  |
| 2015 | Shining the Light on Asian American, Native Hawaiian, and Pacific Islander Health:  Focus on Childhood Obesity. Journal of Health Care for the Poor and Underserved  Supplement on Asian American, Native Hawaiian, and Pacific Islander Health Release.  June 10, 2015. Washington DC |

**Invited Guest Speaker**

*As Assistant Professor*

|  |  |
| --- | --- |
| 2020 | Kūlana ʻaiaola: So ʻOno! University of Hawai‘i at Mānoa Native Hawaiian Student Services Bookshelf Series. May 7, 2020. Honolulu, HI |
|  |  |
| 2019 | Exploring the Complementary Feeding Practices of Native Hawaiian, Pacific Islander and  Filipino Infants. University of Hawai‘i Cancer Center. April 2, 2019. Honolulu, HI |
|  |  |
| 2018 | Na Mo‘olelo o Ko Kakou Kupuna: Native Hawaiian Oral Histories Related to Breastfeeding. 2018 Global Neonatal Nurses Institute. November 2, 2018. Honolulu, HI |
|  |  |
| 2018 | Nutrition and Dietetics. Waialua High School Career Day. March 28, 2018. Waialua, HI |
|  |  |
| 2016 | Child obesity prevention efforts in the US Affiliated Pacific. International Visitor Leadership Program’s Obesity, Nutrition, and Non-Communicable Diseases Regional Project for the Pacific Islands (New Zealand, Samoa, Cook Islands, Republic of the Marshall Islands, Federated States of Micronesia, Palau, Nauru, Niue, Tonga, Tuvalu). October 18, 2016. Honolulu, HI |
|  |  |
| 2015 | Maryknoll School National Junior Honor Society Induction Ceremony (Congratulatory Speech). December 1, 2015. Honolulu, HI |
|  |  |
| 2015 | Houston Asian American and Pacific Islander Health Summit. November 20, 2015. Houston, TX |
|  |  |
| 2015 | Purdue University Native American Educational and Cultural Center Indigenous Alumni Speaker Series Event.  November 5 - 6, 2015. West Lafayette, IN |

**Journal Guest Editor**

*As Associate Professor*

|  |  |
| --- | --- |
| 2020 | Nutrients Special Issue “Nutrition among Vulnerable Populations” |

**Journal Peer Reviewer**

*As Assistant Professor*

|  |  |
| --- | --- |
| 2018 | Current Developments in Nutrition |
|  |  |
| 2017 | Journal of Nutrition Education and Behavior |
|  |  |
| 2016 | PLOS ONE |
|  |  |
| 2015 | BMC Public Health |
|  |  |
|  | Maternal and Child Health |
|  |  |
| 2014 | American Quarterly |

*As Junior Researcher*

|  |  |
| --- | --- |
| 2014 | Contemporary Clinical Trials |
|  |  |
|  | Preventing Chronic Disease |

*Prior to UHM*

|  |  |
| --- | --- |
| 2012, 2011 | Ethnicity and Health |

**Professional Associations**

|  |
| --- |
| Academy of Nutrition and Dietetics (AND) |
|  |
| American Society for Nutrition (ASN) |
|  |
| Hawaiʻi Academy of Nutrition and Dietetics (HAND) |
|  |
| Hawai‘i Public Health Association (HPHA) |
|  |
| Society for Nutrition Education and Behavior (SNEB) |

**INSTRUCTION**

**Courses Taught at the University of Hawai‘i at Mānoa**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Year | Semester | Dept | Crs # | Course Title | #Credits | # Students |
| 2012 | Fall | FSHN | 699 | Directed Reading & Research | 1 | 1 |
| 2013 | Spring | FSHN | 699 | Directed Reading & Research | 2 | 1 |
| 2013 | Summer | FSHN | 699 | Directed Reading & Research | 3 | 1 |
| 2013 | Fall | FSHN | 699 | Directed Reading & Research | 4 | 1 |
| 2013 | Fall | FSHN | 185 | The Science of Human Nutrition (Outreach College) | 3 | 23 |
| 2014 | Spring | FSHN | 699 | Directed Reading & Research | 4 | 1 |
| 2014 | Summer | FSHN | 700 | Thesis Research | 6 | 1 |
| 2014 | Fall | FSHN | 185 | The Science of Human Nutrition | 3 | 61 |
| 2014 | Fall | FSHN | 185 | The Science of Human Nutrition (Outreach College) | 3 | 12 |
| 2014 | Fall | FSHN | 389 | Nutritional Assessment | 3 | 20 |
| 2014 | Fall | FSHN | 499 | Directed Reading & Research | 5 | 4 |
| 2014 | Fall | FSHN | 700 | Thesis Research | 4 | 1 |
| 2015 | Spring | FSHN | 185 | The Science of Human Nutrition | 3 | 75 |
| 2015 | Spring | FSHN | 389 | Nutritional Assessment | 3 | 22 |
| 2015 | Spring | FSHN | 499 | Directed Reading & Research | 5 | 5 |
| 2015 | Spring | FSHN | 700 | Thesis Research | 1 | 1 |
| 2015 | Summer | FSHN | 185 | The Science of Human Nutrition | 3 | 37 |
| 2015 | Summer | BIOM | 699 | Directed Reading & Research | 1 | 1 |
| 2015 | Fall | FSHN | 185 | The Science of Human Nutrition | 3 | 59 |
| 2015 | Fall | FSHN | 389 | Nutritional Assessment | 2 | 16 |
| 2015 | Fall | FSHN | 499 | Directed Reading & Research | 6 | 6 |
| 2015 | Fall | BIOM | 699 | Directed Reading & Research | 1 | 1 |
| 2016 | Spring | FSHN | 185 | The Science of Human Nutrition | 3 | 30 |
| 2016 | Spring | FSHN | 499 | Directed Reading & Research | 3 | 3 |
| 2016 | Spring | BIOM | 699 | Directed Reading & Research | 1 | 1 |
| 2016 | Summer | FSHN | 185 | The Science of Human Nutrition | 3 | 43 |
| 2016 | Summer | FSHN | 491 | Topics in Food Science and Human Nutrition | 1 | 11 |
| 2016 | Fall | FSHN | 185 | The Science of Human Nutrition | 1 | 58 |
| 2016 | Fall | FSHN | 499 | Directed Reading & Research | 3 | 3 |
| 2016 | Fall | BIOM | 800 | Dissertation Research | 2 | 1 |
| 2017 | Spring | BIOM | 800 | Dissertation Research | 2 | 1 |
| 2017 | Summer | FSHN | 455 | Childhood Anthropometric & Dietary Assessment Field Techniques | 1 | 11 |
| 2017 | Summer | FSHN | 370 | Lifespan Nutrition | 3 | 19 |
| 2017 | Fall | FSHN | 389 | Nutritional Assessment | 2 | 20 |
| 2017 | Fall | FSHN | 370 | Lifespan Nutrition | 3 | 19 |
| 2017 | Fall | FSHN | 499 | Directed Reading & Research | 1 | 1 |
| 2017 | Fall | FSHN | 699 | Directed Reading & Research | 2 | 2 |
| 2018 | Spring | FSHN | 389 | Nutritional Assessment | 2 | 20 |
| 2018 | Spring | FSHN | 370 | Lifespan Nutrition | 3 | 17 |
| 2018 | Spring | FSHN | 499 | Directed Reading & Research | 6 | 3 |
| 2018 | Spring | FSHN | 699 | Directed Reading & Research | 12 | 3 |
| 2018 | Summer | FSHN | 457 | Culture and Child Health in the Pacific | 3 | 13 |
| 2018 | Fall | FSHN | 700 | Thesis Research | 4 | 1 |
| 2018 | Fall | FSHN | 699 | Directed Reading & Research | 7 | 4 |
| 2018 | Fall | FSHN | 499 | Directed Reading & Research | 5 | 5 |
| 2019 | Spring | FSHN | 389 | Nutritional Assessment | 3 | 20 |
| 2019 | Spring | FSHN | 370 | Lifespan Nutrition | 3 | 20 |
| 2019 | Spring | FSHN | 499 | Directed Reading & Research | 5 | 5 |
| 2019 | Spring | FSHN | 699 | Directed Reading & Research | 4 | 4 |
| 2019 | Summer | FSHN | 457 | Culture and Child Health in the Pacific | 3 | 18 |
| 2019 | Summer | FSHN | 370 | Lifespan Nutrition | 3 | 11 |
| 2019 | Fall | FSHN | 389 | Nutritional Assessment | 3 | 13 |
| 2019 | Fall | FSHN | 370 | Lifespan Nutrition | 3 | 20 |
| 2019 | Fall | FSHN | 499 | Directed Reading & Research | 4 | 4 |
| 2019 | Fall | FSHN | 699 | Directed Reading & Research | 4 | 4 |
| 2020 | Spring | FSHN | 389 | Nutritional Assessment | 3 | 19 |
| 2020 | Spring | FSHN | 370 | Lifespan Nutrition | 3 | 19 |
| 2020 | Spring | FSHN | 499 | Directed Reading & Research | 4 | 3 |
| 2020 | Spring | FSHN | 699 | Directed Reading & Research | 17 | 6 |
| 2020 | Summer | FSHN | 370 | Lifespan Nutrition | 3 | 17 |
| 2020 | Summer | FSHN | 457 | Culture and Child Health in the Pacific | 3 | 9 |
| 2020 | Fall | FSHN | 499 | Directed Reading & Research | 4 | 4 |
| 2020 | Fall | FSHN | 699 | Directed Reading & Research | 3 | 3 |
| 2020 | Fall | FSHN | 700 | Thesis | 1 | 1 |
| 2020 | Fall | FSHN | 800 | Dissertation | 1 | 1 |

**New Course Approval**

|  |  |
| --- | --- |
| 2017 | FSHN 360 Applied Professional Skills in Nutrition |
|  |  |
| 2016 | FSHN 454 Foundations of Childhood Obesity Prevention in the Pacific (3 credits) – Effective Summer 2018  FSHN 455 Childhood Anthropometric and Dietary Assessment Field Techniques (1 credit) – Effective Summer 2017  FSHN 456 Child Health and Nutrition Monitoring (1 credit) – Effective Summer 2017  FSHN 457 Culture and Child Health in the Pacific (3 credits) – Effective Summer 2018 |

**General Education Assignment**

|  |  |
| --- | --- |
| **Designation** | **Course** |
| Hawai‘i, Asia, and Pacific (HAP) | FSHN 185: The Science of Human Nutrition  FSHN 457: Culture and Child Health in the Pacific |
|  |  |
| Writing Intensive (W) | FSHN 370: Lifespan Nutrition  FSHN 389: Nutritional Assessment  FSHN 457: Culture and Child Health in the Pacific |

**Other non-University of Hawai‘i at Mānoa Instructional Experience**

|  |  |  |
| --- | --- | --- |
| 2010 | Teaching Assistant: Foods & Nutrition. Purdue University  Food Chemistry (453)  Diet Selection and Planning (330)  Geriatric Nutrition (580)  Food Science I (205) | |
|  |  |  |
| 2009 | Teaching Assistant. Foods & Nutrition 436: Nutritional Assessment. Purdue University | |
|  |  |  |
| 2009 | Tutor. Foods and Nutrition 303: Essentials of Human Nutrition. Purdue Intercollegiate Athletic Department. Purdue University | |
|  |  |  |
| 2008 | Teaching Assistant. Foods & Nutrition 105: Current Issues in Nutrition and Food Safety. Purdue University | |
|  |  |  |
| 2008 | Teaching Assistant. Health & Kinesiology 490M: Sports Physiology and Marathon Training. Purdue University | |

**Guest Lecturer**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dept | Semester | Year | Crs # | Course Title | Lecture Title | Instructor |
| *As Associate Professor* | | | | | | |
| HDFS | Fall | 19 | 3 | Infancy & Early Childhood | Infant Nutrition | Kuwahara R |
| *As Assistant Professor* | | | | | | |
| NURS | Fall | 18 | 210 | Health Promotion Across the Lifespan | Native Hawaiian Health Disparities | Siegman, W & Ng-Osorio, J |
| FSHN | Spring | 16 | 686 | Child and Adolescent Nutrition | Systematic Review of Prevalence of Young Child  Overweight and Obesity in the United States–Affiliated  Pacific Region Compared With the 48 Contiguous States:  The Children’s Healthy Living Program | Banna, J |
| BIOM | Spring | 15 | 646 | Clinical Research Seminar | Children’s Healthy Living Program for Remote Underserved Minority Populations of the Pacific Region (CHL) | Rodriquez, B |
| FSHN | Fall | 14 | 491 | Topics: CHL Seminar | Community Engagement of the Children’s Healthy Living Program | Leslie, J |
| PH | Fall | 14 | 675 | Community Engaged Research and Practice | Using Community Engagement for Program Development in the Pacific: the Children’s Healthy Living Program | Delormier, T |
| HON | Fall | 14 | 101 | Honors 101: Introduction to Research at Mānoa. | Ko‘u Huaka‘i o Kulana Ai‘ola: My Nutrition Journey | Stewart, M |
| FSHN | Fall | 14 | N/A | University of Hawai‘i Supervised Practice Program | Children’s Healthy Living Program for Remote Underserved Minority Populations of the Pacific Region (CHL) | Ditzler, A |
| *As Junior Researcher* | | | | | | |
| FSHN | Fall | 13 | 491 | Topics: CHL Seminar | Community Engagement of the Children’s Healthy Living Program | Leslie, J |
| FSHN | Fall | 13 | N/A | University of Hawai‘i Supervised Practice Program | Children’s Healthy Living Program for Remote Underserved Minority Populations of the Pacific Region (CHL) | Ditzler, A |
| FSHN | Fall | 12 | 491 | Topics: CHL Seminar | Diet, Obesity & the Pacific | Leslie, J |
| FSHN | Fall | 12 | 185 | The Science of Human Nutrition (Windward Community College) | Introduction (1 class); Healthy Diets (1 class); Carbohydrates (1 class) | Boyd, J |
| *Prior to UHM* | | | | | | |
| NUTR | Fall | 10 | 330 | Diet Selection and Planning (Purdue University) | Influence of Native American culture on diet | Mobley, M |
| NUTR | Fall | 09 | 330 | Diet Selection and Planning (Purdue University) | Influence of Native American culture on diet | Mobley, M |

**Advising**

**Undergraduate Students: Project Advisor**

|  |  |
| --- | --- |
| Current | Christina Gar Lai Young, ‘Ōiwi Undergraduate Research Fellowship, expected graduation Spring 2021 |
|  |  |
| Previous | Sally Campbell, Trinity College Dublin Human Nutrition Dietetics Senior Research Project, graduated Spring 2020 |
|  |  |
| Previous | Keala Swafford, ‘Ōiwi Undergraduate Research Fellowship, graduated Spring 2019 |
|  |  |
| Previous | Samuel Foulchag, Children’s Healthy Living Program |
|  |  |
| Previous | Trisha Johnson, Children’s Healthy Living Program, graduated Fall 2015 |

**Graduate Students: Committee Chair**

|  |  |
| --- | --- |
| Current | Jessie Kai, PhD (Nutrition), expected graduation Fall 2020 |
|  |  |
| Current | Brytni Kalei K-aloha, MS (Nutritional Sciences), expected graduation TBD |
|  |  |
| Current | Geneva Mau, MS (Nutritional Sciences), expected graduation Spring 2021 |
|  |  |
| Current | Ric Barron, PhD (Nutrition), expected graduation Spring 2022 |
|  |  |
| Current | Allison Calabrese, PhD (Nutrition), expected graduation Spring 2023 |
|  |  |
| Current | Amanda Dentinger, MS (Nutritional Sciences), expected graduation Spring 2021 |
|  |  |
| Previous | Tyra Fonseca, MS (Nutritional Sciences), withdrew |
|  |  |
| Previous | Allison Calabrese, MS (Nutritional Sciences), graduated Spring 2019 |
|  |  |
| Previous | Cynthia Kahalewale, PhD (Clinical Research), graduated Spring 2017  Recipient of $10,000 Academy of Nutrition and Dietetics Foundation Scholarship |
|  |  |
| Previous | Lenora Matanane, MS (Nutritional Sciences), graduated Spring 2015  Third Place, Post-doctoral/Student Community Nutrition/Public Health Poster Competition, Experimental Biology 2014 |

**Graduate Students: Dissertation/Thesis/Project Committee Member**

|  |  |
| --- | --- |
| Current | Samantha Keaulana-Scott, PhD (Public Health), expected graduation Spring 2021 |
|  |  |
| Current | Michelle Laguana, PhD (Nutrition), expected graduation Spring 2021 |
|  |  |
| Previous | Solange Saxby, PhD (Nutrition), graduated Fall 2020 |
|  |  |
| Previous | Ashley Yamanaka, PhD (Epidemiology), graduated Spring 2020 |
|  |  |
| Previous | Beth Tillinghast, PhD (Learning Design & Technology), graduated Spring 2020 |
|  |  |
| Previous | Chenchen Zhao, MS (Nutritional Sciences), graduated Spring 2019 |
|  |  |
| Previous | Cheryl Gibby, PhD (Nutrition), graduated Spring 2018 |
|  |  |
| Previous | Yannica Theda Martinez, MS (Nutritional Sciences), graduated Summer 2015 |
|  |  |
| Previous | Monica Esquivel, PhD (Nutrition), graduated Spring 2015 |
|  |  |
| Previous | Michelle Mosley, PhD (Nutrition), graduated Spring 2015 |

**Graduate Students: Qualifying Examination Committee**

|  |  |
| --- | --- |
| Previous | Solange Saxby, PhD (Nutrition), Spring 2018 |
|  |  |
| Previous | Teresa Lemoon, MS (Nutritional Sciences), Spring 2018 |
|  |  |
| Previous | Jessie Kai, MS (Nutritional Sciences), Spring 2016 |

**Graduate Students: Practicum Advisor**

|  |  |
| --- | --- |
| Previous | Kalanikiekie Sherry, MPH (Epidemiology), Summer 2015 – Spring 2016 |

**Extension/Outreach**

**Plan of Work (POW)**

|  |  |
| --- | --- |
| 2020 - 2014 | Project #14-230: Enhancing Capacity to Address Obesity in the Pacific |

**Workshops**

*As Associate Professor*

Local

|  |  |
| --- | --- |
| 2019 | ‘Ai Pono (December 2 and 9), Provided an ‘Ai Pono Workshop for 96 Juniors and Seniors at Kamehameha Schools - Kāpalama |
|  |  |
| 2019 | Wai No Ka Oi (October 3), Provided a Wellness Workshop for 19 Po‘i Nā Nalu participants at Honolulu Community College |

*As Assistant Professor*

International

|  |  |
| --- | --- |
| 2016 | Adult Field Nutrition Assessment Techniques, Republic of Palau Non-communicable Disease Program (May 2 – 4), Trained 30 participants from the Adult Non-Communicable Disease Hybrid Survey Team |
|  |  |
| 2016 | Adult Field Nutrition Assessment Techniques, Commonwealth of the Northern Marianas Island Non-Communicable Disease Program (Jan 18 – 20), Trained 17 participants from the Adult Non-Communicable Disease Survey Team |
|  |  |
| 2016 | Infant Field Nutrition Assessment Techniques, Northern Marianas College (Jan 19 – 20), Trained 2 participants from the Expanded Food and Nutrition Education Program |
|  |  |
| 2015 | Child Field Nutrition Assessment Techniques, Chuuk Department of Public Health (May 21 - 22), Trained 8 participants from Department of Public Health, Early Childhood Education Center, and Non-communicable Disease Coalition, REACH |
|  |  |
| 2015 | Child Field Nutrition Assessment Techniques, Kosrae Department of Public Health (Jan 19 - 20), Trained 8 participants from Department of Public Health, Early Childhood Education Center, and Expanded Food and Nutrition Education Program |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, Northern Marianas College (Dec 10 - 13), Trained 25 participants from Northern Marianas College, Expanded Food and Nutrition Education Program, and Marianas Health Services |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, American Samoa Community College (Nov 18 - 21), Trained 14 participants from American Samoa Community College and American Samoa Cooperative Extension Service |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, University of Guam (Oct 13 - 15), Trained 15 participants from University of Guam and Guam Cooperative Extension Service |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, Yap State Hospital (Sep 1 - 5), Trained 7 participants from Yap Department of Public Health, Yap State Hospital Quality Assurance and the Ulithi Health Center |

National

|  |  |
| --- | --- |
| 2014 | Child Field Nutrition Assessment Techniques, University of Alaska at Fairbanks (Oct 23 - 25), Trained 9 participants from University of Alaska at Fairbanks and Alaska Cooperative Extension Service |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, Alaska Cooperative Extension Service (Oct 23 - 25), Trained 9 participants from University of Alaska at Anchorage and Alaska Cooperative Extension Service |

Local

|  |  |
| --- | --- |
| 2018 | ‘Ai Pono Foods in Hawaiian Focused Charter Schools, Kamehameha Schools (April 27), Facilitated meeting to establish project objectives with 11 participants from agencies like Kamehameha Schools, Blue Zones, HMSA Foundation, Hale Ke Aloha, and Mālama Honua |
|  |  |
| 2015 | Child Field Nutrition Assessment Techniques, Hawai‘i Community Action Program (HCAP) Head Start (July 20), Trained 8 participants from HCAP Head Start |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, University of Hawai‘i at Mānoa (Jan 6 - 8), Trained 12 participants from the University of Hawai‘i at Mānoa |
|  |  |
| 2014 | Child Field Nutrition Assessment Techniques, University of Hawai‘i at Mānoa (Dec 2 – 4), Trained 6 participants from the University of Hawai‘i at Mānoa, the Kosrae Department of Public Health, and the Kosrae Early Childhood Education Center |
|  |  |
| 2014 | Nutrition Education Session Encouraging Local Fruits and Vegetables, Waiāhole-Waikāne Taste of the Valley (Oct 21), Outreach session to 47 community members from the Waiāhole-Waikāne Area on Oahu |
|  |  |
| 2014 | Focus Designations: Unlikely Applications, Department of Human Nutrition, Food, and Animal Sciences (Sept 17), Trained 7 participants from University of Hawai‘i at Mānoa College of Tropical Agriculture and Human Resources (Instructional Innovations Workshop Series) |

*As Junior Researcher*

International

|  |  |
| --- | --- |
| 2014 | Child Field Nutrition Assessment Techniques, Palau Community College (Apr 1 - 3), Trained 9 participants from Palau Early Childhood Education |
|  |  |
| 2013 | Child Field Nutrition Assessment Techniques, Island Food Community of Pohnpei (Aug 26 - 28), Trained 5 participants from Island Food Community of Pohnpei, Pohnpei Department of Public Health, Pohnpei Early Childhood Education Center, CHL Yap, and CHL Chuuk |
|  |  |
| 2013 | Child Field Nutrition Assessment Techniques, International Conference Center of the Marshall Islands (Jul 8 - 10), Trained 9 participants from Kijile, Island Food Community of Pohnpei, CHL Yap, and CHL Chuuk |
|  |  |
| 2013 | Child Field Nutrition Assessment Techniques, Island Food Community of Pohnpei (Apr 29 - 30), Trained 7 participants from Island Food Community of Pohnpei, Pohnpei Department of Public Health, Pohnpei Early Childhood Education Center, CHL Palau, CHL Chuuk, and CHL Marshall Islands |
|  |  |
| 2013 | Child Field Nutrition Assessment Techniques, Cliffside Hotel Pohnpei (Feb 14), Trained 5 participants from CHL Pohnpei, CHL Palau, CHL Chuuk, and CHL Marshall Islands |
|  |  |
| 2012 | Child Field Nutrition Assessment Techniques, Northern Marianas College (Sept 28), Trained 6 participants from Northern Marianas College |
|  |  |
| 2012 | Child Field Nutrition Assessment Techniques, University of Guam (Oct 1), Trained 6 participants from Guam Cooperative Extension |
|  |  |
| 2012 | Child Field Nutrition Assessment Techniques, Northern Marianas College (Oct 4), Trained 7 participants from Northern Marianas College |
|  |  |
| 2012 | Child Field Nutrition Assessment Techniques, American Samoa Community College (Nov 9, 13, & 15), Trained 9 participants from the American Samoa Community College and American Samoa Cooperative Extension |

National

|  |  |
| --- | --- |
| 2013 | Child Field Nutrition Assessment Techniques, University of Alaska at Fairbanks (Oct 14 - 16), Trained 3 participants from the University of Alaska at Fairbanks |
|  |  |
| 2013 | Child Field Nutrition Assessment Techniques, University of Alaska Cooperative Extension at Anchorage (Oct 10 - 12), Trained 9 participants from the Alaska Cooperative Extension |
|  |  |
| 2012 | Child Field Nutrition Assessment Techniques, University of Alaska at Fairbanks (Oct 23-24), Trained 8 participants from the University of Alaska at Fairbanks |

Local

|  |  |
| --- | --- |
| 2012 | Child Field Nutrition Assessment Techniques, University of Hawai‘i at Mānoa (Sept 17), Trained 8 participants from the University of Hawai‘i at Mānoa and University of Hawai‘i Cancer Center |
|  |  |
| 2012 | Child Field Nutrition Assessment Techniques, University of Hawai‘i at Mānoa (Oct 17), Trained 6 participants from the University of Hawai‘i at Mānoa and University of Hawai‘i Cancer Center |

**Resources**

*As Assistant Professor*

|  |  |
| --- | --- |
| 2015 | US Affiliated Pacific Food Guide: A Children’s Healthy Living Program Resource for Nutrition. (Version 3) Available as a website: <http://manoa.hawaii.edu/ctahr/pacificfoodguide> |
|  |  |
| 2014 | US Affiliated Pacific Food Guide: A Children’s Healthy Living Program Resource for Nutrition. (Version 2) Available as a pdf at: <http://tinyurl.com/PacificFoodGuide2ndEd> |

*As Junior Researcher*

|  |  |
| --- | --- |
| 2013 | Pacific Food Guide: A Resource for Nutrition. (Version 1) Available as a pdf at: [tinyurl.com/PacificFoodGuide](http://www.google.com/url?q=http%3A%2F%2Ftinyurl.com%2FPacificFoodGuide&sa=D&sntz=1&usg=AFQjCNFY-_wtaN6W2xnwWkLT_8OOfOhGuQ) |

**Research**

**Projects**

|  |  |
| --- | --- |
| 2021 – 2016 | Multi-State Project W1194 (Hatch 2047R). Children’s Healthy Living Network (CHLN) in the U.S. Affiliated Pacific Region  Role: Chair 2017 – 2019; Co-Investigator for Hawai‘i |
|  |  |
| 2014 – 2012 | Multi-State Project W2005. Parenting, energy dynamics, and lifestyle determinant of childhood obesity: New directions in prevention  Role: Co-Investigator for Hawai‘i |

**Grants, Awarded, External**

|  |  |
| --- | --- |
| 2018 - 2022 | Western Regional Public Health Training Center ($79,996 for University of Hawai‘i at Mānoa subcontract) (7/1/2018 – 6/30/2022)  Department of Health and Human Services, Health Resources and Services Administration  Role: Co-Investigator for University of Hawai‘i at Mānoa |
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| 2018 - 2023 | Children’s Healthy Living Dietetics Scholars Program (CHLD) ($200,000)(5/15/2018-5/14/2023)  USDA Multicultural Scholars Program  Role: Project Director |
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| 2018 - 2023 | Children’s Healthy Living Center of Excellence (CHL Center) ($2,496,293) (3/1/2018 – 2/28/2023)  USDA Agriculture and Food Research Initiative Childhood Obesity Prevention Challenge Area  Role: Co-Investigator |

**Grants, Awarded, Internal**

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| 2020 | Lifespan Nutrition OER Textbook  ($5,000)(7/2020 – 6/2021)  University of Hawai‘i at Mānoa Outreach College OER Grant Project  Role: Project Director |
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| 2019 | Innovating the Introductory Nutrition Course ($81,669)(1/2020 – 7/2021)  2019 – 2020 UHM Strategic Investment Competition  Role: Project Director |
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| 2019 | Ancillary Material Development for the Human Nutrition OER Textbook  ($5,000)(5/2019 – 6/2020)  University of Hawai‘i at Mānoa Outreach College OER Grant Project  Role: Project Director |

**Grants, Awarded, External Completed**

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| 2018 – 2020 | Building a Native Hawaiian Dietetic Workforce for the Health and Well-being of the Lāhui ($49,997)(7/1/2018-6/30/2020)  Kamehameha Schools  Role: Principal Investigator |
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| 2018 – 2019 | Healthy Living through Ai Pono in Hawaiian Communities ($15,000) (6/1/2018 – 7/31/2019), 4-H National Council Healthy Living Mini Grant  Role: Principal Investigator |
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| 2016 - 2019 | Child Health Assessment in the Pacific (CHAP) Summer Fellowship ($274,780) (2/1/2016 – 1/31/2019)  USDA Agriculture and Food Research Initiative Food, Agriculture, Natural Resources and Human Sciences Education and Literacy Initiative  Role: Co-Project Director |
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| 2018 | Exploring First Foods of Keiki on Oahu, Hawaii ($5,000)(7/1/2018 – 10/31/2018)  HMSA Foundation (CF 21803)  Role: Principal Investigator |
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| 2014 - 2015 | Translating Cultural Concepts of Food in the Pacific through an Introductory Nutrition Course ($4000) (9/1/2014 – 8/31/2015)  Association of Public and Land-Grant Universities Academic Programs Section Innovative Teaching Award  Role: Principal Investigator |

**Grants, Awarded, Internal, Completed**

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| 2017 | Na Mo‘olelo o Ko Kakou Kupuna  ($80,000)(10/1/2017 – 9/30/2019)  USDA Research (Hatch 2047R)/Extension (Smith Lever 14-230) Supplemental Funding  Role: Project Director |
|  |  |
| 2018 - 2019 | Gut Microbiome Changes During Introduction of Poi as the First Solid Food in Breastfed Infants ($12,000) (1/2018 – 7/2019)  C-MAIKI Seed Money for Collaborative Projects  Role: Multi-Principal Investigator |
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| 2018 | Exploring First Foods of Keiki on O‘ahu, Hawai‘i ($35,000) (1/1/2018-6/30/2018)  Ola HAWAII Team-Science Pilot Projects Program (NIH/NIMHD 2U54MD007601-31)  Role: Principal Investigator |
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| 2018 | Diversity in Dietetics and Nutrition: Student Recruitment Efforts to Promote a Diverse Workforce ($500)(1/1/2018-6/30/2018)  Student Equity, Excellence & Diversity Program: Inclusion, Diversity, Equity, Access and Success (SEED IDEAS)  Role: Co-Principal Investigator |
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| 2017 | Human Nutrition OER Textbook ($9,000)(1/1/2017 – 5/15/2017)  University of Hawai‘i at Mānoa Outreach College OER Grant Project  Role: Project Director |
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| 2015 - 2017 | Hatch Supplemental Funding 2038R. Minimizing Food Waste in Adolescents: Understanding Perspectives to Inform Message Design  Role: Co-Investigator |

**Grants Submitted, External**

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**Editorial-Reviewed Publications: Journals (Published)**

*As Junior Researcher*

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| Novotny R, Fialkowski MK, Areta AAR, Bersamin A, Braun K, Debaryshe B, Deenik J, Dunn M, Hollyer J, Kim J, Leon Guerrero R, Nigg CR, Takahashi R, Wilkens L. The Pacific Way to Child Wellness: The Children’s Healthy Living Program for Remote Underserved Minority Populations of the Pacific Region (CHL). Hawai‘i J Med Public Health. 2013; 72 (11): 406 - 408 |
|  |
| Wilken[s] LR, Novotny R, Fialkowski MK, Boushey CJ, Nigg C, Paulino Y, Leon Guerrero R, Luick B, Vargo D, Kim J, Deenik J. Children’s Healthy Living (CHL) Program for Remote Underserved Minority Populations in the Pacific Region: Rationale and Design of a Community Randomized Trial to Prevent Early Childhood Obesity. BMC Public Health. 2013; 13(1):944. |

**Books**

*As Associate Professor*

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| Collaborative Open Education Resource Textbook by faculty and students from the Department of Human Nutrition, Food and Animal Sciences. Human Nutrition (Version 2). Available at: <http://pressbooks.oer.hawaii.edu/humannutrition2/> |

*As Assistant Professor*

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| Collaborative Open Education Resource Textbook by faculty and students from the Department of Human Nutrition, Food and Animal Sciences. Human Nutrition (Version 1). Available at: <http://pressbooks.oer.hawaii.edu/humannutrition/> |

**Book Chapters**

*As Assistant Professor*

|  |
| --- |
| Novotny R, Li F, Wilkens LR, Fialkowski MK, Fleming T, Coleman P, Leon Guerrero RT, Bersamin A, Deenik J. Economic Influences on Child Growth Status, from the Children’s Healthy Living Program in the U.S. Affiliated Pacific Region. In: *Wealthy But Unhealthy Overweight and Obesity in Asia and the Pacific: Trends, Costs, and Policies for Better Health*. Tokyo: Asian Development Bank Institute. 2018. |

**Peer-Reviewed Publications: Journals (Published)**

*As Associate Professor*

|  |
| --- |
| Eicher-Miller H, Zhu F, Fialkowski MK. Nutrition Among Vulnerable Populations. Nutrients. 2020; 12(10):3150. |
|  |
| Campbell S\*\*, Chen J, Boushey CJ, Eicher-Miller H, Zhu F, Fialkowski MK. Food Security and Diet Quality in Native Hawaiian, Pacific Islander, and Filipino Infants 3 to 12 Months of Age. Nutrients. 2020; 12(7): 2120*.* |
|  |
| Fialkowski MK, Fonseca-Smith T\*, Pinto PK\*, Ng-Osorio J. Native Hawaiian Infant Feeding Practices as Told by Grandparents: A Transgenerational Experience. Curr Dev Nutri. *In Press*. |
|  |
| Tillinghast BH\*, Fialkowski MK, Draper J. Exploring Aspects of Open Educational Resources through OER-enabled Pedagogy. Frontiers in Education. *In Press*. |
|  |
| Fialkowski MK, Calabrese A\*, Banna JC, Stewart M, Lin MG, Novotny R. Student Perception of a Placed-Based Online Introductory Nutrition Course for the Pacific. NACTA Journal. 2020; 64. |
|  |
| Fialkowski MK, Ng-Osorio J, Kai J\*, Swafford K\*\*, Langfelder G\*\*, Young CGL\*\*, Chen JJ, Zhu FM, Boushey CJ. Type, Timing and Diversity of Complementary Foods Among Native Hawaiian, Pacific Islander, and Filipino Infants. Hawaii J Health Soc Welf. 2020; 79(5 Suppl 1): 127 – 134. |
|  |
| Fialkowski MK, Calabrese A\*, Tillinghast B, Titchenal A, Meinke W, Banna JC, Draper J. Open Educational Resource Textbook Impact on Students in an Introductory Nutrition Course. J Nutr Educ Behav. 2020; 52(4): 359 - 358. doi: 10.1016/j.jneb.2019.08.006. |

*As Assistant Professor*

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| Zhao C\*, Panizza C, Fox K, Boushey CJ, Byker Shanks C, Ahmed S, Chen S, Serrano EL, Zee J, Fialkowski MK, Banna J. Plate waste in schools: Barriers, motivators and perspectives of early adolescents in the United States. J Nutr Educ Behav*.* 2019; 51: 967-975. doi:10.1016/j.jneb.2019.05.590. |
|  |
| Novotny R, Davis J, Butel J, Boushey CJ, Fialkowski MK, Nigg CR, Braun KL, Leon Guerrero R, Coleman P, Bersamin A, Areta AAR, Barber LR, Belyeu-Camacho T, Greenberg J, Fleming T, Delacruz-Talbert E, Wilkens LR. Effect of the Children's Healthy Living Program on Young Child Overweight, Obesity and Acanthosis Nigricans in the US-Affiliated Pacific. JAMA Netw Open. 2018; 1(6):e183896. doi:10.1001/jamanetworkopen.2018.3896. |
|  |
| Endrizal CL\*, Fialkowski MK, Davis J, Yuan S, Novotny R, Delormier TW, Rodriguez B. Dietetics Practice in the Unique, Culturally Diverse Pacific Island Region. Hawaii J Med Public Health. 2018; 77(6): 7 - 15. |
|  |
| Mosley M\*, Banna J, Lim E, Fialkowski MK, Novotny R. Dietary patterns change over two years in early adolescent girls in Hawai‘i. Asia Pac J Clin Nutr. 2018; 27(1): 238 - 245. |
|  |
| Yonemori KM, Ennis T, Novotny R, Fialkowski MK, Ettienne R, Wilkens LR, Leon Guerrero RT, Bersamin A, Coleman P, Boushey CJ. Collecting wrappers, labels, and packages to enhance dietary information from food records among children 2-8 years participating in the Children’s Healthy Living Program (CHL) for remote underserved minority populations in the Pacific region. J Food Compost Anal. 2017; 64(1): 112 - 118. |
|  |
| Banna JC, McCrory M, Fialkowski MK, Boushey C. Examining plausibility of self-report energy intake data: considerations for method selection. Front Nutr. 2017; 4:45. |
|  |
| Matanane L\*, Fialkowski MK, Silva J, Li F, Nigg C, Leon Guerrero R, Novotny R. “Para i famagu’on-ta”: Fruit and Vegetable Intake, Food Store Environment, and Childhood Overweight/Obesity in the Children’s Healthy Living Program on Guam. Hawaii J Med Public Health. 2017; 76(8): 225 – 233. |
|  |
| Esquivel M\*, Fialkowski MK, Aflague T, Novotny R. Engaging Head Start Teachers on Wellness Policy Implementation to Improve the Nutrition and Physical Activity Environment in Head Start Classrooms: A Qualitative Study of the Children's Healthy Living Program (CHL) in Hawai'i. J Fam Med Community Health. 2016; 3(5): 1094*.* |
|  |
| Yamanaka A\*, Fialkowski MK, Wilkens L, Li F, Ettienne R, Fleming T, Power J, Deenik J, Coleman P, Leon Guerrero R, Novotny R. MK Quality Assurance of Data Collection in the Multi-site Community Randomized Trial and Prevalence Survey of the Children’s Healthy Living Program. BMC Res Notes. 2016; 9(1): 432. |
|  |
| Novotny R, Li F, Fialkowski MK, Bersamin A, Tufa AJ, Deenik J, Coleman P, Leon Guerrero R, Wilkens LR. Prevalence of obesity and acanthosis nigricans among young children in the Children's Healthy Living Program in the United States Affiliated Pacific. Medicine. 2016; 95(37): e4711. |
|  |
| Fialkowski MK, Yamanaka A\*, Wilkens LR, Braun KL, Butel J, Ettienne R, McGlone K, Remengesau S, Power JM, Johnson E, Gilmatam D, Fleming T, Acosta M, Belyeu-Camacho T, Shomour M, Sigrah C, Nigg C, Novotny R. Recruitment strategies and lessons learned from the Children’s Healthy Living Program prevalence survey. AIMS Public Health. 2016; 3(1): 140 – 157. |
|  |
| Esquivel M\*, Nigg CR, Fialkowski MK, Braun KL, Li F, Novotny R. Influence of teachers’ personal health behaviors on operationalizing obesity prevention policy in Head Start preschools: A project of the Children’s Healthy Living Program (CHL). J Nutr Educ Behav. 2016; 48(5): 318 – 325. |
|  |
| Nigg CR, Anwar M-U, Braun KL, Mercado J, Fialkowski MK, Ropeti Areta AA, Belyeu-Camacho T, Bersamin A, Leon Guerrero R, Castro R, DeBaryshe B, Vargo AM, Van der Ryn M, Braden KW, Novotny R. A Review of Promising Multicomponent Environmental Child Obesity Prevention Intervention Strategies by the Children's Healthy Living Program. J Env Health. 2016; 79(3): 18 - 26*.* |
|  |
| Fialkowski MK, Matanane L\*, Gibson WJ\*\*, Yiu E\*\*, Hollyer J, Kolasa K, Novotny R. Pacific Food Guide. Nutr Today. 2016; 51(2): 72 - 81. |
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| Esquivel M\*, Nigg CR, Fialkowski MK, Braun KL, Li F, Novotny R. Head Start Wellness Policy Intervention in Hawaiʻi: A project of the Children’s Healthy Living Program (CHL). Child Obes. 2016; 12(1): 26 – 32. |
|  |
| Li F, Wilkens L, Novotny R, Fialkowski MK, Paulino Y, Nelson R, Bersamin A, Martin U, Deenik J, Boushey C. Anthropometric measurement standardization in the US Affiliated Pacific: Report from the Children's Healthy Living Program. Am J Hum Biol. 2016; 28(3): 364 – 371. |
|  |
| Banna J, Stewart M, Lin G, Fialkowski MK. Interaction matters: Strategies to promote engaged learning in an online introductory nutrition course. J Online Learn Teach. 2015; 11(2): 249 - 261*.* |
|  |
| Fialkowski MK, Delormier T, Hattori-Uchima M, Leslie JH, Greenberg J, Kim J, Deenik JL, Dunn MA, Areta A, Novotny R. Children’s Healthy Living Program (CHL) Indigenous Workforce Training to Prevent Childhood Obesity in the Underserved US Affiliated Pacific Region. J Health Care Poor Underserved. 2015;26(2 Supplement): 83-95. |
|  |
| Novotny R, Fialkowski MK, Li F, Paulino Y, Vargo D, Jim R, Coleman P, Bersamin A, Nigg CR, Leon Guerrero RT, Deenik J, Kim JH, Wilkens LR. Systematic Review of Prevalence of Young Child Overweight and Obesity in the United States–Affiliated Pacific Region Compared With the 48 Contiguous States:  The Children’s Healthy Living Program. Am J Public Health. 2015; 105(1): e22 – e35. |
|  |
| Fialkowski MK, EttienneR, RiveraRL, Van Loan MD, Savaiano DA, Boushey CJ. Ethnicity and Acculturation: Do they predict weight status in a longitudinal study among Asian, Hispanic, and non-Hispanic white early adolescent females? Adolesc Health Med Ther.2015; 6: 1 - 7*.* |
|  |
| Braun K, Nigg C, Fialkowski MK, Butel J, Hollyer J, Barber LR, Teo-Martin U, Flemming T, Vargo A, Coleman P, Bersamin A, Novotny R. Using the ANGELO Framework to Develop the Children’s Healthy Living Program Multilevel Intervention to Promote Obesity Preventing Behaviors for Young Children in the US Affiliated Pacific Region. Child Obes. 2014; 10(6): 474 - 281*.* |

*As Junior Researcher*

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| Banna J, Fialkowski MK, Townsend M. Misreporting of dietary intake affects estimated nutrient intakes in low-income Spanish-speaking women. J Acad Nutr Diet. 2015;115 (7):1124-33. |
|  |
| Fialkowski MK, DeBaryshe B, Bersamin A, Nigg C, Leon-Guerrero R, Rojas G, Areta A, Vargo A, Belyeu-Camacho T, Castro R, Luick B, Novotny R and the Children’s Healthy Living for Remote Underserved Populations in the Pacific Region (CHL) Program Team. A community engagement process identifies environmental priorities for change to prevent early childhood obesity in the Children’s Healthy Living Program for Remote Underserved Populations in the Pacific Region (CHL). Matern Child Health J. 2014; 18(10): 2261-2274. |
|  |
| Fialkowski MK, McCrory MA, Roberts S, Tracy JK, Grattan L, Boushey CJ. [Dietary patterns are associated with dietary recommendations but have limited relationship to BMI in the Communities Advancing the Studies of Tribal Nations Across the Lifespan (CoASTAL) cohort.](http://www.ncbi.nlm.nih.gov/pubmed/22348238) Public Health Nutr. 2012; 15(10): 1948 - 1958. |
|  |
| Fialkowski MK, Okoror TA, Boushey CJ. [The Relevancy of Community-Based Methods: Using Diet within Native American and Alaska Native Adult Populations as an Example](http://onlinelibrary.wiley.com/doi/10.1111/j.1752-8062.2011.00364.x/abstract). Clin Transl Sci. 2012; 5(3):295-300. |

*Prior to UHM*

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| Fialkowski MK, McCrory MA, Roberts S, Tracy JK, Grattan L, Boushey CJ. Estimated nutrient intakes from food generally do not meet Dietary Reference Intakes among adult members of Pacific Northwest Tribal Nations. J Nutr. 2010; 140:992-998. |
|  |
| Fialkowski MK, McCrory MA, Roberts S, Tracy JK, Grattan L, Boushey CJ. Evaluation of dietary assessment tools used to assess the diet of adults participating in the Communities Advancing the Studies of Tribal Nations Across the Lifespan (CoASTAL) cohort. J Am Diet Assoc. 2010; 110:65-73. |

**Peer-Reviewed Publications: Journals (Under Review)**

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**Published Abstracts**

*As Assistant Professor*

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| Fialkowski MK, Calabrese A\*, Tillinghast B, Meinke W, Titchenal A. Student Perception between a Publisher Textbook vs an Open Educational Resource Textbook for an Introductory Nutrition Course. J Nutr Educ Behav 2019 51(7): S122 (Society for Nutrition Education and Behavior Conference [Poster Presentation] Orlando FL. July 27 – 30, 2019) |
|  |
| Novotny R, Fialkowski M, Butel J, Fleming T, Shallcross L, Deenik J, Coleman P, LeonGuerrero R. Children's Healthy Living Center of Excellence (CHL Center) Year 1. J Nutr Educ Behav 2019 51(7): S23 (Society for Nutrition Education and Behavior Conference [Poster Presentation] Orlando FL. July 27 – 30, 2019) |
|  |
| Fialkowski MK, Ng-Osorio J, Kai J\*, Swafford K\*\*, Boushey CJ. First Feeding Behaviors of Native Hawaiian, Pacific Islander, and Filipino Infants. Curr Dev Nutr 2019 3 (Supplement 1): nzz048.P11-063-19 (Nutrition 2019 [Poster Presentation] Baltimore MD. June 8 – 11, 2019) |
|  |
| Fialkowski MK, Sandlin M, Novotny R, Hattori-Uchima M, Coleman P, Naeole C. Long-Term Impact of the Child Health Assessment in the Pacific (CHAP) Undergraduate Summer Fellowship Program. J Nutr Educ Behav 2018 50(7): S65-S66 (Society for Nutrition Education and Behavior Conference [Poster Presentation] Minnesota MN. July 21 – 25, 2018) |
|  |
| Novotny R, Wilkens LR, Nigg CR, Braun K, Butel J, Areta A, Fleming T, Coleman P, Belyeu-Camacho T, Greenberg J, Bersamin A, LeonGuerrero R, Barber LR, Fialkowski MK, Davis J. Effectiveness of the Children’s Healthy Living (CHL) Multilevel Community Randomized Intervention Program on Child Measures in Five US affiliated Pacific Jurisdictions. Current Developments in Nutrition 2018 2(11) (Nutrition 2018 [Oral Presentation] Boston MA. June 9 -12, 2018) |
|  |
| Zhao C\*, Panizza C, Fox K, Boushey C, Shanks CB, Ahmed A, Chen S, Serrano E, Zee J, Fialkowski M, Banna J. Reduction of School Lunch Plate Waste of Early Adolescents in the US: Identifying Barriers, Motivators, and Perspectives. Current Developments in Nutrition 2018 2(11) (Nutrition 2018 [Oral Presentation] Boston MA. June 9 -12, 2018) |
|  |
| Fialkowski MK, Sandlin M, Novotny R, Hattori-Uchima M, Coleman P, Naeole C. Integration of a Field Experience Component in the Child Health Assessment in the Pacific (CHAP) Undergraduate Summer Fellowship Program. J Nutr Educ Behav 2017 49(7): S63 (Society for Nutrition Education and Behavior Conference [Poster Presentation] Washington DC. July 20 – 24, 2017) |
|  |
| Novotny R, Wilkens LR, Nigg CR, Braun K, Butel J, Areta A, Coleman P, Belyeu-Camacho T, Greenberg J, Bersamin A, Leon Guerrero R, Barber LR, Fialkowski MK, De la Cruz-Talbert E. Effectiveness of the Children’s Healthy Living (CHL) Multilevel Multicomponent Community Intervention Program in 5 US affiliated Pacific Jurisdictions FASEB J2017 31: 640.37 (Experimental Biology Conference [Oral Presentation], Chicago IL. April 22 - 26, 2017) |
|  |
| Panizza C, Fox K, Boushey C, Shanks C, Serrano E, Zee J, Fialkowski M, Banna J. Barriers, Motivators and Perspectives on Minimizing Lunchtime Plate Waste of Early Adolescents in the National School Lunch Program. FASEB J 2017 31: 302.1 (Experimental Biology Conference [Oral Presentation], Chicago IL. April 22 - 26, 2017) |
|  |
| Fialkowski MK, Sandlin M, Hattori-Uchima M, Weichhaus M, Coleman P, Novotny R. Child Health Assessment in the Pacific (CHAP) Summer Fellowship Program. *J Nutr Educ Behav* 2016 48(7): S27 (Society for Nutrition Education and Behavior Conference [Poster Presentation] San Diego CA, July 29 – August 2, 2016). |
|  |
| Fialkowski MK, Yamanaka A\*, Fleming T, Coleman P, Bersamin A, Leon Guerrero R, Novotny R. Changes in Community Readiness in the Children’s Healthy Living (CHL) Program in Remote Underserved Minority Populations of the Pacific. *J Nutr Educ Behav* 2016 48(7): S91 – S92 (Society for Nutrition Education and Behavior Conference [Poster Presentation] San Diego CA, July 29 – August 2, 2016). |
|  |
| Novotny R, Fialkowski M, Fleming T, Bersamin A, Deenik J, Coleman P, Leon Guerrero R. Year 5 of theChildren’s Healthy Living (CHL) Program for Remote Underserved Minority Populations of the Pacific Region. *J Nutr Educ Behav* 2016 48(7): S126 - S127 (Society for Nutrition Education and Behavior Conference [Poster Presentation] San Diego CA, July 29 – August 2, 2016). |
|  |
| Fialkowski MK, Novotny R, Esquivel MK, Eichelberger A, Meinke W, Ngo H, Kahalewale C, Delormier T,  Leslie J. The Children’s Healthy Living Summer Institute: An Opportunity for Sustained Pacific Workforce Capacity Development. *North American College and Teachers of Agriculture (NACTA) Journal* 2016 60(S1): 130. (NACTA Conference [Poster Presentation] Honolulu HI. June 21 – 24, 2016). |
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| Esquivel MK, Fialkowski MK, Nigg C, Braun K, Li F, Novotny R. Validity of Head Start teacher height and weight measurements, BMI and child growth assessments: training needs for longitudinal tracking. FASEB J 2016 30:897.4 (Experimental Biology [Poster]. San Diego, CA, April 2 – 6, 2016). |
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| Li F, Novotny R, Wilkens LR, Fialkowski MK, Fleming T, Coleman P, Leon Guerrero RT, Bersamin A, Deenik J. Food Insecurity and Young Child BMI Status in the U.S. Affiliated Pacific (USAP) Region: Findings from the Children’s Healthy Living Program. FASEB J 2016 30:273.7 (Experimental Biology [Oral Presentation], San Diego, CA, April 2 – 6, 2016). |
|  |
| Fialkowski MK, Gibson WJ\*\*, Yiu E\*\*, Banna JC, Lin G, Stewart M, Leon Guerrero R, Novotny R. An Online Introductory Nutrition Course Adapted for Hawai‘i and the Pacific. *J Nutr Educ Behav* [2015](http://www.jneb.org/issue/S1499-4046%2815%29X0002-9) 47(4): S15 (Society for Nutrition Education & Behavior Conference (SNEB) [Poster Presentation], Pittsburgh, PA. July 25 – 28, 2015). |
|  |
| Fialkowski MK, Gibson WJ\*\*, Banna JC, Stewart M, Lin G, Leon Guerrero R, Novotny R, Using YouTube to Foster Asynchronous Interaction in an Online Introductory Nutrition Course. *North American College and Teachers of Agriculture (NACTA) Journal* 2015 59(S1): 002. (NACTA Conference [Oral Presentation] Athens GA. June 16 – 20, 2015). |
|  |
| Fialkowski MK, Li F, Bersamin A, Leon Guerrero R, Kim J and Novotny R. The Pacific Retail Food Store Environment: Findings from the Children's Healthy Living Program. *FASEB J* 2015 29: 382.7 (Experimental Biology Conference [Oral Presentation], Boston MA. March 28 – April 1, 2015). |
|  |
| Boushey CJ, Yonemori K, Novotny R, Fialkowski M, Wilkens L, Nigg C, Leon Guerrero RT, Bersamin A, Kim JH, Johnson K. Intakes of key dietary indicators among children 2-8 years participating in the Children’s Healthy Living (CHL) Program for remote underserved minority populations in the Pacific region. *FASEB J* 2015 29: 381.1 (Experimental Biology Conference [Oral Presentation], Boston MA. March 28 – April 1, 2015). |
|  |
| Ettienne R, Boushey CJ, Yonemori K, Fialkowski MK, Leon Guerrero R, Bersamin A, Coleman P, Fleming T, Novotny R. “Your Child Ate What?” Frequently Consumed Foods of Young Children in the U.S. Affiliated Pacific (USAPI): The Children’s Healthy Living (CHL) Program. *FASEB J* 2015 29: 404.7 (Experimental Biology Conference [Oral Presentation], Boston MA. March 28 – April 1, 2015). |
|  |
| Novotny R, Li F, Fialkowski MK, Vargo D, Areta AR, Deenik D, Leon Guerrero RT and Kim J. Child obesity and acanthosis nigricans in the Children's Healthy Living Program (CHL). *FASEB J* 2015 29: 902.9 (Experimental Biology Conference [Poster], Boston MA. March 28 – April 1, 2015). |
|  |
| Li F, Nigg C, Mcglone K, Fialkowski M, Wilkens L, Paulino Y, Belyeu-Camacho T, Bersamin A, Areta A, Novotny R. Young children’s screen time and obesity in the U.S. Affiliated Pacific: The Children’s Healthy Living Program. *FASEB J* 2015 29: 902.21 (Experimental Biology Conference [Poster], Boston MA. March 28 – April 1, 2015). |
|  |
| Li F, Novotny R, Fialkowski M, Wilkens L, McGlone K, Uchima M , Nelson R, Bersamin A, Vargo A. Determinants of young children’s sleep duration in the U.S. Affiliated Pacific: The Children’s Healthy Living Program**.** *FASEB J* 2015 29: 902.22 (Experimental Biology Conference [Poster], Boston MA. March 28 – April 1, 2015). |
|  |
| Dela Cruz-Talbert E, Li F, Fialkowski M, Wilkens L, Leon Guerrero R, Kim J, Bersamin A, Novotny R.  Fast food environment among low income communities in the Pacific Region: Findings from the Children’s Healthy Living Program. *FASEB J* 2015 29: 903.15 (Experimental Biology Conference [Poster], Boston MA. March 28 – April 1, 2015). |

*As Junior Researcher*

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| Fialkowski MK, Dunn MA, Delormier T, Hattori-Uchima M, Leslie JH, Deenik JL, Greenberg J, Kim J, Leon-Guerrero R, Bersamin B, Areta A, Novotny R. Indigenous Workforce Training by the Children’s Healthy Living Program (CHL) to Prevent Childhood Obesity in the Pacific. *J Nutr Educ Behav* 2014 46(4):S122-S123 (Society for Nutrition Education and Behavior (SNEB) Conference. [Poster] Milwaukee, WI, June 28 – July 1, 2014). |
|  |
| Esquivel M\*, Novotny R, Fialkowski MK, Aflague T. Head Start Teachers & Wellness Policy: Children’s Healthy Living in Remote Underserved Minority Populations of the Pacific. *J Nutr Educ Behav* 2014 46(4):S151 (Society for Nutrition Education and Behavior (SNEB) Conference. [Poster] Milwaukee, WI, June 28 – July 1, 2014). |
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| Fialkowski MK, Li F, Butel J, Nigg C, Braun K, Johnson K, Tachibana A, Wilkens L, Novotny R. Community food environment and early childhood BMI: Baseline findings from the Hawaiʻi Children's Healthy Living Program. *FASEB J* 2014 28:390.5 (Experimental Biology. [Oral Presentation] San Diego, CA, April 26-30, 2014). |
|  |
| Novotny R, Fialkowski MK, Li F, Vargo D, Paulino Y, Jim R, Coleman P, Bersamin A, Nigg C, Leslie J, Leon Guerrero R, Deenik J, Kim J, Wilkens L. Prevalence of young child overweight and obesity in the US Affiliated Pacific Region: A meta-analysis from the Children's Healthy Living Program (CHL). *FASEB J* 2014 28:621.6 (Experimental Biology. [Poster] San Diego, CA, April 26-30, 2014). |
|  |
| Matanane L\*, Li F, Leon Guerrero R, Barber B, Acosta M, Fialkowski MK. The influence of community food environment on weight status of young children participating in the Children’s Healthy Living (CHL) Program in Guam. *FASEB J* 2014 28:1019.1 (Experimental Biology. [Poster] San Diego, CA, April 26-30, 2014). |
|  |
| Li F, Wilkens L, Novotny R, Fialkowski MK, Paulino Y, Nelson R, Bersamin A, Martin U, Jim R, Deenik J, Boushey C. Anthropometric standardization in the US Affiliated Pacific: The Children's Healthy Living Program. *FASEB J* 2014 28:1024.6 (Experimental Biology. [Poster] San Diego, CA, April 26-30, 2014). |
|  |
| Fialkowski MK, Matanane L\*, Wong S\*\*, Leslie J, Dunn M, Novotny R. Integrating Pacific Cultural Concepts into the Introductory Nutrition Curriculum: The Children’s Healthy Living Program for Remote Underserved Populations in the Pacific. *J Nutr Educ Behav* 2013 45(4):S17 (Society for Nutrition Education and Behavior Annual Conference. [Poster] Portland, OR, August 9 -12, 2013). |
|  |
| Fialkowski MK, Areta AR, Belyeu-Camacho T, Bersamin A, Rojas G, Castro R, DeBaryshe B, Leon-Guerrero R, Luick B, Vargo A, Nigg C, Novotny R. Using Community Readiness Assessment to Inform Environmental Intervention Development in the Children’s Healthy Living (CHL) Program in Remote Underserved Minority Populations of the Pacific. *FASEB J* 2013 27:232.8 (Experimental Biology [Oral Presentation] Boston, MA, April 20 – 24, 2013). |

*Prior to UHM*

|  |
| --- |
| Grattan L, Roberts D, Fialkowski MK, Tracy K, Boushey C. Importance of applying community-based principles in Pacific Northwest Tribal Nations: Successes of the Communities Advancing the Studies of Tribal Nations Across the Lifespan (CoASTAL) cohort. Clin Transl Sci 2010; 3:S25. (Clinical and Translational Research and Education Meeting. [Poster] Washington, DC, April 5 – 7, 2010) |
|  |
| Fialkowski MK, Boushey CJ, Roberts S, Grattan L. Dietary Intakes of Pacific Northwest Tribal Nations. FASEB J 2009 23: 551.29. (Experimental Biology. [Poster] New Orleans, LA, April 18 – 22, 2009) |
|  |
| Fialkowski MK, Boushey CJ. Onset to overweight among Asian, Hispanic, and non-Hispanic white early adolescent girls in relation to acculturation. *FASEB J* 2008 22:299.8 (Experimental Biology. [Oral Presentation] San Diego, CA, April 5 – 9, 2008) |

**Conference Abstracts: Oral Presentations**

*As Associate Professor*

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| --- |
| Fialkowski Revilla MK, Eichelberger A, Ngo H, Esquivel M, Meinke W, Novotny R. Increasing Accessibility While Minimizing Costs in an Online Program Focused on Child Health. Health Professions Education Conference 2020, Honolulu, HI, February 15, 2020 |
|  |
| Fialkowski MK, Fonseca T\*, Ng-Osorio J, Pinto P\*. Stories of Native Hawaiian Infant Feeding Practices as Told by Kūpuna. Fourth Annual Conference on Native American Nutrition, Prior Lake, MN, September 15 – 18, 2019. |
|  |
| Esquivel M, Fialkowski MK, Wilkens L, Boushey C, LeonGuerrero R, Coleman P, Shallcross L, Fleming T, Novotny R. Children’s Healthy Living Program efforts in the North Pacific to enhance Food Composition and Dietary Data. OCEANIAFOODS Conference, Auckland, NZ, September 3 – 4, 2019. |

*As Assistant Professor*

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| --- |
| Endrizal C, Revilla MKF. An Examination of Culturally Safe Dietetics Practice in the Pacific Island and Hawai’i Region. Hawai‘i Academy of Nutrition and Dietetics Spring Conference 2019, Honolulu, HI, May 3, 2019. |
|  |
| Ng-Osorio J, Pinto P\*, Fonseca T\*, Fialkowski MK. Na Mo‘olelo o Ko Kakou Kupuna: Native Hawaiian Oral Histories on Infants’ First Foods. Piko‘oko‘o Conference, Honolulu, HI, October 5 – 6, 2018. |
|  |
| Sandlin MR, Fialkowski MK, Novotny R, Hattori-Uchima M, Coleman P, & Naeole C. Determining the Longitudinal Impacts of a Short-Term, Research-Based Field Experience on Participant Self-Efficacy. Hawai‘i Pacific Evaluation Conference, Honolulu, HI, October 4 – 5, 2018. |
|  |
| Eichelberger A, Fialkowski MK, Esquivel M, Ngo H. Get them outside! An online program’s use of community-based activities and technology to engage online students. Teaching, Colleges & Community Online Conference, April 17 – 19, 2018. |
|  |
| Sandlin MR, Fialkowski MK, Novotny R, Hattori-Uchima M, Weichhaus M, & Coleman P. How much is too much? Assessing the value of a weekly web-based participant check-in system for a regional training program. Hawai‘i-Pacific Evaluation Association Conference, Kaneohe, HI, September 21 – 22, 2017. |
|  |
| K-aloha K\*, Fialkowski MK, Fox K, Odom K. Archived Hawaiian Language Newspapers Recounting Poi ‘Awa’awa use among Native Hawaiian’s Traditional Diet. [Incorporating Public Health Skills to Improve Quality of Life: Examples from Native American Food Systems](https://wrphtc.arizona.edu/virtual-conference), Virtual Conference, August 22 – 24, 2017. |
|  |
| Novotny R, Fialkowski MK, Butel J, Coleman P, Leon Guerrero RT, Deenik J, Greenburg J, Fleming T.  Sustained and Evolved Children’s Healthy Living (CHL) Program Impacts. International Society of Behavioral Nutrition and Physical Activity Conference, Victoria, Canada, June 7 – 10, 2017. |
|  |
| Fialkowski MK, Leon Guerrero R, Bersamin A, Deenik J, Fleming T, Coleman P, Novotny R. Unanticipated Workforce Development in the Children's Healthy Living Program. He Huliau Conference, Honolulu, HI, October 13 – 14, 2016. |
|  |
| Banna JC, Lin G, Stewart M, Fialkowski MK. Fostering Interaction in an Online Introductory Nutrition Course. 4th Annual International Conference on Education and e-Learning. Bangkok, Thailand, August 25-26, 2014. |
|  |
| Novotny R, Fialkowski MK, Esquivel M, Li F, Wilkens LR. Building a Child BMI Monitoring System for the US Affiliated Pacific Region: A Model from the Hawaii Children’s Healthy Living Program. International Pacific Health Conference, Auckland, New Zealand. November 3 – 5, 2014. |

*As Junior Researcher*

|  |
| --- |
| Boushey C, Yonemori K, Au D, Novotny R, Fialkowski MK, Wilkens L, Nigg C, Leon Guerrero R, Bersamin A, Niles K, Areta A, Kim J, Johnson K. Children’s Healthy Living Program for remote underserved minority populations in the Pacific region: challenges and design of dietary assessment methods among young children 2-8 years old. National Nutrient Databank Conference. Portland, OR, May 14-17, 2014. |
|  |
| Fialkowski MK, Areta AR, Belyeu-Camacho T, Bersamin A, Rojas G, Castro R, DeBaryshe B, Leon-Guerrero R, Luick B, Vargo A, Nigg C, Novotny R. The development of the Children’s Healthy Living for Remote Underserved Populations in the Pacific Region Program (CHL) community-based approach to identify and prioritize possible environmental interventions to prevent young child obesity. Pacific Global Health Conference. Honolulu, HI, October 8-10, 2012. |
|  |
| Leslie JH, Dunn MA, Boyd J, Deenik JL, Fialkowski MK, Fiame R, Greenberg J, Hattori-Uchima M, Johnson R, Kim J, [Leon-Guerrero](javascript:addSender(%22Rachael%20LeonGuerrero%20%3crachaeltlg@UGUAM.UOG.EDU%3e%22)) R, Luick B, Nigg C, Paulino Y, Stokes A, Takahashi R, Vargo D, Wilkens L, York A, Novotny R. Training an Indigenous Workforce to Prevent Childhood Obesity: a component of the Children’s Healthy Living Program for Remote Underserved Minority Populations in the Pacific Region (CHL). Pacific Global Health Conference. Honolulu, HI, October 8-10, 2012. |

*Prior to UHM*

|  |
| --- |
| Fialkowski MK, Boushey CJ, Roberts S, Grattan L. Dietary Intakes of Pacific Northwest Tribal Nations. Society for the Advancement of Hispanics/Chicanos & Native Americans in Science (SACNAS) National Conference, Dallas, TX, October 15-18, 2009, Number 0314. |
|  |
| Fialkowski MK, Boushey CJ. Onset to overweight among Asian, Hispanic, and non-Hispanic white early adolescent girls in relation to acculturation. American Studies Symposium, Purdue University, West Lafayette, IN, April 18, 2008. |

**Conference Abstracts: Poster Presentations**

*As Associate Professor*

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| Fonseca-Smith T\*, Fialkowski M, Novotny R, Antonio M. A Proposed Approach to Investigating the Supports and Barriers to Breastfeeding of Young Mothers in Hawai‘i. Fourth Annual Conference on Native American Nutrition, Prior Lake, MN, September 15 – 18, 2019. |

*As Assistant Professor*

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| --- |
| Swafford K\*\*, Kai J\*, Ng-Osorio J, Boushey CJ, Revilla MKF. Influential factors of complementary feeding practices of caregivers of Native Hawaiian infants residing in the Moku o Koʻolauloa. Lāhui Hawai‘i Research Center Student Conference, March 29 – 30, 2019. |
|  |
| Kai J\*, Swafford K\*\*, Ng-Osorio J, Boushey CJ, Revilla MKF. Baby’s 1st Foods: reflections on the process of researching indigenous infant dietary patterns. Lāhui Hawai‘i Research Center Student Conference, March 29 – 30, 2019. |
|  |
| K-aloha BK\*, Fialkowski MK, Fox K. Kālai: Carving Your Own Pathway to Success Through Mentorship. Piko‘oko‘o Conference, October 5 – 6, 2018. |
|  |
| Nigg CR, Novotny R, Davis J, Butel J, Boushey C, Fialkowski MK, Braun KL, Leon Guerrero R, Coleman P, Bersamin A, Areta A, Barber LR, Belyeu-Camacho T, Greenberg J, Fleming T, DelaCruz-Talbert E, Yamanaka A, Wilkens LR. A Multilevel Multicomponent Community Randomized Trial Addressing Young Child Overweight and Obesity in the US Affiliated Pacific: The Children’s Healthy Living Program (CHL). SALTO Conference, September 26 - 28, 2018. |
|  |
| K-aloha BK\*, Fox K, Novotny R, Odom K, Fialkowski MK. Practices of Poi ‘Awa’awa Consumption Among Native Hawaiian Tradition. 2018 Sustainable Agricultural Education Association Conference, July 27 - 29, 2018. |
|  |
| Swafford K\*\*, Kai J\*, Ng-Osorio J, Revilla MKF. Contemporary First Food Feeding Practices for Native Hawaiian Infants. Lāhui Hawai‘i Research Center Student Conference, April 6 - 7, 2018. |
|  |
| Calabrese A\*, Fialkowski MK, Boushey C, Davis J, Leon Guerrero R, and Novotny R. Is there a Relationship Between Protein Intake and Acanthosis Nigricans Among Young Children in the Children’s Healthy Living Program in the United States Affiliated Pacific? College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 6, 2018. |
|  |
| Sandlin MR, Fialkowski MK, Novotny R, Hattori-Uchima M, Weichhaus M, & Coleman P. Student Perceptions of a Regional Undergraduate Training Program in Childhood Nutrition and Health Assessment. American Association for Agricultural Educators Conference, May 16 - 19, 2017. |
|  |
| Sandlin MR, Fialkowski MK, Novotny R, Hattori-Uchima M, Weichhaus M, & Coleman P. Assessing the administrative value of a weekly check-in system for the evaluation of a regional training program delivered at a distance. Association for International Agricultural Extension Education Conference, April 24 – 28, 2017. |
|  |
| Yonemori KM, Ennis T, Novotny R, Fialkowski MK, Ettienne R, Wilkens LR, Leon Guerrero RT, Bersamin A, Coleman P, Boushey CJ. Collecting wrappers, labels, and packages to enhance dietary information from food records among children 2-8 years participating in the Children’s Healthy Living Program (CHL)  for remote underserved minority populations in the Pacific region. National Nutrient Database Conference, May 16 – 18, 2016. |
|  |
| Villiger RK, Boushey CJ, Yonemori KM, Novotny R, Fialkowski MK, Esquivel M, Banna JC. How does Hawai‘i stack up: Comparing nutrient intake in 2-8 year old participants in the Children’s Healthy Living (CHL) program in Hawai‘i (HI) to National Health and Nutrition Examination Survey (NHANES). College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 8 – 9, 2016. |
|  |
| Fialkowski MK, Esquivel MK, Novotny R. Fostering Grant Writing Skills: A Student Learning Objective of the Intercollege Nutrition PhD Program. 2016 Assessment for Curriculum Improvement Poster Exhibit, University of Hawai‘i at Mānoa. April 15, 2016. |
|  |
| Fialkowski MK and Novotny R. Integrated Monitoring and Evaluation in the Intercollege Nutrition PhD Program. 2015 Assessment for Curriculum Improvement Poster Exhibit, University of Hawai‘i at Mānoa. April 17, 2015. |
|  |
| Tufa A, Hurwitz E, Novotny R, Fialkowski MK, Li F, Areta A. Acculturation and Childhood overweight and obesity in American Samoa: Results from the Children’s Healthy Living (CHL) Program. College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 10 – 11, 2015. |
|  |
| Fialkowski MK, Delormier T, Hattori-Uchima M, Paulino Y, Deenik J, Areta A, Bersamin A, Boushey C, Nigg C, Kim J, Leslie J, Dunn M, Novotny R. Community-Based Projects for Training Underserved Minority Students of the U.S. Affiliated Pacific in the Children's Healthy Living Program. He Huliau Conference, Kapolei, HI, September 18 – 20, 2014. |

*As Junior Researcher*

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| --- |
| Matanane L\*, Gibson WJ\*\*, Fialkowski MK. Translating Feedback to Enhance the Pacific Food Guide:  The Children’s Healthy Living Program (CHL) Resource for Nutrition.College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 11, 2014. |
|  |
| Matanane L\*, Leon Guerrero R, Fialkowski MK. A Glance at the Food Access Points in Guam:  The Children’s Healthy Living Program.College of Tropical Agriculture and Human Resource Research Symposium. University of Hawaiʻi at Mānoa, April 12, 2013. |

*Prior to UHM*

|  |
| --- |
| Fialkowski MK, McCrory MA, Roberts S, Grattan L, Boushey CJ. Evaluation of dietary assessment tools used to assess dietary exposures of adults participating in the communities advancing the studies of tribal nations across the lifespan (CoASTAL) cohort. 5th Symposium on Harmful Algae in the U.S. Ocean Shores, WA, November 15-19, 2009. |
|  |
| Fialkowski MK, Boushey CJ, McCrory MA, Roberts S, Grattan L. Influence of plausibility on the assessment of adherence to dietary guidelines that relate to cardiovascular disease risk among adults from Pacific Northwest Tribal Nations. International Conference on Diet and Activity Methods, Washington, D.C., June 5-7, 2009. |
|  |
| Fialkowski MK, Boushey CJ, McCrory MA, Roberts S, Grattan L. Dietary intakes related to cardiovascular disease risk among a sample of adults from Pacific Northwest Tribal Nations. Interdepartmental Nutrition Program Poster Session, Purdue University, West Lafayette, IN. February 27, 2009. |
|  |
| Fialkowski MK, Boushey CJ, McCrory MA, Roberts S, Grattan L. Dietary intakes related to cardiovascular disease risk among a sample of adults from Pacific Northwest Tribal Nations. Sigma Xi Graduate Poster Competition, Purdue University, West Lafayette, IN. February 18, 2009. |
|  |
| Fialkowski MK, Boushey CJ, McCrory MA, Roberts S, Grattan L. Influence of plausibility on the assessment of adherence to dietary guidelines that relate to cardiovascular disease risk among adults from Pacific Northwest Tribal Nations. International Conference on Diet and Activity Methods, Washington, D.C., June 5-7, 2009. |
|  |
| Fialkowski MK, Boushey CJ, McCrory MA, Roberts S, Grattan L. Dietary intakes related to cardiovascular disease risk among a sample of adults from Pacific Northwest Tribal Nations. Indiana Clinical and Translational Science Institute (CTSI) First Annual Meeting, Indianapolis, IN. January 8, 2009. |
|  |
| Fialkowski MK, Boushey CJ. Acculturation and overweight: A longitudinal study among Asian and Hispanic early adolescent females. Cancer Prevention and Control Program. The Oncological Sciences Center, Purdue University, West Lafayette, IN, May 24, 2007. |

\* Indicates graduate student

\*\* Indicates undergraduate student

*“Aʻohe pau ka ike i ka halau hoʻokahi”*

Knowledge comes from many sources – always be open minded

Andre P. Seale

**College of Tropical Agriculture and Human Resources**

(Human Nutrition Food and Animal Sciences)

FTE Distribution: 30% I; 70% R; 0% E

**Education**

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| --- | --- | --- |
| **Degree** | **University** | **Major** |
| Bachelors | University of Miami | Marine Science and Biology |
| Masters |  |  |
| PhD | University of Hawaiʻi at Mānoa | Zoology |

**Lifetime and Fellow Achievement Awards (peer nominated and endorsed national and International-important for those without accreditation that is peer nominated and endorsed, recognized)**

**Professional Appointments**

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| **Title** | **Employer** | **Dates Employed** |
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*Assistant Professor* HNFAS - UHM 2016- present

*Assistant Researcher* HIMB - UHM 2011- 2016

*Postdoctoral fellow* HIMB - UHM 2009- 2010

*Senior Research Scientist* Proteonik Inc. 2004- 2006

*Postdoctoral fellow* PBRC – UHM 2002- 2003

**Courses Taught**

Course Number and Title (credits)

ANSC450/OCN450 (3 cr.) - Aquaculture Production

ANSC472 (3 cr.) - Comparative Endocrinology

ANSC641 (1 cr.)- Seminar in Human Nutrition, Food and Animal Sciences

FSHN681 (1 cr.) - Seminar in Human Nutrition, Food and Animal Sciences

ANSC491 (1 cr.) - Topics in Animal Sciences

ANSC699 (1-9 cr.) - Directed Research

ANSC499 (1-9 cr.) - Directed Research

CMB700 (3 cr.) Directed thesis research

MBBE699 (3 cr.) Directed research

MBBE691 (1 cr.)– Topics Comparative Endocrinology

**Publications (reverse chronological order)**

Books

**Seale, A. P.** and Seale L. A. (2009). "Tropical Marine Gardens" 240 pps. Metalivros, São Paulo. ISBN 978-85-85371-83-8.

Book Chapters

**Seale, A. P**., Hirano, T., and Grau, E. G. (2006). Osmoreception: a fish model for a fundamental sensory modality. *In* "Fish Endocrinology" (G. Zaccone and M. Reinecke, Eds.)., pp. 419-440 Oxford & IBH Publishing Company.

**Seale, A. P**., Hirano, T., and Grau, E. G. (2005). Stimulus-secretion coupling in the osmoreceptive prolactin cell of the tilapia. *In* "Mechanosensitivity of the Cells from Various Tissues" (A. Kamkin and I. Kiseleva, Eds.), pp. 371-389. Academia, Moscow.

Shepherd, B. S., Weber, G. M., Vijayan, M. M., **Seale, A. P**., Riley, L. G., Richman, N. H., Hirano, T., and Grau, E. G. (2005). Control of growth in tilapia: developments and prospects. *In* "Tilapias: Culture, Nutrition and Feeding" (C. D. Webster and C. E. Lim, Eds.). Haworth Press.

Meredith, H. O., Richman, N. H., Collier, J. T., **Seale, A. P.**, Riley, L. G., Ball, C. H., Shimoda, S. K., Stetson, M. H., and Grau, E. G. (1999). Pesticide effects on prolactin release from the rostral pars distalis in vitro and their effects on growth in vivo in the tilapia (*Oreochromis mossambicus*). In "Environmental Toxicology and Risk Assessment: Eighth volume, ASTM STP 1364" (D. S. Henshel, M. C. Black, and M. C. Harrass, Eds.). American Society for Testing and Materials, West Conshohocken, PA.

Conference Proceedings

Nelson, N., Petro-Sakuma, C., Celino-Brady, F., **Seale, A. P.,** Breves, J. P. (2020). Coordinated Gene Expression of *Na+/Cl−cotransporter 1* (*ncc1*) and *Clc family Cl−channel 2* (*clcn2c*) in Kidney and Urinary Bladder of Euryhaline Tilapia. FASEB J. 34, 1-1. https://doi.org/10.1096/fasebj.2020.34.s1.04903

Keith, P. L., Hunt, B. L., Inokuchi, M., Yamaguchi, Y., **Seale, A. P.**, Lerner, D. T., Grau, E. G., and Breves, J. P. (2016). Prolactin and Extracellular Osmolality Regulate Branchial *clc2c* Expression in Tilapia. FASEB J. 30, 760.5-760.5.

Rowell, T.R., Seale, L. A., **Seale, A. P**., Banuelos, G. S., Grau, E. G., Riley, L.G. (2013).Effects of selenium-enriched meal on growth performance, endocrine control of growth and selenoprotein expression in tilapia (*Oreochromis mossambicus*). *Integr. Comp. Biol.* 53, E185-E185.

**Seale, A. P**., Weber, G. M., Richman, N. H., 3rd, Stetson, M., Hirano, T., and Grau, E. G. (2004). Cell size regulates hormone release in the osmoreceptive prolactin cell of the euryhaline tilapia, Oreochromis mssambicus. *In* "Trends in Comparative Endocrinology. Proceedings of the Fifth Congress of Asia and Oceania Society for Comparative Endocrinology" (T. Oishi, K.Tsutsui, S. Tanaka, and S. Kikuyama, Eds.), pp. 138-140.

Hirano, T., Leedom, T. A., **Seale, A. P**., and Grau, E. G. (2002). Facilitative effects of angiotensin II on prolactin cell responses to osmotic stimulation in tilapia. *Symp. Soc. Exp. Biol****.*** 97-108.

**Seale, A. P.**, Richman, N. H., Riley, L. G., Hirano, T., and Grau, E. G. (2000). The Control of Prolactin Secretion in Tilapia: Hypothalamic and Environmental Factors. In "Proceedings of the Japan Society for Comparative Endocrinology" (Y. Sasayama and N. Suzuki, Eds.), Vol. 15, pp. 2, Noto, Japan.

Refereed Journal Publications

Celino-Brady, F., Lerner, D. T., Seale, A. P. (2020). Experimental Approaches for Characterizing the Endocrine Disrupting Effects of Environmental Chemicals in Fish. Front. Endocrinol. *In press.*

**Seale, A. P.**, Malintha, T., Celino-Brady, F. T., Head, T., Belcaid, M, Yamaguchi, Y., Lerner, D. T., Baltzegar, D. A., Borski, R. J., Stoytcheva, Z. R. and Breves, J. P. (2020). Transcriptional regulation of prolactin in a euryhaline teleost: characterization of gene promoters through in silico and transcriptome analyses. *J. Neuroendocrinol.* 32: e12905.

Petro-Sakuma, C. K., Celino-Brady, F., Breves, J. P., **Seale, A. P.** (2020). Growth hormone regulates intestinal gene expression of nutrient transporters in tilapia, *Oreochromis mossambicus.* *Gen. Comp. Endocrinol.* 292: 113464.

**Seale, A. P.,** Pavlosky, K. K., Celino-Brady, F., Lerner, D. T. (2020). Sex, salinity and sampling period dependent patterns of growth hormone mRNA expression in Mozambique tilapia. *Aquaculture*. [519:](https://doi.org/10.1016/j.aquaculture.2019.734766) 734766.

Celino-Brady, F., Petro-Sakuma, C. K., Breves, J. P., Lerner, D. T., **Seale, A. P.** (2019). Early-life exposure to 17β-estradiol and 4-nonylphenol impacts the growth hormone/insulin-like growth-factor system and estrogen receptors in Mozambique tilapia, *Oreochromis mossambicus.* J. Aqua. Tox. https://doi.org/10.1016/j.aquatox.2019.105336

**Seale, A. P.**, Pavlosky, K. K., Celino-Brady, F., Yamaguchi, Y., Breves, J. P., Lerner, D. T. (2019). Systemic versus tissue-level modulation of prolactin signaling in a euryhaline teleost subjected to tidally changing slainities. *J. Comp. Physiol.* doi: 10.1007/s00360-019-01233-9.

Pavlosky, K. K., Yamaguchi, Y., Lerner, D. T., **Seale, A. P.** (2019). The effects of transfer from steady-state to tidally-changing salinities on plasma and branchial osmoregulatory parameters in adult Mozambique tilapia. *Comp. Biochem. Physiol.* 227, 134-145. doi: 10.1016/j.cbpa.2018.10.005.

Douros, J. D., Baltzegar, D. A., Reading, B. J., **Seale, A. P.**, Lerner, D. T., Grau, E. G., Borski, R. J. (2018). Leptin stimulates cellular glycolysis through a STAT3 dependent mechanism in tilapia*. Front. Endocrinol.* 9, 465. doi: 10.3389/fendo.2018.00465

Yamaguchi, Y., Breves, J. P., Haws, M. C., Lerner, D. T., Grau, E. G., **Seale, A. P.** (2018). Acute salinity tolerance and the control of prolactin 177 and prolactin 188 release and gene expression by extracellular osmolality in the Nile tilapia: a comparative study. *Gen. Comp. Endocrinol.* 257, 168-176.

Breves, J. P., Keith, P. L. K., Hunt, B. L., Pavlosky, K. K., Inokuchi, M., Yamaguchi, Y., Lerner, D. T., **Seale, A. P.,** Grau, E. G. (2017*). clc-2c* is regulated by salinity, prolactin and extracellular osmolality in tilapia gill. *J. Mol. Endocrinol.* 59(4):391-402

Douros, J. D., Baltzegar, D. A., Mankiewicz, J. L.; Taylor, J. D., Yamaguchi, Y., Lerner, D. T., **Seale, A. P.**, Grau, E. G., Breves, J. P., Borski, R. J. (2017). Control of leptin by metabolic state and its regulatory interactions with pituitary growth hormone and hepatic growth hormone receptors and insulin like growth factors in the tilapia (*Oreochromis mossambicus*). *Gen. Comp. Endocrinol.* 240, 227-237.

Breves, J., Inokuchi, M., Yamaguchi, Y., **Seale, A. P.,** Hunt, B. L., Watanabe, S., Lerner, D. T., S., Kaneko, T., Grau, E. G. (2016). Hormonal regulation of aquaporin 3 in tilapia gill: opposing actions of prolactin and cortisol. *J. Endocrinol.* 230, 325-337.

Moorman, B. P., Yamaguchi, Y., Lerner, D. T., Grau, E. G., **Seale, A. P.** (2016) Rearing Mozambique tilapia in tidally-changing salinities: effects on growth and the growth hormone/ insulin-like growth factor I axis. *Comp. Physiol. Biochem.*198, 8-14.

Yamaguchi, Y., Moriyama S., Lerner, D. T., Grau, E. G., **Seale, A. P.** (2016). Autocrine regulation of prolactin release from tilapia prolactin cells: modulation of hormonal responses by extracellular osmolality. *Endocrinology*. 157, 3505-16.

Yamaguchi, Y., Takagi, W., Kuraku, S., Moriyama, S., Bell, J. D., **Seale, A. P.**, Lerner, D. T., Grau, E. G., Hyodo, S. (2015). Discovery of conventional prolactin from the holocephalan elephant fish, *Callorhinchus milii*. *Gen. Comp. Endocrinol.* 224, 216-227.

Inokuchi, M., Breves, J., Moriyama, S., Watanabe, S., Kaneko, T., Lerner, D. T., Grau, E. G., **Seale, A. P.** (2015). Prolactin 177, prolactin 188 and extracellular osmolality independently regulate the expression of ion transport effectors in the gills of Mozambique tilapia*. Am. J. Physiol.* 309(10): R1251-1263.

Nakamura, M., Nozu, R., Ijiri, S., Kobayashi, T., Yamaguchi, Y., **Seale, A. P.**, Lerner, D.T., Grau, E. G. (2015). Sexual characteristics of high-temperature sterilized male Mozambique tilapia, *Oreochromis mossambicus*. *Zool. Lett.* 1-21

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**Seale, A.P.**, Stagg, J. J., Yamaguchi, Y., Breves, J. P., Soma, S., Watanabe, S., Kaneko, T., Cnaani, A., Harpaz, S., Lerner, D. T., Grau, E.G. (2014).Effects of salinity and prolactin on the transcription of ion transporters, ion pumps and prolactin receptors in Mozambique tilapia intestine. *Gen. Comp. Endocrinol.* 206, 146-54.

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**Seale, A. P**., Riley, L. G., Leedom, T. A., Kajimura, S., Dores, R. M., Hirano, T., and Grau, E. G. (2002). Effects of environmental osmolality on release of prolactin, growth hormone and ACTH from the tilapia pituitary. *Gen. Comp. Endocrinol.* **128,** 91-101.

Extension Publications

**Seale, A. P**. and Ellis, S. (2019). Sustainable capture-based aquaculture of rabbitfish in Pacific Island Lagoons. College of Tropical Agriculture and Human Resource. Aquaculture and Aquaponics AA-1. ISBN 978-1-929054-15-2.

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

**Seale, A. P.**; Stender, K.; Pickett, M. (2004); Fishes in Hawaii, Bess Press.

Leadership Roles (Committees, Boards, Advisory, etc.)

Member of Curriculum Pathway Development Committee of the Intercollege Nutrition PhD Program, Department of Human Nutrition, Food and Animal Sciences, University of Hawaiʻi at Mānoa.

Research and extension committee member, Department of Human Nutrition, Food and Animal Sciences, University of Hawaiʻi at Mānoa.

Member, search committtee, HIMB, HNFAS - UHM

Animal facility inspector, Institutional Animal Care and Use Committee, University of Hawaiʻi at Mānoa

Member, Fish Advisory Committee, Institutional Animal Care and Use Committee, University of Hawaiʻi at Mānoa.

Voting member, Institutional Animal Care and Use Committee, University of Hawaiʻi at Mānoa.

Workshop organizer, Edwin Pauley Summer Program in Marine Biology, “Integrative, experimental and environmental physiology of marine organisms,” Hawaiʻi Institute of Marine Biology, University of Hawaiʻi at Mānoa, Kāne'ohe, HI.

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| Category | Current Number of Students | Number Graduated (Career) |
| *Chair* of Master’s Committees | 2 | 3 |
| *Chair* of PhD Committees | 1 |  |
| Member of Master’s Committees | 1 |  |
| Member of PhD Committees | 3 | 6 |

**Grant Support**

Co-PI: Advanced Aquaculture Collaborative Programs (NOAA); “Establishing a Hawaiʻi-Pacific Aquaculture Consortium: A Revitalization and Expansion of the Aquaculture Development Program”; $1,196,344. 2019-2022

Co-PI; Department of Commerce, National Oceanic and Atmospheric Administration (NOAA); “Establishing an aquaculture program at the University of Hawai‘i that leverages and integrates Land Grant and Sea Grant research, extension and educationresources”; $749,816. 2018-2021

PI; National Science Foundation (IOS-1755016); “Collaborative Research: Identifying osmosensitive molecular targets using a unique vertebrate model” $348,400. 2018-2021

PI; Travel grant from the Hawaiʻi Institute of Marine Biology for the 2019 International Marine Biotechnology Conference and the Asia Pacific Marine Biotechnology Conference; $2,000. 2019

PI; Sea Grant Program Development Project (E/ET-1 OOPD), “Training for extension professionals in sustainable cage farming and rearing methods of Rabbitfishes (Siganidae), in Pohnpei, Federated States of Micronesia"; $3,467. 2018

Mentor; Undergraduate Research Opportunity Program grant, “*In-silico* analysis of the Prolactin (PRL) promoters to predict elements regulating PRL expression and elucidate mechanisms of osmoregulation in *Oreochromis mossambicus*”; $5,000. 2018

PI; Travel grant from the Office of the Vice-Chancellor for Research; $2,000. 2017

PI; College of Tropical Agriculture and Human Resources (CTAHR) / United States Department of Agriculture Hatch Proposal (HAW02051-H); “Physiological effects of environmental stressors in a key finfish for aquaculture”; $40,000. 2017-present

PI; Smith-Lever extension funds; “Integrated Tilapia Aquaculture Research, Education and Outreach”; $1,000 / year. 2016-2019

PI; National Institutes of Health (1R21DK111775-01); “Integrating Osmosensitivity and Autocrine Signaling in a Model for Osmoregulation”; $450,830. 2016-2020

PI; University of Hawai‘i Sea Grant College Program omnibus grant (R/SB-18) “The use of a euryhaline tilapia to assess the endocrine disrupting effects of anthropogenic chemicals on growth and osmoregulation of a tropical teleost species inhabiting coastal waters and wetlands in Hawaiʻi and the tropics.”; $75,853 + 2 years of funding for Graduate Assistant. 2016-2018

PI; Sub-award from California State University at Fresno / United States Department of Agriculture, “Investigations into the Stress Reducing Effects of Selenium enriched Feed in an Important Aquaculture Species, Tilapia (Oreochromis mossambicus)”; $33,000. 2015-2016

PI; University of Hawai‘i Sea Grant College Program omnibus grant (R/SS-12) “The development of acclimation salinity-based rearing strategies to maximize growth in Mozambique tilapia, *Oreochromis mossambicus*”; $64,121 + 2 years of funding for Graduate Assistant. 2014-2016

Co-PI and Co-organizer; 2012 Edwin Pauley Summer Program in Marine Biology “Integrative, experimental and environmental physiology of marine organisms”, Pauley Foundation; $80,000. 2012

**Presentations at Conferences**

Celino-Brady, F.T., Petro-Sakuma C.K., Breves J.P., Lerner D.T., **Seale, A.P.** (2020). Estrogenic chemical pollutants affect growth and reproduction-related genes in male Mozambique Tilapia, *Oreochromis mossambicus*. Aquaculture America 2020, Honolulu, Hawai‘i (Feb 10).

**Seale, A.P.**, Petro-Sakuma C.K., Celino-Brady F.T., Breves, J.P. (2020). Growth hormone regulates intestinal nutrient transporters in Mozambique tilapia *Oreochromis mossambicus.* Aquaculture America 2020, Honolulu, Hawai‘i (Feb 10).

Celino-Brady, F.T., Pavlosky K.K., Lerner D.T.,**Seale, A.P.** (2020). Sex, salinity, and sampling period modulate growth hormone expression in Mozambique Tilapia *Oreochromis mossambicus*. Aquaculture America 2020, Honolulu, Hawai‘i.

Chang, R., Celino-Brady F.T.,Breves J.P., **Seale, A.P.** (2020): Regulation of growth and reproductive genes by pituitary hormones in male and female Mozambique Tilapia (*Oreochromis mossambicus*). Aquaculture America 2020, Honolulu, Hawai‘i.

Woo, D.W., Celino-Brady F.T., Pavlosky K.K., Lerner D.T.,**Seale, A.P.** (2020). Effects of environmental salinity on the stress response in Mozambique tilapia, *Oreochromis mossambicus*. Aquaculture America 2020, Honolulu, Hawai‘i.

**Seale, A. P.** (2020). From live cell imaging to radioimmunoassays to animal facilities: approaches in tilapia research. International mini-symposium: Approaches for experimental challenges in aquaculture research, University of Hawaiʻi at Mānoa (Jan 15).

Barba, E.\*, Conklin, E., Kraft, D., **Seale, A.P.**, Toonen, R. (2019). AssessPool: a flexible pipeline for population genomic analyses of pooled sequencing data. A case study on salinity acclimation in tilapia. Joint Conference of the 12th International Marine Biotechnology Conference and the 12th Asia Pacific Marine Biotechnology Conference, Shizuoka, Japan (Sep 9-13)

**Seale, A. P.\*** (2019). A fish prolactin cell model to investigate the emerging integration between osmoreception, thermoreception and autocrine signaling. The Growth Hormone (GH)/ Prolactin (PRL) Family in Biology and Disease. Federation of American Societies for Experimental Biology (FASEB) Science Research Conferences, West Palm Beach, FL (July 7-12).

**Seale, A.P.\*** (2019). Acclimation of fish to dynamically changing salinities: insights from the euryhaline Mozambique tilapia. 5th Biennial Conference of the North American Society for Comparative Endocrinology, Gainsville, FL (May 25-28).

Celino-Brady, F.T.\*, Petro-Sakuma C.K., Breves J.P., Lerner D.T., **Seale, A.P.** (2019). Early Life exposure to 17β-estradiol and nonylphenol affects the gh/igf system and expression of estrogen receptors in Mozambique tilapia. 5th Biennial Conference of the North American Society for Comparative Endocrinology, Gainesville, FL (May 25-28).

Petro-Sakuma, C.K.\*, Celino-Brady, F.T., **Seale, A.P.** (2019). Regulation of Intestinal Nutrient Transporters by the pituitary gland in Mozambique Tilapia (*Oreochromis mossambicus*). College of Tropical Agriculture and Human Resources Student Research Symposium, University of Hawaiʻi, Honolulu, HI.

Chang, R.\*, Celino-Brady, F.T., **Seale, A.P.** (2019). Control of growth-related genes by pituitary hormones in the liver and gonad of male and female Mozambique Tilapia (*Oreochromis mossambicus*). Tester Symposium, Department of Biology, University of Hawaiʻi, Honolulu, HI.

Ferrier, A.\*, Petro-Sakuma, C.K., Celino-Brady, F.T., **Seale, A.P.** (2019). Effect of steady-state and tidally changing salinities on the expression of intestinal aquaporins in *Oreochromis mossambicus*. Tester Symposium, Department of Biology, University of Hawaiʻi, Honolulu, HI.

**Seale, A.P.\***, Yamaguchi Y., Pavlosky, K.K., Lerner, D.T., Grau, E.G. (2018). Endocrine control of ion balance in steady state versus dynamically changing salinity regimes in Mozambique tilapia. 13th International Congress on the Biology of Fish, Calgary, Canada (July 16-19).

**Seale, A.P.**\* (2018). Control of growth and osmoregulation in tilapia under dynamically-changing salinities. Sino-US Symposium on Food Nutrition and Health, Hainan University, Haikou, China (June 4-8).

Woo, D.W.\*, Celino-Brady, F. T., Pavlosky, K.P., Lerner, D.T., **Seale, A.P.** (2018). The effects of salinity on plasma glucose in Mozambique tilapia, *Oreochromis mossambicus*. Imi Wai Ola Student Science Conference (May 4). Honolulu, HI, USA.

Head, T.\*, Stoytcheva, Z., **Seale, A. P.** (2018). *In-silico* analysis of Prolactin 177 and 188 promoters to identify mechanisms of osmoreception in Mozambique Tilapia (*Oreochromis mossambicus).* 29th Annual CTAHR and COE student research symposium (April 8). Honolulu, HI.

Woo, D.W.\*, Celino-Brady, F. T., Pavlosky, K.P., Lerner, D.T., **Seale, A.P.** (2018). Stress response of Mozambique tilapia, *Oreochromis mossambicus*, subjected to cyclical changes in environmental salinity. 29th Annual CTAHR and COE student research symposium (April 8). Honolulu, HI.

Petro-Sakuma, C.K.\*, Celino-Brady, Lerner, D.T., **Seale A.P.** (2018). Effects of waterborne exposure to nonylphenol on the growth and reproductive physiology of Mozambique Tilapia (*Oreochromis mossambicus*). 29th Annual CTAHR and COE student research symposium (April 8). Honolulu, HI.

**Seale, A.P.\*,** Celino-Brady, F. T.\* (2017). The Use of a Euryhaline Tilapia to Assess the Endocrine Disrupting Effects of Anthropogenic Chemicals on Growth and Osmoregulation of a Tropical Teleost Species Inhabiting Coastal Waters and Wetlands in Hawaiʻi and the Tropics. Hawaiʻi Sea Grant Research Symposium, Honolulu, HI.

**Seale, A. P.\***, Yamaguchi, Y., Inokuchi, M., Moorman, B., Lerner, D. T. and Grau, E. G. (2017). Endocrine Control of Growth and Osmoregulation in fish: a comparison between steady state and dynamically changing salinity regimes. *In* “University of Hawaii and University of Tokyo, Joint Symposium on Ocean, Coastal, and Atmospheric Sciences,” Honolulu, HI.

Celino-Brady, F. T.\*, Yamaguchi, S., Miura, C., Miura, T., Lerner, D. T., and **Seale, A. P.** (2017). Modulation of Reproductive and Growth Axes by Environmental Endocrine Disruptors. *In* “University of Hawaii and University of Tokyo, Joint Symposium on Ocean, Coastal, and Atmospheric Sciences,” Honolulu, HI.

**Seale, A.P.\*,** Pavlosky, K. Keano, Moorman, B.P., Yamaguchi, Y., Lerner, D.T., Grau, E.G., (2017). Hormonal control of growth and osmoregulation under dynamically changing salinities in Mozambique tilapia*Oreochromis mossambicus*. World Aquaculture 2017. Cape Town, South Africa.

**Seale, A.P.\*,** Obaldo, L.G., Low, T.E., Okimoto, D. K., Xu, L.J. (2017). Tilapia industry in Hawai‘i: an update.World Aquaculture 2017. Cape Town, South Africa.

**Seale, A.P**.\*, Yamaguchi, Y., Breves, J. P., Haws, M. C., Lerner, D.T., Grau, E.G., (2017). Osmotic regulation of prolactin 188 and prolactin 177 and their receptors in two tilapia congeners with distinct salinity tolerances. North American Society for Comparative Endocrinology and 9th International Conference in Comparative Endocrinology. Chateau Lake Louise, Canada.

Breves J.P.\*, Keith P.L.K., Hunt B.L., Pavlosky K.K., Inokuchi M., Yamaguchi Y., Lerner D.T., Grau E.G., **Seale A.P.** (2017). Multifactorial control of branchial clc-2c gene expression in tilapia: effects of salinity, prolactin and extracellular osmolality. North American Society for Comparative Endocrinology and 9th International Conference in Comparative Endocrinology. Chateau Lake Louise, Canada.

**Seale, A.P**.\* (2017).Hormonal control of growth and osmoregulation in the tilapia under dynamically changing salinities. Okayama University International Workshop “Strategies of plants and animals on environmental response/adaptation,” Okayama City, Japan; Mar. 09.

Celino-Brady, F.T.\*, Yamaguchi, S., Miura, C., Miura, T., Lerner, D.T., **Seale, A.P.** (2017). Endocrine Disrupting Effects of Anthropogenic Pollutants on Fish Reproduction and Growth. Okayama University International Workshop " Strategies of plants and animals on environmental response/adaptation”; Okayama City, Japan; Mar. 09.

Petro-Sakuma, C. K.\*, Celino-Brady, F. T., Lerner, D. T., **Seale, A. P.** (2017). Endocrine Disrupting Effects of the Anthropogenic Pollutants, Ethynylestradiol and Nonylphenol on Growth and Reproduction in Mozambique Tilapia (*Oreochromis mossambicus*). *In* “University of Hawaii and University of Tokyo, Joint Symposium on Ocean, Coastal, and Atmospheric Sciences. Honolulu, HI.

**Seale, A. P.\*** (2017). Hormonal control of growth in tilapia under dynamically changing conditions; Hawaii Aquaculture and Aquaponics Association conference. Kapi‘olani Community College, HI.

**Seale, A.P.\***, Yamaguchi, Y., Lerner, D.T., Grau, E.G. (2016). A fish model for prolactin cell regulation and osmoreception. International Symposium on Pituitary Gland and its Related System. University of Hawai‘i, Honolulu, HI (Sept. 1-5).

**Seale, A. P.\*,** Yamaguchi, Y., Lerner, D.T., Grau, E.G. (2016). Recent advances in the tilapia cell model for osmoreception. In “8th International Symposium on Fish Endocrinology,” Gothemburg, Sweden.

Reyes, A.\*, **Seale, A. P.**, Seale, L. A. (2016). Investigation of amino acid transporters in the gut of an euryhaline species, the Mozambique tilapia, (*Oreochromis mossambicus*). Biomedical Science and Health Disparity Symposium (April 21). John A. Burns School of Medicine – University of Hawai‘i. Honolulu, HI.

Pavlosky, K.\*, Yamaguchi, Y., Lerner, D. T., Grau, E. G. G., and **Seale, A. P.** (2016). Effects of cyclical changes in environmental salinity on osmoregulatory parameters in the Mozambique tilapia, *Oreochromis mossambicus*. 28th Annual CTAHR and COE student research symposium (April 8). Honolulu, HI.

Keith, P. L.\*, Hunt, B. L., Inokuchi, M., Yamaguchi, Y., **Seale, A. P.**, Lerner, D. T., Grau, E. G., and Breves, J. P. (2016). Prolactin and Extracellular Osmolality Regulate Branchial *clc2c* Expression in Tilapia. Experimental Biology Annual Meeting (April). San Diego, CA.

Pavlosky, K.\*, Yamaguchi, Y., Lerner, D.T., Grau, E.G., **Seale, A. P.** (2015). Tilapia: A Model for Osmoregulation. *In* "40th Annual Albert L. Tester Memorial Symposium," Honolulu, HI, USA.

Yamaguchi, Y.\*, Moriyama, S., Lerner, D.T., Grau, E.G., **Seale, A.P.** (2015). Autocrine regulation of prolactin release from tilapia prolactin cells: modulation of hormonal responses by extracellular osmolality. *In* “3rd International Congress of the North American Society of Comparative Endocrinology,” Ottawa, Canada.

Breves, J.P.\*, Inokuchi, M., Yamaguchi, Y., **Seale, A.P.**, Watanabe, S., Lerner, D.T., Kaneko, T. Grau, E.G. (2015) Prolactin and cortisol direct branchial aquaporin 3 expression in euryhaline tilapia. *In* “3rd International Congress of the North American Society of Comparative Endocrinology,” Ottawa, Canada.

**Seale, A. P.\***, Yamaguchi, Y., Inokuchi, M., Moorman, B., Lerner, D. T. and Grau, E. G. (2015). Environmental and Hormonal Control of Osmoregulation in a Euryhaline Teleost Fish. *In* “University of Hawaii and University of Tokyo, Joint Symposium on Ocean, Coastal, and Atmospheric Sciences”, Kashiwa, Japan.

Yamaguchi, Y.\*, Moriyama, S., Lerner, D.T., Grau, E.G., **Seale, A.P.** (2015). Autocrine regulation of prolactin release from tilapia prolactin cells: modulation of hormonal responses by extracellular osmolality. *In* “University of Hawaii and University of Tokyo, Joint Symposium on Ocean, Coastal, and Atmospheric Sciences,” Kashiwa, Japan.

**Seale, A. P.\***, Inokuchi, M., Lerner, D. T., Grau, E. G. (2013). The tilapia prolactin cell and gill filament models for studying osmoreception and osmoregulation. *In* “Perspectives in Endocrinology of Cichlids,” BARD workshop, Ein Harod, Israel.

**Seale, A.** **P.\***, Moorman, B. P., Inokuchi, M., Lerner, D. T., and Grau, E. G. (2013). Effects of tidally changing rearing salinities on osmoregulation and growth in the Mozambique tilapia. In “10th International Symposium on Tilapia in Aquaculture,” Jerusalem, Israel.

**Seale, A.P.\***, Stagg, J. J., Yamaguchi, Y., Breves, J. P., Soma, S., Watanabe, S., Kaneko, T., Lerner, D. T., Grau, E.G. (2013). The Na+/K+/2Cl- co-transporter is a target of prolactin in the intestine of Mozambique tilapia. *In* “10th International Symposium on Tilapia in Aquaculture,” Jerusalem, Israel.

Seale L. A.\*, Berry M. J., Grau EG, **Seale A. P.** (2013). The effects of fresh water and seawater adaptation on the expression of selenoproteins in the Mozambique tilapia, *Oreochromis mossambicus*. *In*: “Selenium,” Berlin, Germany.

Rowell, T.R.\*, Seale, L. A., **Seale, A. P**., Banuelos, G. S., Grau, E. G., Riley, E.G. (2013).Effects of selenium-enriched meal on growth performance, endocrine control of growth and selenoprotein expression in tilapia (*Oreochromis mossambicus*). In Annual meeting of the “Society for *Integrative and Comparative Biology,*” San Francisco, CA.

Moorman, B.P.\*, Lerner, D. T., Grau, E. G.**, Seale, A. P**. (2013).Effects of steady-state and tidally changing rearing salinities on osmoregulation in the Mozambique tilapia. *In* “2nd International Congress of the North American Society of Comparative Endocrinology,” Queretaro, Mexico.

Inokuchi, M.\*, Lerner, D. T., Grau, E. G.**,** Watanabe, S., Kaneko, T., **Seale, A. P**. (2013).Effects of ambient osmolality and prolactin on gill osmoregulatory function in cultured gill filaments from freshwater-acclimated Mozambique tilapia. *In* “2nd International Congress of the North American Society of Comparative Endocrinology,” Queretaro, Mexico.

**Seale, A. P**.\*, Breves, J. P., Watanabe, S., Kaneko, T., Lerner, D.T., Hirano, T., Grau, E. G. (2012).Environmental salinity modulates osmotic responsiveness of tilapia via TRPV4. *In* “7th International Symposium on Fish Endocrinology,” Buenos Aires, Argentina.

Breves, J.P.\*, **Seale, A.P.,** Tipsmark, C., Stagg J. J., Moorman, B. P., Lerner, D. T., Grau, E. G. (2012). Hypophysectomy and growth hormone replacement elicit tissue-specific responses by the growth hormone (GH)/ insulin-like growth factor (IGF) system in Mozambique tilapia. *In* “10th International Congress on the Biology of Fish,” Madison, WI, USA.

**Seale, A. P**.\*, Watanabe, S., Kaneko, T., Lerner, D.T., Grau, E. G. (2012). Environmental Modulation of the Osmoreceptive PRL cell in Tilapia, Oreochromis Mossambicus. *In* “University of Hawaii and University of Tokyo, Joint Symposium on Ocean, Coastal, and Atmospheric Sciences,” Honolulu, HI, USA.

**Seale, A. P**.\* and Grau, E. G. (2012) Environmental Modulation of the Osmoreceptive PRL cell in Tilapia, Oreochromis Mossambicus. *In* “Cellular Neurobiology and Endocrine Signaling: A Symposium in Honor of Dr. Ian M. Cooke,” Honolulu, HI, USA.

**Seale A.P.\***, Breves J.P., Watanabe S., Kaneko T., Lerner D.T., Hirano T. and Grau E. (2011). Osmoreception and endocrine responses in the euryhaline tilapia, *Oreochromis Mossambicus*. *In* “1st International Congress of the North American Society of Comparative Endocrinology,” Ann Arbour, MI.

Breves, J.P.\*, **Seale, A.P.,** Tipsmark, C., Watanabe, S.,Lerner, D.T., Kaneko, T., Hirano, T., Grau, E. G., McCormick, S., Karlstrom, R., (2011). Regulation of branchial ionoregulatory pathways by prolactin and growth hormone: A comparative approach investigating euryhaline and stenohaline teleosts. *In* “1st International Congress of the North American Society of Comparative Endocrinology,” Ann Arbour, MI.

**Seale, A. P**., Mita, M.\*, Hirano, T., Grau, E. G. (2009).Involvement of the cAMP messenger system in tilapia prolactin signal transduction during freshwater acclimation. *In* “XVI International Congress of Comparative Endocrinology,” Hong Kong, China.

**Seale, A. P**.\*, Park, H. S., Lee, J. H., de Jesus, L. A., and Kim, Y. (2006). Development and application of affinity MALDI plates. *In* "54th ASMS Conference on Mass Spectrometry," Seattle, WA.

de Jesus, L. A.\*, **Seale, A. P**., Lee, J. H., Ha, M. Y., and Kim, Y. (2006). Separation of released and intracellular 3T3-L1 adipocyte proteins by affinity MALDI plates. *In* "54th ASMS Conference on Mass Spectrometry." Seattle, WA.

**Seale, A. P**.\*, de Jesus, L. A., Park, M., and Kim, Y. (2005). Signal transduction of insulin and vanadium-induced adiponectin release and cell content in 3T3-L1 adipocytes. *In* "13th Korea-Japan symposium on Diabetes mellitus." Seoul, South Korea.

de Jesus, L. A.\*, **Seale, A. P**., Park, M., Ha, M. Y., Hwang, C.-S., and Kim, Y. (2005). Cloning, purification and activity of PTP1B-GST measured by inhibition assay. *In* "The 17th annual meeting of the Korean society for molecular and cellular biology." Seoul, South Korea.

**Seale, A. P**.\*, de Jesus, L. A., and Kim, Y. (2005). Stimulatory and inhibitory modulation of adiponectin release and cellular accumulation. *In* "The 17th annual meeting of the Korean society for molecular and cellular biology." Seoul, South Korea.

**Seale, A. P**.\*, Jesus, L. A. d., Park, M., and Kim, Y. (2005). Insulin and vanadyl sulfate increase adiponectin cell content through a PI3K-independent and PKB-dependent pathway. *In* "From Mechanisms to functions - Korean Society for Biochemistry and Molecular Biology 62nd annual meeting." Seoul, South Korea.

Lee, J. H.\*, Ha, M. Y., **Seale, A. P**., Jesus, L. A. d., Jung, H.-C., and Kim, Y. (2005). Analysis of glycopeptides using aminophenylboronic acid conjugated magnetic beads by MALDI-TOF. *In* "KHUPO 5th International Proteomics Conference." Seoul, South Korea.

**Seale, A. P**.\*, Jesus, L. A. d., Park, M., and Kim, Y. (2005). Bismaltolato oxovanadium (BMOV) and insulin stimulate glucose uptake but have disparate effects on adiponectin release. *In* "16th Korean Society for Molecular Biology winter conference." Yongpyong, South Korea.

**Seale, A. P.\*,** de Jesus, L. A., and Kim, Y. (2004). Measurement of glucose uptake with a fluorescent marker in 3T3-L1 adipocytes. *In* "16th annual meeting for the Korean Society for Molecular and Cellular Biology." Seoul, South Korea.

**Seale, A. P.\*,** Weber, G. M., Hirano, T., and Grau, E. G. (2004). Cell size regulates hormone release in the osmoreceptive prolactin cell of the euryhaline tilapia, Oreochromis mossambicus. *In* "5th International Symposium on Fish Endocrinology." Castellon, Spain.

**Seale, A. P**.\*, Jesus, L. A. d., Kim, S.-Y., Hwang, C.-S., and Kim, Y. (2004). Development of a high-throughput PTP1B-inhibition assay as a probe for insulin-enhancing compounds. *In* "From Molecules to Systems - Korean Society for Biochemistry and Molecular Biology 61rst annual meeting." Seoul, South Korea.

**Seale, A. P**.\*, Weber, G. M., Richman, N. H., Stetson, M. H., Hirano, T., and Grau, E. G. (2004). Cell Size Regulates Hormone Release in the Osmoreceptive Prolactin Cell of the Euryhaline Tilapia, Oreochromis mossambicus. *In* "Asia and Oceania Society for Comparative Endocrinology Symposium." Nara, Japan.

Hirano, T.\*, Kajimura, S., **Seale, A. P**., and Grau, E. G. (2004). Is ouabain an osmoregulatory hormone in fish? *In* "Asia and Oceania Society for Comparative Endocrinology Symposium." Nara, Japan.

Cooke, I. M.\*, Shimahara, T., Xu, S., and **Seale, A.** (2002). Transduction of the hyposmotic stimulus for prolactin secretion in tilapia pituitary. *In* "Gordon series conference," Rhode Island.

Hirano, T.\*, Leedom, T. A., **Seale, A. P.**, Eckert, S. M., and Grau, E. G. (2001). Effects of blood withdrawal and angiotensin II on prolactin secretion in the tilapia. *In* ""Drink or Die" Society for Experimental Biology Satellite Meeting (14th International Congress of Comparative Endocrinology), Sorrento, Italy.

Hirano, T.\*, Leedom, T. A., **Seale, A. P.**, Eckert, S. M., and Grau, E. G. (2001). Effects of blood withdrawal and angiotensin II on prolactin secretion in the tilapia. *In* "Drink or Die" Society for Experimental Biology Satellite Meeting (14th International Congress of Comparative Endocrinology). Sorrento, Italy.

**Seale, A. P**.\*, Richman, N. H., Hirano, T., and Grau, E. G. (2001). A Mechanism for osmoreception and stimulus-secretion coupling in the prolactin cells of tilapia, *Oreochromis mossambicus*. *In* "Workshop on 'Studies on the control and actions of prolactin in teleost fishes." Honolulu, HI.

**Seale, A. P.\***, Richman, N. H., Hirano, T., and Grau, E. G. (2001). Osmoreception and stimulus-secretion coupling in the prolactin cells of tilapia, *Oreochromis mossambicus*. *In* "14th International Congress of Comparative Endocrinology." Sorrento, Italy.

**Seale, A. P**.\* (2001). Osmoreception: an Essential Modality for Euryhaline Life. *In* "26th Annual Albert L. Tester Memorial Symposium," Honolulu, HI.

**Seale, A. P.\***, and Richman, N. H. (2000). Osmoreception in the euryhaline tilapia, Oreochromis mossambicus. *In* "25th Annual Albert L. Tester Memorial Symposium," Honolulu, Hawai‘i.

**Seale, A. P.\***, Hirano, T., and Grau, E. G. (2000). The control of prolactin secretion in tilapia: hypothalamic and environmental factors. *In* "Japan Society for Comparative Endocrinology symposium," Noto, Japan.

**Seale, A. P.\***, Hirano, T., Furuta, M., Moriyama, S., Takahashi, A., Kawauchi, H., and Grau, E. G. (2000). Effects of mammalian prolactin-releasing peptides and *carassius* RF-amide on prolactin release from tilapia pituitary. *In* "4th International Symposium on Fish Endocrinology." Seattle, WA.

**Seale, A. P**.\*, and Richman, N. H. (2000). Osmoreception and stimulus-secretion coupling in the prolactin cells of the tilapia. *In* "Biomedical Research Symposium," Honolulu, HI.

Mark S. Thorne

**College of Tropical Agriculture and Human Resources**

Human Nutrition, Food and Animal Sciences

FTE Distribution 0% I; 30% R; 70% E

**Education**

|  |  |  |
| --- | --- | --- |
| **Degree** | **University** | **Major** |
| Bachelors | University of Wyoming | Rangeland Ecology and Watershed Management |
| Masters | University of Wyoming | Rangeland Ecology and Watershed Management |
| PhD | Colorado State University | Rangeland Ecophysiology |

**Lifetime and Fellow Achievement Awards**

Rangeland Manager of the Year (2010) – California Pacific Section, Society for Range Management

**Professional Appointments**

|  |  |  |
| --- | --- | --- |
| **Title** | **Employer** | **Dates Employed** |
| Specialist | University of Hawaii | 8/2018 to Present |
| Associate Specialist | University of Hawaii | 8/2007 to 8/2018 |
| Assistant Specialist | University of Hawaii | 8/2003 to 8/2007 |
| Interim Specialist | Colorado State University | 1/2003 to 6/2003 |
| Instructor | Colorado State University | 8/2002 to 12/2002 |
| Range Consultant | Genesis Laboratories, Inc. | 8/2002 to 08/2004 |
| Graduate Research Assistant | Colorado State University | 5/1998 to 12/2002 |
| Graduate Research Assistant | University of Wyoming | 5/1995 to 5/1998 |
| Undergraduate Research Assistant | University of Wyoming | 1/1994 to 5/1995 |
| Field Technician | Wyoming Game and Fish | 5/1993 to 9/1993 |
| Marine Rifleman (E-4) | United States Marine Corps | 4/1988 to 4/1992 |
| Cowboy | Various Ranches | 5/1984 to 3/1988 |

**Courses Taught**

Course Number and Title (credits)

FCC 192 (Colorado State University) Forest Inquiries (2)

**Publications (reverse chronological order)**

Books

Book Chapters

Conference Proceedings

**Thorne, M.S.** and L.J. Cox. 2008. (Editors) Proceedings: 2008 Stockman’s Fall Field Day: Behavior-based grazing management for improved animal performance, pasture condition, and ranch profitability. August 22-23, 2008. University of Hawaii at Manoa, CTAHR Publication, pp. 43.

**Thorne, M.S.** and L.J. Cox. 2007. (Editors) Proceedings: 2007 Mealani Forage Field Day: Risk management for grass-based operations. September 28-29, 2007. University of Hawaii at Manoa, CTAHR Publication, pp.45.

**Thorne, M.S.** and L.J. Cox. 2007. Managing production risk for Hawaiian ranchers. pp 11-15. In: Thorne, M.S. and L.J. Cox (eds.), Proceedings: 2007 Mealani Forage Field Day: Risk management for grass-based operations. September 28-29, 2007. University of Hawaii at Manoa, CTAHR Publication.

Norman, Arnold, **M.S. Thorne,** and M.H. Stevenson.2007. Monitoring Heifer Development and diet quality of kikuyu – pangola grass using NIRS and NUTBAL PRO. pp 18-24. In: Thorne, M.S. and L.J. Cox (eds.), Proceedings: 2007 Mealani Forage Field Day: Risk management for grass-based operations. September 28-29, 2007. University of Hawaii at Manoa, CTAHR Publication.

Deenik, J.L., **M.S. Thorne**, L.J. Cox, H.H. Keyser, and M.H. Stevenson. 2007. Best management practices for the remediation of former sugarcane lands for sustainable livestock production in Hawaii. pp 40-44. In: Thorne, M.S. and L.J. Cox (eds.), Proceedings: 2007 Mealani Forage Field Day: Risk management for grass-based operations. September 28-29, 2007. University of Hawaii at Manoa, CTAHR Publication.

Castillo, M., M. Nakahara, D. Weise, R. Vihnanek, G. Enriques, A. McAdams, L. Ford, R. Moraga, B. Babb, **M. Thorne**, E. Nonner, D. Frohlich. (2007). The Puu Anahulu wildfire management study: Development of roadside fuels reduction techniques for leeward Hawaii. Page 229 *in* R.E. Masters and K.E.M. Galley (eds.). Proceedings 23rd Tall Timbers Fire Ecology Conference: Fire in Grassland and Shrubland Ecosystems. Tall Timbers Research Station, Tallahassee, Florida, USA.

**Thorne, M.S.** and L.J. Cox. 2007. Proceedings: 2006 Mealani Forage Field Day: Hawaii Grown Beef: From Pasture to Market. October 7, 2007. University of Hawaii at Manoa, CTAHR Publication, pp.53.

**Thorne, M.S.** 2007. Foraging Behavior and Grazing Management Planning. pp 45-51. In: Thorne, M.S. and L.J. Cox (eds.), Proceedings: 2006 Mealani Forage Field Day: Hawaii Grown Beef: From Pasture to Market. October 7, 2007. University of Hawaii at Manoa, CTAHR Publication, pp. 53.

Mattos, J., and **M.S. Thorne**. 2007. Slaughter and Market Issues at the Andrade Slaughterhouse. pp 11-12. In: Thorne, M.S. and L.J. Cox (eds.), Proceedings: 2006 Mealani Forage Field Day: Hawaii Grown Beef: From Pasture to Market. October 7, 2007. University of Hawaii at Manoa, CTAHR Publication, pp. 53.

**Thorne, M.S.,** L.J. Cox. 2005.Proceedings: 2005 Mealani Forage Field Day: Improved livestock and forage production through sustainable management practices. University of Hawaii at Manoa, CTAHR P-09/05 pp. 60.

**Thorne, M.S. 2005.** Integrated Management for control of fireweed: An adaptive management approach. pp 23 – 30. *In:* Thorne, M.S., L.J. Cox (eds.), Proceedings: 2005 Mealani Forage Field Day: Improved livestock and forage production through sustainable management practices. University of Hawaii at Manoa, CTAHR P-09/05, pp. 60

**Thorne, M.S.,** Q.D. Skinner, M.A. Smith, W.A. Laycock, and J.L. Dodd. 1997. Effects of herbivory on willow (*Salix* spp.) canopy volume on mountain rangelands of northern Wyoming. Pp. 144-149 IN: Proceedings Wyoming Water 1997 Conference; What’s new in the toolbox? Applied research for management of Wyoming’s water resources: A statewide conference. April 21-23, 1997. Casper, WY.

Refereed Journal Publications

Krushelnycky, P.D., F. Starr, K. Starr, M. Abran, **M. Thorne**, J. Leary, M. Fukada, D. Rubinoff. 2018. Performance of the biocontrol agent *Secusio extensa* (Lepidoptera: Erebidae) on its target host, *Senecio madagascariensis* (Madagascar fireweed), on an alternate host, *Delairea odorata* (Cape ivy), and on non-target plants, in Hawaii. Biological Control 121: 234-246.

Lee, C.N., G.K. Fukumoto, **M.S. Thorne**, M.H. Stevenson, Y.S. Kim, M. Nakahata, and R.M. Ogoshi. 2017. Nutrient Composition of Sugarcane Forages were influenced by season and the time of harvest. Dairy and Vet. Sci. J. 2(1): 555579.

Lee, KAK, J.R. Carpenter, B.W. Mathews, **M.S. Thorne**, and L.E. Sollenberger. 2010. Effects of age of regrowth and geographical location on forage protein and carbohydrate fractions, silicon content, and their impact on IVOMD of four tropical grasses. J. Dairy Sci. 93: 343, E-Suppl. 1.

Meiman, P.J., **M.S. Thorne**, Q.D. Skinner, M.A. Smith, and J.L. Dodd. 2009. Wild ungulate herbivory of willow outside of National Parks is a significant management consideration. Rangeland Ecology and Management 62:460-469.

Buck, K., J.R. Carpenter, **M.S. Thorne** and B.W. Mathews. 2007. In situ rates of insoluble Macro-mineral release from alfalfa and tropical grasses, and relationships with dry matter disappearance. Proceedings, Western Section, American Society of Animal Science. 58:378-382.

Gardner, D.R., **M.S. Thorne**, R.J. Molyneux, J.A. Pfister, and A.A. Seawright.2006. Pyrrolizidine alkaloids in *Senecio madagascariensis* from Australia and Hawaii and assessment of possible livestock poisoning. Biochemical Systematics and Ecology 34:736-744.

**Thorne, M.S.,** P.J. Meiman, Q.D. Skinner, M.A. Smith, and J.L. Dodd. 2005. Clipping frequency affects canopy volume and biomass production in planeleaf willow (*Salix planifolia* var. *planifolia* Prush.). Rangeland Ecology and Management 58:41-50.

**Thorne, M.S.,** M.J. Trlica, W.C. Leininger, R.D. Child, and D.A. Klein. 2005. Soil CO2 efflux response to soil loss on two rangeland ecosystems. Rangeland Ecology and Management 58:27-34.

Cibils, A.F., D.M. Swift, R.H. Hart, M.J. Trlica, and **M.S. Thorne.** 2005. Gender-specific responses to winter defoliation of greenhouse-grown *Atriplex canescens* clones under contrasting soil moisture regimes. Journal of Arid Environments 61:211-226.

**Thorne, M.S.,** Q.D. Skinner, M.A. Smith, J.D. Rodgers, W.A. Laycock, and A. S. Cerekci. 2002. Evaluation of a technique for measuring canopy volume of shrubs.J. Range Manage.55:235-240.

Extension Publications

Katulski, S., **M.S. Thorne**, J. Odani, and M. Oshiro. 2020. Copper supplementation for beef cattle in Hawaii. University of Hawaii at Manoa, CTAHR Publication LM-36, pp. 10.

Hewlett, J.P., **M.S. Thorne**, J. Parsons, J. Tranel. 2019. Risk Scenario Planning: Evaluating the potential benefits of adopting a commercial mineral mix supplementation program. RightRisk Technical Guide. TG #19-12018.

Hewlett, J.P., **M.S. Thorne**, J. Parsons, J. Tranel. 2019. Risk Scenario Planning: Evaluating the potential benefits of free-choice mineral supplementation program. RightRisk Technical Guide. TG #19-12013.

**Thorne, M.S.** and R.T. Hamasaki. 2016. Management of caterpillar pests in Hawaiʻi pastures. University of Hawaii at Manoa, CTAHR Publication PRM-12, pp. 7.

Lee, C.N., G.K. Fukumoto, **M.S. Thorne**, M.H. Stevenson, M. Nakahata, and R.M. Ogoshi. 2016. Bana grass (*Pennisetum purpureum*): A possible forage for ruminants in Hawaiʻi. University of Hawaii at Manoa, CTAHR Publication PRM-11, pp. 8.

Fukumoto, G.K., **M.S. Thorne**, J.H. Silva, J.L. Deenik, and M.H. Stevenson. 2016. Suitability map for forage-finished beef production using GIS technology: Kauaʻi Island. University of Hawaii at Manoa, CTAHR Publication PRM-10, pp. 6.

Fukumoto, G.K., **M.S. Thorne**, J.H. Silva, J.L. Deenik, and M.H. Stevenson. 2016. Suitability map for forage-finished beef production using GIS technology: Maui county. University of Hawaii at Manoa, CTAHR Publication PRM-9, pp. 8.

Parsons, J., J.P. Hewlett, and **M.S. Thorne**. 2015. Forage Risk Analyzer: Assessing changes to your operation in the face of uncertainty. RightRisk: TG-15-09.

Kim, Y.S., G.K. Fukumoto, M. Stevenson, **M. Thorne**, and R. Jha. 2015. Carcass traits and tenderness of Hawaii grass-fed beef. University of Hawaii at Manoa, CTAHR Publication LM-29, pp. 7.

Lee, C.N., G.K. Fukumoto, **M.S. Thorne**, M.H. Stevenson, Y.S. Kim, M. Nakahata, and R.M. Ogoshi. 2015. Sugarcane crosses as potential forages for ruminants: Nutrient compositions were influenced by season and time of harvest. University of Hawaii at Manoa, CTAHR publication PRM-8, pp. 9.

Fukumoto, G.K., **M.S. Thorne**, J.H. Silva, and J.L. Deenik. 2015. Suitability map for forage-finished beef production using GIS technology: Hawaii Island. University of Hawaii at Manoa, CTAHR Publication PRM-7, pp. 6.

Hewlett, J., J. Parsons, and **M.S. Thorne**. 2013. Risk Management Profiles: Fillizar Ranches manage forage and marketing risks. RightRisk: RMP-201308.001R

Powley, J., M. Stevenson, and **M. Thorne**. 2013. Meat goat basics for Hawaii. University of Hawaii at Manoa, CTAHR Publication LM-26, pp. 13.

**Thorne, M.S**., M. Stevenson, and E. Pickett-Fee. 2010. Puuwaawaa grazing management plan and resource analysis. Hawaii Department of Land and Natural Resources Report. University of Hawaii at Manoa, CTAHR, pp 163.

**Thorne, M.S**., J.L. Deenik, R.W. Godfrey, G.K. Fukumoto, J.S. Powley, M.H. Stevenson, L.J. Duponcheel, and M. Abran. 2010. Ranch pasture and Livestock Management Record Book. University of Hawaii at Manoa CTAHR Publication. Pp. 62.

**Thorne, M.S.**, L. J.Cox, and G. Fukumoto. 2009. Management of Production Risk for Hawaii Ranchers. University of Hawaii at Manoa. CTAHR – PRM-5, pp 8.

**Thorne, M.S.**, and M.H. Stevenson. 2007. Stocking rate: the most important tool in the toolbox. University of Hawaii at Manoa. CTAHR – PRM-4, pp 9.

**Thorne, M.S**., and L.J. Cox. 2007. Calculating minimum lease rates for grazing in Hawaii. University of Hawaii at Manoa, CTAHR-PRM-3, pp 7.

**Thorne, M.S.**, G.K. Fukumoto, and M.H. Stevenson. 2007. Foraging Behavior and Grazing Management Planning. University of Hawaii at Manoa, CTAHR - PRM-2, pp 11.

Cox, L.J., Q.A. Edwards, **M.S. Thorne,** G.K. Fukumoto, and L.Y.T. Ching. 2006. Commercial cow-calf management decisions: Calculating your cost of production with Calf-XL 2006. University of Hawaii at Manoa, CTAHR – LM-12. pp.21.

**Thorne, M.S**., J.S. Powley, and G.K. Fukumoto. 2005. Fireweed control: an adaptive management approach. University of Hawaii at Manoa, CTAHR PRM-1, pp 8.

Cox, L.J., Q.A. Edwards, **M.S. Thorne,** G. Fukumoto. 2005. Calculating the cost of production for a cow-calf operation. University of Hawaii at Manoa, CTAHR –LM-11.

Trlica, M.J., and **M.S. Thorne.** 2001. Trend in vegetation characteristics and range condition on the Mantle Allotment in Dinosaur National Monument from 1996 to 2001. National Park Service Report, Rangeland Ecosystem Science Department, Ft. Collins, Colo.

**Thorne, M.S.,** and M.J. Trlica. 2001.Comparison between methodologies to measure cover characteristics of plant communities within Dinosaur National Monument. National Park Service Report. Rangeland Ecosystem Science Department, Ft. Collins, Colo.

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

**Websites:**

Hawaii Rangelands: <http://globalrangelands.org/state/hawaii>

Marianas Grazing Management Academy: <http://manoa.hawaii.edu/ctahr/tpalm/index.html>

UH Livestock Extension You Tube Channel: <https://www.youtube.com/channel/UCzybVKzCpGt3Q-eVqGGpTPg>

**Webinars:**

Mineral Supplementation for Beef Cattle in Hawaii: A Three-part Series. <http://hawaii.erightrisk.com/minerals/>

Strengthening RREA Programing Through Enhanced Connections: A web-based conference series: [Webinars | Renewable Resources Extension Act (RREA) (globalrangelands.org)](https://globalrangelands.org/rreasp/webinars)

Livestock Extension Virtual Field Day: <https://globalrangelands.org/state/hawaii/livestock-extension-virtual-field-day-2020>

Leadership Roles (Committees, Boards, Advisory, etc.)

Coordinator, UH/CTAHR Livestock Extension Group (2019- present)

Renewable Resources Extension Act National Strategic Planning Committee (2016 – 2018)

HNFAS Department – Research and Extension Committee Chair (2004-present)

CTAHR Faculty Senate – Research Committee (2005-2007)

CTAHR Faculty Senate – Research Committee (2009 – 2011)

CTAHR Strategic Planning Goal 3 Committee (2005 – 2007)

Associate Graduate Faculty in Animal Science, University of Hawaii at Manoa (2005 – present)

Associate Graduate Faculty in Nutrition, University of Hawaii at Manoa (2019 – present)

Adjunct Associate Professor, Dept. Wildland Resources, Utah State University (2008-present)

WERA-1008, Rangelands West Partnership (2004-present)

WERA-1008, Rangelands West Partnership – Executive Board (2009-2012)

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| Category | Current Number of Students | Number Graduated (Career) |
| *Chair* of Master’s Committees | 0 | 1 |
| *Chair* of PhD Committees | 1 | 0 |
| Member of Master’s Committees | 0 | 3 |
| Member of PhD Committees | 1 | 0 |

**Grant Support**

Title of Grant: 2004 Mealani Forage Field Day: Meeting a world of demand.

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $10,500

Dates of Grant: 06/2004 – 12/2004

Role (PI, CoPI): PI

Title of Grant: UH Rangelands West Incentive Grant – Building Knowledge of Sustainable Rangeland Management Using Information Technology

Source of Grant: USDA-WSARE

Total Dollar Value (Your share of the grant value): $4,000

Dates of Grant: 06/2004 – 04/2007

Role (PI, CoPI): coPI

Title of Grant: Best Management Practices for the Sustainable Productivity of Hawaii’s Range and Pasture Lands

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $50,000

Dates of Grant: 10/2004 - 09/2009

Role (PI, CoPI): PI

Title of Grant: Hawaii Grazing and Livestock Management Academy

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $53,152

Dates of Grant: 10/2004 – 10/2007

Role (PI, CoPI):

Title of Grant: 2005 Mealani Forage Field Day: Improved Livestock and Forage Production Through Sustainable Management Practices

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $8,800

Dates of Grant: 06/2005 – 12/2005

Role (PI, CoPI): PI

Title of Grant: 2005 Sheep Producer’s Sustainable Grazing Management Workshop

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $7,810

Dates of Grant: 06/2005 – 12/2005

Role (PI, CoPI): PI

Title of Grant: Animal Nutrition and Forage Production Profiling Project

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $17,110

Dates of Grant: 06/2005 – 05/2007

Role (PI, CoPI): PI

Title of Grant: Best Management Practices for the Remediation of Former Sugarcane and Pineapple Lands for Sustainable Livestock Production in Hawaii

Source of Grant: USDA-TSTAR

Total Dollar Value (Your share of the grant value): $262,013

Dates of Grant: 08/2005 – 08/2008

Role (PI, CoPI): PI

Title of Grant: CES Outreach and Education Program for NAIS Implementation Project

Source of Grant: USDA/HDOA

Total Dollar Value (Your share of the grant value): $81,200

Dates of Grant: 10/2005 – 04/2007

Role (PI, CoPI):

Title of Grant: 2006 Mealani Forage Field Day: Hawaii Grown Beef – From Pasture to Market

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $13,122

Dates of Grant: 06/2006 - 12/2006

Role (PI, CoPI): PI

Title of Grant: 2006 Sheep Producer’s Sustainable Grazing Management Workshop

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $12,242

Dates of Grant: 06/2006 -12/2006

Role (PI, CoPI): PI

Title of Grant: Survey of the Natural Resources, Fine-fuel Loads, and Extent of Fountain Grass Invasion on Rangelands in the Puu Waawaa Area of West Hawaii

Source of Grant: West Hawaii Wildfire Management Organization

Total Dollar Value (Your share of the grant value): $86,241

Dates of Grant: 07/2006 – 06/2008

Role (PI, CoPI): PI

Title of Grant: 2007 Mealani Forage Field Day: Risk Management for Grass-Based Operations

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $14,209

Dates of Grant: 07/2007 – 03/2008

Role (PI, CoPI): PI

Title of Grant: CES Outreach and Education Program for the NAIS Implementation Project

Source of Grant: USDA/HDOA

Total Dollar Value (Your share of the grant value): $49,000

Dates of Grant: 07/2007 – 06/2008

Role (PI, CoPI): PI

Title of Grant: Development of Best Management Practices for the Control of Madagascar Fireweed (*Senecio madagascariensis* Poiret) in Maui County

Source of Grant: Maui County Research and Development

Total Dollar Value (Your share of the grant value): $34,056

Dates of Grant: 09/2007 – 08/2008

Role (PI, CoPI): PI

Title of Grant: Development of Best Management Practices for the Control of Madagascar Fireweed (*Senecio madagascariensis* Poiret) in Hawaii

Source of Grant: Hawaii Farm Bureau Federation Research and Market Development Program

Total Dollar Value (Your share of the grant value): $40,000

Dates of Grant: 09/2007 – 08/2008

Role (PI, CoPI): PI

Title of Grant: Hawaii Rainfall and Forage Production Index Project

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $146,668

Dates of Grant: 10/2007 – 09/2010

Role (PI, CoPI): PI

Title of Grant: 2008 Stockman’s Fall Field Day: Behavior-based Grazing Management for Improved Animal Performance, Pasture Condition, and Ranch Profitability

Source of Grant: USDA-NRCS

Total Dollar Value (Your share of the grant value): $15,930

Dates of Grant: 07/2008 – 06/2009

Role (PI, CoPI): PI

Title of Grant: Development of Best Management Practices for the Control of Madagascar Fireweed (*Senecio madagascariensis* Poiret) in Maui County

Source of Grant: Maui County Research and Development

Total Dollar Value (Your share of the grant value): $19,929

Dates of Grant: 07/2008 – 08/2010

Role (PI, CoPI): PI

Title of Grant: Australian Leucaena Study Tour

Source of Grant: HDOA – Agribusiness Development Corporation

Total Dollar Value (Your share of the grant value): $43,000

Dates of Grant: 10/2008 – 12/2010

Role (PI, CoPI): PI

Title of Grant: Extension Outreach and Assistance in Improved Pasture and Livestock Management Practices for Pacific Islanders

Source of Grant: USDA-OASDFR

Total Dollar Value (Your share of the grant value): $297,224

Dates of Grant: 12/2008 – 11/2011

Role (PI, CoPI): PI

Title of Grant: Pasture Forage and Weed Database and Herbarium for Maui County

Source of Grant: Maui County Research and Development

Total Dollar Value (Your share of the grant value): $8,000

Dates of Grant: 07/2009 – 08/2010

Role (PI, CoPI): PI

Title of Grant: Quantifying Secondary Compounds in Common Pasture Vegetation for Behavior Based Grazing Management in Hawaii

Source of Grant: USDA-WSARE

Total Dollar Value (Your share of the grant value): $40,401

Dates of Grant: 01/2010 – 12/2012

Role (PI, CoPI): PI

Title of Grant: Outreach and Assistance in Tropical Pasture and Livestock Management for Pacific Islanders

Source of Grant: USDA-OASDFR

Total Dollar Value (Your share of the grant value): $1,036,222

Dates of Grant: 10/2010 – 08/2013

Role (PI, CoPI): PI

Title of Grant: Ecology, Toxicology, and Management of Madagascar Fireweed (*Sececio madagascariensis* Poiret) in Tropical and Sub-tropical Rangelands

Source of Grant: USDA-TSTAR

Total Dollar Value (Your share of the grant value): $258,449

Dates of Grant: 11/2010 – 10/2013

Role (PI, CoPI): PI

Title of Grant: Fireweed Biological Control Project: *Secusio extensa* Rearing and Distribution

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $15,556

Dates of Grant: 07/2012 -06/2013

Role (PI, CoPI): PI

Title of Grant: Best Management Practices for the Sustainable Productivity of Hawaii’s Range and Pasture Lands – Supplemental Funding for Hawaii Rainfall and Forage Index Project

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $70,000

Dates of Grant: 10/2012 – 09/2014

Role (PI, CoPI): PI

Title of Grant: Enhancing the Sustainability of Grass-Finish Beef Production in Hawaii via Carcass and Meat Quality Improvement

Source of Grant: USDA-WSARE

Total Dollar Value (Your share of the grant value): $49,948

Dates of Grant: 09/2013 – 10/2016

Role (PI, CoPI): coPI

Title of Grant: Fireweed Biocontrol in Hawaii’s Rangelands: Integrating Research and Extension for Better Management.

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): 10/2013 – 09/2015

Dates of Grant: $54,610

Role (PI, CoPI): coPI

Title of Grant: Assessment of *Secusio extensa* for the Biological Control of Fireweed (*Senecio madagascariensis*) in Hawaii

Source of Grant: USDA-NIFA-RIPM

Total Dollar Value (Your share of the grant value): $98,940

Dates of Grant: 10/2013 - 09/2016

Role (PI, CoPI): coPI

Title of Grant: Linking the Effects of Stocking Density, Forage Environment, and Climatic Conditions to Animal Performance in Tropical Forage Finish Beef Production Systems.

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $99,878

Dates of Grant: 10/2014 – 09/2016

Role (PI, CoPI): PI

Title of Grant: Development of Individual Free-Choice Mineral Supplementation Program for Sustainable Grazing Management of Hawaii’s Rangelands

Source of Grant: USDA-WSARE

Total Dollar Value (Your share of the grant value): $332,601

Dates of Grant: 04/2016 – 12/2019

Role (PI, CoPI): PI

Title of Grant: The Effects of Stocking Density, Forage Environment, and Climate on Animal Performance in Tropical Forage Finish Beef Production

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $80,000

Dates of Grant: 10/2016 – 09/2018

Role (PI, CoPI): PI

Title of Grant: *Prosapia bicincta* (Two-line spittlebug) Detection and Control in Hawaii County

Source of Grant: Hawaii County R&D/BIRC&DC

Total Dollar Value (Your share of the grant value): $22,473

Dates of Grant: 06/2017 – 06/2019

Role (PI, CoPI): PI

Title of Grant: Hawaii Rangeland Management Education and Outreach Program

Source of Grant: USDA-RREA

Total Dollar Value (Your share of the grant value): $45,000

Dates of Grant: 07/2017 – 06/2021

Role (PI, CoPI): PI

Title of Grant: *Prosapia bicincta* (Two-line Spittlebug) Detection and Control in Hawaii

Source of Grant: HDOA

Total Dollar Value (Your share of the grant value): $300,000

Dates of Grant: 08/2017 – 10/2019

Role (PI, CoPI): PI

Title of Grant: *Prosapia bicincta* (Two-line Spittlebug) Detection and Control in Hawaii

Source of Grant: Hawaii Dept. of Natural Resources-HISC

Total Dollar Value (Your share of the grant value): $50,000

Dates of Grant: 09/2017 – 04/2019

Role (PI, CoPI): PI

Title of Grant: Strengthening RREA Programing Through Enhanced Connections: A Web-based Conference Series

Source of Grant: USDA-RREA

Total Dollar Value (Your share of the grant value): $49,995

Dates of Grant: 09/2018 – 08/2020

Role (PI, CoPI): PI

Title of Grant: Livestock Extension Group Coordination: Extension POW 14-242

Source of Grant: USDA-CSREES

Total Dollar Value (Your share of the grant value): $124,973

Dates of Grant: 10/2019 – 09/2024

Role (PI, CoPI): PI

Title of Grant: *Prosapia bicincta* (Two-line Spittlebug) Detection and Control in Hawaii

Source of Grant: HDOA

Total Dollar Value (Your share of the grant value): $673,989

Dates of Grant: 10/2019 – 09/2021

Role (PI, CoPI): PI

**Presentations at Conferences**

Title: Changes in vegetative community composition following Twoline Spittlebug (*Prosapia bicincta*) infestations in Hawaii Rangelands.

Authors (\*presenter): \***Thorne, M.S**., M. Wright, S. Wilson, J. Mack, and M. Oshiro.

Name of Conference: 73rd. Annual Meeting of the Society for Range Management

Location: Denver, Colorado

Date of Presentation: February 16-20, 2020

Title: Detection and management of Two-Lined Spittlebug (*Prosapia bicincta*) on Hawaii Rangelands.

Authors (\* presenter): \***Thorne, M.S.,** M. Wright, G. Fukumoto, D. Oishi, S. Wilson, J. Mack, and M. Oshiro

Name of Conference: 72nd Annual meeting of the Society for Range Management.

Location: Minneapolis, Minasota.

Date of Presentation: February 10-14, 2019

Title: Mineral Supplementation Program Development and Education for Hawaii Rangelands.

Authors (\* presenter): \***Thorne, M.S.**, J.P. Hewlett, G.K. Fukumoto, M.A. Oshiro

Name of Conference: Association of Natural Resource Professionals 2018 Conference

Location: Beloxi, Mississippi

Date of Presentation: April 29-May 3, 2018

Title: Development of an individual free-choice mineral supplementation program for improved grazing management in Hawaii’s rangelands.

Authors (\* presenter): \***Thorne, M.S**., J.P. Hewlett, G.K. Fukumoto, M.A. Oshiro.

Name of Conference: 71st Annual meeting of the Society for Range Management

Location: Sparks, Nevada

Date of Presentation: January 27-February 3, 2018

Title: Effects of animal behavior on core-body temperature and production efficiency of grass-finished cattle.

Authors (\* presenter): \*Oshiro, M., **M.S. Thorne**, C.N. Lee, Y.S. Kim, G. Fukumoto.

Name of Conference: 71st Annual meeting of the Society for Range Management

Location: Sparks, Nevada

Date of Presentation: January 27-February 3, 2018

Title: Developing the next Renewable Resources Extension Act strategic plan for 2018-2022

Authors (\* presenter): \*Dalke, A., B. Hutchinson, S. Merrigan, G. Ruyle, J. Tanaka, **M.S. Thorne**.

Name of Conference: 71st Annual meeting of the Society for Range Management

Location: Sparks, Nevada

Date of Presentation: January 27-February 3, 2018

Title: Animal behavior, body core temperature, and production efficiency of grass-finished cattle.

Authors (\* presenter): \***Thorne, M.S.**, M.A. Abran, C.N. Lee, G. Fukumoto

Name of Conference: 69th Annual meeting of the Society for Range Management

Location: Corpus Christi, Texas

Date of Presentation: January 31-February 4, 2016

Title: Forage quality and weaning weight influences grass-finished cattle performance and meat quality

Authors (\* presenter): \***Thorne, M.S.,** G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and M. A. Abran

Name of Conference: 68th Annual Meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

Title: Grazing management for tropical grass-finish beef production

Authors (\* presenter): \***Thorne, M.S.,** G.K. Fukumoto, Y.S. Kim, C.N. Lee, M.H. Stevenson, and M. A. Abran

Name of Conference: 68th Annual Meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

Title: Drought management tools for Hawaii’s rangelands

Authors (\* presenter): \***Thorne, M.S.,** G.K. Fukumoto, M.H. Stevenson, and M. A. Abran

Name of Conference: 68th Annual Meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

Title: Conditioned preference training of livestock for tropical weed management.

Authors (\* presenter): \*Stevenson, M.H., and **M.S. Thorne.**

Name of Conference: 68th Annual Meeting of the Society for Range Management

Location: Sacramento, California

Date of Presentation: January 30 – February 7, 2015

Title: Hawaii Rainfall and Forage Production Index: An Evaluation Tool for Drought Affected Rangelands

Authors (\* presenter): \***Thorne, M.S**., J.P. Hewlett, G.K. Fukumoto, M. Stevenson, and M. A. Abran

Name of Conference: 67th Annual Meeting of the Society for Range Management

Location: Orlando Florida

Date of Presentation: February 8-13, 2014.

Title: Secondary Compound Interactions: The effect of condensed tannins on the toxicity of fireweed (Senecio madegascariensis) to cattle

Authors (\* presenter): \*Wong, C.,F. Provensa, **M.S. Thorne,** J. Phister, and D. Gardner

Name of Conference: 65th Annual Meeting of the Society for Range Management

Location: Spokane Washington

Date of Presentation: January 29 – February 3, 2012

Title: Extension Outreach in Tropical Range and Livestock Management for Pacific Islanders.

Authors (\* presenter): \***Thorne, M.S.**, J. Deenik, R. Godfrey, G. Fukumoto, J. Powley, M. Stevenson, L. Duponcheel, A. Badilles

Name of Conference: 64th Annual Meeting of the Society for Range Management

Location: Billings Montana

Date of Presentation: February 6-10, 2011

Title: Grazing Management of Arid Perennial Grasses or The Strange Case of the Puu Waawaa – Puu Anahulu Ahupuaa

Authors (\* presenter): \***Thorne, M.S.**

Name of Conference: Western Society for Weed Science Annual Meeting

Location: Kona Hawaii

Date of Presentation: March 11, 2010

Title: Content Development Process for Rangelandswest.org, Symposium on Western Rangelands Partnership: using the internet for information transfer

Authors (\* presenter): \***Thorne, M.S.**

Name of Conference: 62nd Annual Meeting of the Society for Range Management

Location: Albuquerque, New Mexico

Date of Presentation: February 8-13, 2009

Title: Haleakala Ranch: Managing for resource stability, economic productivity, and community wellbeing in Hawaii.

Authors (\* presenter): \*Friel, G., **M.S. Thorne**, and M. Stevenson

Name of Conference: 62nd Annual Meeting of the Society for Range Management

Location: Albuquerque, New Mexico

Date of Presentation: February 8-13, 2009

Title: Wild ungulate herbivory of willow outside of national parks is a significant management consideration.

Authors (\* presenter): \*Meiman, P.J., **M.S. Thorne**, Q.D. Skinner, M.A. Smith, and J.L. Dodd

Name of Conference: 62nd Annual Meeting of the Society for Range Management

Location: Albuquerque, New Mexico

Date of Presentation: February 8-13, 2009

Title: Fireweed (*Senecio madagascariensis* Poiret) control: an adaptive management approach

Authors (\* presenter): \***Thorne, M.S.**, D.R. Gardner, J.S. Powley, G.K. Fukumoto, and M.H. Stevenson

Name of Conference: 2008 Extension Galaxy III Conference, Joint Council of Extension Professionals

Location: Indianapolis, Indiana

Date of Presentation: September 15-19, 2008

Title: Remediation of former sugarcane lands for sustainable forage production

Authors (\* presenter): \***Thorne, M.S.**, J.L. Deenik, H.H. Keyser, L.J. Cox, and M.H. Stevenson.

Name of Conference: 2008 Joint meeting of the Society for Range Management and the American Forage and Grassland Council

Location: Louisville, Kentucky

Date of Presentation: January 26-31, 2008

Title: Fireweed (*Senecio madagascariensis* Poiret) control: an adaptive management approach

Authors (\* presenter): \***Thorne, M.S.**, D.R. Gardner, J.S. Powley, G.K. Fukumoto, and M.H. Stevenson

Name of Conference: 2008 Joint meeting of the Society for Range Management and the American Forage and Grassland Council

Location: Louisville, Kentucky

Date of Presentation: January 26-31, 2008

Title: CO2 exchange rates and plant-soil responses to soil loss on shortgrass prairie and sagebrush steppe sites

Authors (\* presenter): \***Thorne, M.S.,** M.J. Trlica, W.C. Leininger, R.D. Child, and D.A. Klein

Name of Conference: Society for Range Management 56th Annual Meeting,

Location: Casper, Wyoming

Date of Presentation: Feb. 1-6, 2003

Title: Soil loss effects on photosynthetic rates of western wheatgrass and blue grama grass

Authors (\* presenter): \***Thorne, M.S.,** M.J. Trlica, W.C. Leininger, and R.D. Child

Name of Conference: Society for Range Management 54th Annual Meeting

Location: Kailua-Kona, Hawaii

Date of Presentation: Feb. 17-23, 2001

Title: Soil loss effects on soil respiration rates of two rangeland ecosystems.

Authors (\* presenter): \***Thorne, M.S.,** M.J. Trlica, W.C. Leininger, and R.D. Child

Name of Conference: Society for Range Management 54th Annual Meeting

Location: Kailua-Kona, Hawaii

Date of Presentation: Feb. 17-23, 2001

Title: Estimates of the variability in measuring canopy volume among observers and within observations

Authors (\* presenter): \***Thorne, M.S.,** J.D. Rodgers, Q.D. Skinner, M.A. Smith, W.A. Laycock, J.L. Dodd, and S. Cerekci

Name of Conference: Society for Range Management 51st Annual Meeting

Location: Guadalajara, Jalisco. Mexico

Date of Presentation: Feb. 8-12, 1998

Title: Final Report-Effects of herbivory on Willow (*Salix* spp.) canopy volume on mountain rangelands of northern Wyoming

Authors (\* presenter): \***Thorne, M.S.,** Q.D. Skinner, M.A. Smith, W.A. Laycock, and J.L. Dodd

Name of Conference: Society for Range Management 51st Annual Meeting

Location: Guadalajara, Jalisco. Mexico

Date of Presentation: Feb. 8-12, 1998

Title: Final Report-Effects of the frequency of simulated browsing events on Willow (*Salix* spp.) biomass production

Authors (\* presenter): \***Thorne, M.S.,** Q.D. Skinner, M.A. Smith, W.A. Laycock, and J.L. Dodd

Name of Conference: Society for Range Management 51st Annual Meeting

Location: Guadalajara, Jalisco. Mexico

Date of Presentation: Feb. 8-12, 1998

Title: Effects of herbivory on Willow (*Salix* spp.) canopy volume on mountain rangelands of northern Wyoming

Authors (\* presenter): \***Thorne, M.S.,** Q.D. Skinner, M.A. Smith, and W.A. Laycock

Name of Conference: Society for Range Management 50th Annual Meeting

Location: Rapid City, South Dakota

Date of Presentation: Feb. 16-21, 1997

JINZENG YANG, Ph.D.

### EDUCATION

Dept of Human Nutrition, Food and Animal Sciences

CTAHR, University of Hawaii at Manoa

1955 East West Road, Room 216, Honolulu, HI 96822

Phone: 808 956 6073; Fax: 956 4024

E-mail: [jinzeng@hawaii.edu](mailto:jinzeng@hawaii.edu)

**Ph.D.**: Animal Science, University of Alberta, Canada, 2000

**M.Sc.**: Animal Genetics, Huazhong Agricultural University, China 1988

**B.Sc.**: Animal Science, Agricultural University of Hebei, China 1985

### EMPLOYMENT EXPERIENCES

**2016-Present, Chairman and Professor,**

01/2018-12/2018, Associate Dean for Research (Interim), CTAHR

2015 - Present: Professor of Animal Molecular Genetics

70% Research and 30% Teaching, Tenured in 2009

2002 –07: Assistant Professor, 2008-14: Associate Professor, 2015-present: Full Professor

#### Dept of Human Nutrition, Food & Animal Sciences,

#### College of Tropical Agriculture and Human Resources, University of Hawaii at Manoa

Research Interests:● Development of transgenic animals for biomedical sciences

* + - * Animal Genetic research programs in beef cattle, shrimp and fish
      * Molecular biology of skeletal muscle and diabetes prevention

**08-12/2013, Sabbatical Leave, John A. Burns School of Medicine UHM, and China Academy of Agricultural Science, Beijing China**

Creating transgenic animals by piggyBac transposon

**01/2000 - 08/2002: Research Molecular Biologist/Postdoctoral fellow**

## Laboratory of Animal Bioscience and Biotechnology, USDA-ARS, Beltsville, Maryland

Research project: Transgenic approaches to study muscle development in mice and pigs

**1994 - 2000: Research Assistant in Ph.D. program, University of Alberta**

Research projects: Transcription factor Stat5 and hormonal regulation of bovine lactation

**1989 - 1994: Research Scientist, Huazhong Agricultural University, Wuhan, China**

Research Projects: Pig genetics on muscle growth and meat quality

**1988 - 1989: Visiting Scientist,** Fudan University Medical School, China

Research Project: Protein kinase C in relation to liver development and tumorgenesis**.**

**1985 - 1988: Research Assistant in MSc program, HAU, China**

Thesis: Serum CK, LDH and RYR1 Mutations in pigs.

TEACHING EXPERIENCES

* Genes and Animal Biology (ANSC446)
* DNA and Genetic Analysis (MBBE/ANSC650)
* Physiology of Domestic Animals (ANSC450)

AWARDS

* The Grand Prize of Best Poster, Beltsville Agricultural Research Center, USDA, 2001
* Visiting fellowship in the Canadian Government Laboratories, 1998
* University of Alberta Ph.D. Scholarship ($18000/year), 1994 and 1995
* The First Prize Scientific Research Award, Ministry of Education, China, 1992

Scientific affIliations

Member, The Endocrine Society; 2007-present; World Aquaculture Society, 2020.

**Professional Activities**

1. **Editorial Board:** Scientific Reports, 2014-Present.
2. **Editorial Board:** Journal of Agricultural Biotechnology, 2011-Present.
3. **Editorial Board**: Animal - An International Journal of Animal Bioscience (2005-2011)
4. **Ad Hoc Reviewer**, Genetics, Am J Physiol, J. Appl Physiol, Endocrinology, J Anim Sci, Int J Biol Sci. PlosOne, Dev Biol. Genetics, Genomics
5. **Ad Hoc Reviewer**, USDA, NSF, China NSF, Canada NSERC

### PUBLICATIONS

1. Xu Y, Xu H, Wall MW, **Yang J**. 2020. Roles of transcription factor SQUAMOSA promoter binding protein-like gene family in papaya (*Carica papaya*) development and ripening, *Genomics* https://doi.org/10.1016/j.ygeno.2020.03.009.
2. Zeng F, Zhao C, Wu X, Dong R, Li G, Zhu Q, Zheng E, Liu D, **Yang J**, Moisyadi S, Urschitz J, Li Z, Wu Z. 2020. Bacteria-induced expression of the pig-derived protegrin-1 transgene specifically in the respiratory tract of mice enhances resistance to airway bacterial infection. Scientific Reports. 2020 Sep 29;10(1):16020. doi: 10.1038/s41598-020-73084-2.
3. Li B, Cui W, **Yang J**. 2020. Enhanced skeletal muscle growth in myostatin-deficient transgenic pigs had improved glucose uptake in stretozotocin -induced diabetes. *Transgenic Research*. https://doi.org/10.1007/s11248-020-00194-y
4. Jin CL, Ye JL, **Yang J**, Gao CQ, Yan HC, Li HC, Wang XQ. 2019. mTORC1 Mediates Lysine-Induced Satellite Cell Activation to Promote Skeletal Muscle Growth. *Cells* 8, 1549.
5. Choi DH, **Yang J**, Kim YS. 2019. Rapamycin suppresses postnatal muscle hypertrophy

induced by myostatin-inhibition accompanied by transcriptional suppression of the Akt/mTOR pathway. *Biochem Biophys Rep*. 17:182–190.

1. Xu X, Mishra B, Qin N, Sun X, Zhang S, **Yang J**. Xu R. 2019. Differential Transcriptome Analysis of Early Postnatal Developing Longissimus Dorsi Muscle from Two Pig Breeds Characterized in Divergent Myofiber Traits and Fatness. *Animal Biotechnology* 30, 63-74,
2. Jin CL, Zhang ZM, Ye JL, Gao CQ, Yan HC, Li HC, **Yang J**, Wang XQ. 2019. Lysine-induced swine satellite cell migration is mediated by the FAK pathway. *Food & Function.* 10(2):583-591.
3. Zhang P, Xu H, Li R, Wu W, Chao Z, Li C, Xia W, Wang L, **Yang J**, Xu Y. 2018.

Assessment of myoblast circular RNA dynamics and its correlation with miRNA during myogenic differentiation*. Int J Biochem Cell Biol*. 99:211-218.

1. Yang H, Xia J, Zhang JE, **Yang J,** Zhao H, Wang Q, Sun J, Xue H, Wu Y, Chen J, Huang J, Liu L. 2018. Characterization of the Complete Mitochondrial Genome Sequences of Three Croakers (*Perciformes, Sciaenidae*) and Novel Insights into the Phylogenetics*. Int J Mol Sci*. 19(6):1741.
2. Yang H, Zhang J-E, Xia J, **Yang J**, Guo J, Deng Z, Luo M. 2018. Comparative Characterization of the Complete Mitochondrial Genomes of the Three Apple Snails (*Gastropoda: Ampullariidae*) and the Phylogenetic Analyses. International *Journal of Molecular Sciences.* 2018; 19(11):3646.
3. Zhang X. Li Z, Yang H, Liu D, Cai G, Zheng E, Meng F, He X, Li G, Zhong G, Zhang M, Wang D, Sun Y, Shi S, Zhou R, Huang M, Zhang R, Li N, Fan MZ, **Yang J**, Wu Z. 2018. Generation of a novel growth-enhanced and reduced environmental impact transgenic pig. *eLife* **7**:e34286.
4. Li B, Xie S, Cai C, Qian L, Jiang S, Ma D, Xiao G, Gao T, **Yang J**, Cui W. 2017. MicroRNA-95 promotes myogenic differentiation by down-regulation of aminoacyl-tRNA synthase complex-interacting multifunctional protein 2. *Oncotarget.* 8(67):111356-111368.
5. Zhang L, Zhou Y, Wu WJ, Hou LM, Chen HX, Zuo B, Xiong YZ, **Yang J**. 2017. Skeletal muscle-specific overexpression of PGC-1α induces fiber-type conversion through enhanced mitochondrial respiration and fatty acid oxidation in mice and pigs. *International Journal of Biological Science* 13(9):1152-1162
6. Qian L, Tang M, **Yang J**, et al. Targeted mutations in myostatin by zinc-finger nucleases result in double-muscled phenotype in Meishan pigs. *Scientific Reports*. 2015; 5:14435. doi:10.1038/srep14435.
7. Miao Y, **Yang J**, Xu Z, Jing L, Zhao S, Li X. 2015. RNA Sequencing Identifies Upregulated Kyphoscoliosis Peptidase and Phosphatidic Acid Signaling Pathways in Muscle Hypertrophy Generated by Transgenic Expression of Myostatin Propeptide. *International Journal of Molecular Sciences*. 16(4):7976-7994.
8. Javed R, Jing L, **Yang J**, Li X, Cao J, Zhao S. 2014. miRNA Transcriptome of Hypertrophic Skeletal Muscle with Overexpressed Myostatin Propeptide. *Biomed Res Int.* 328935. Epub 2014 Jul 24.
9. Zhou Y, **Yang J**, Huang J, Li T, Xu D, Zuo B, Hou L, Wu W, Zhang L, Xia X, Ma Z, Ren Z, Xiong Y. 2014. The formation of brown adipose tissue induced by transgenic over-expression of PPARγ2. *Biochem Biophys Res Commun*. 446:959-964.
10. **Yang J,** 2014. Enhanced skeletal muscle for effective glucose homeostasis. *Progress in Molecular Biology and Translational Science* 121:133-63.
11. Hou L, Ma F, **Yang J**, Riaz H, Wang Y, Wu W, Xia X, Ma Z, Zhou Y, Zhang L, Ying W, Xu D, Zuo B, Ren Z, Xiong Y. 2014. Effects of histone deacetylase inhibitor oxamflatin on in vitro porcine somatic cell nuclear transfer embryos. *Cell Reprogram.* 16:253-265.
12. Wang K, Li Z, Li Y, Zeng J, He C, **Yang J**, Liu D, Wu Z. 2013. Muscle-specific transgenic expression of porcine myostatin propeptide enhances muscle growth in mice. *Transgenic Res*. 22:1011-9.
13. **Yang J,** 2013. Roles of myostatin propeptide in promoting skeletal muscle growth and metabolism (Book Chapter. In “Skeletal Muscle: Physiology, Classification and Disease” edited by M. Willems, Nova Sci. Publisher. Page 207-218.
14. Wu L, **Yang J**. 2012. Identifications of captive and wild tilapia species existing in Hawaii by mitochondrial DNA control region sequence. *PLoS One.* 7(12):e51731.
15. Li Z, Zeng F, Mitchell AD, Kim YS, Wu Z, **Yang J\***. 2011. Transgenic overexpression of bone morphogenetic protein 11 propeptide in skeleton enhances bone formation. *Biochem Biophys Res Commun*. 416: 289-92.
16. Pan G and **Yang J**. 2010. Analysis of Microsatellite DNA Markers Reveals no Genetic Differentiation between Wild and Hatchery Populations of Pacific Threadfin in Hawaii. *International Journal of Biological Science* 6:827-833
17. Li Z, Kawasumi M, Zhao B, Moisyadi S, **Yang J**. 2010. Transgenic Over-expression of Growth Differentiation Factor 11 Propeptide in Skeleton Results in Transformation of the Seventh Cervical Vertebra into a Thoracic Vertebra *Molecular Reproduction and Development* 77: 990-997.
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19. Yang Y, **Yang J**, Liu R, Li H, Luo X, Yang G. 2010. Accumulation of beta-catenin by lithium chloride in porcine myoblast cultures accelerates cell differentiation. *Molecular Biology Reports* 38:2043-2049
20. Watanabe S, Zhao B, Ako H, **Yang J\***. 2010. Identifications of expressed sequence tags from Pacific threadfin skeletal muscle cDNA library. *Aquaculture Research* 41: 572-578.
21. Wang H, Iwai TJ, Zhao B, Lee CS, **Yang J\*.** 2010. Identification of microsatellite DNA markers for Pacific threadfin parentage assignment. *J. World Aquaculture Society,* 41: 640-647.
22. Pan G and Yang J. 2010. Analysis of Microsatellite DNA Markers Reveals no Genetic Differentiation between Wild and Hatchery Populations of Pacific Threadfin in Hawaii. *International Journal of Biological Science* 6:827-833
23. Zhao B, Li EJ, Wall RJ, **Yang J\*.** 2009. Coordinated patterns of gene expression for adult muscle build-up in transgenic mice expressing myostatin propeptide. *BMC Genomics*. 10:305-315.
24. Li Z, Zhao B, Kim YS, Hu, CY, **Yang J**. 2009. Administration of a mutated myostatin propeptide to neonatal mice significantly enhances skeletal muscle growth. *Molecular Reproduction and Development* 77:76-82.
25. Laoong-u-thai Y, Zhao B, Phongdara A, Ako H, **Yang J**. 2009. Identifications of SUMO-1 cDNA and its expression patterns in Pacific white shrimp Litopeanaeus vannamei. *Int J Biol Sci. 5:205-14.*
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28. Cesar, JR, Zhao B, **Yang J.** 2008. Analysis of expressed sequence tags from abdominal muscle cDNA library of the pacific white shrimp *Litopenaeus vannamei*. *Animal*. 2: 1377-83.
29. Suzuki,ST, Zhao B, **Yang J**. 2008. Enhanced muscle by myostatin propeptide increases adipose tissue adiponectin, PPAR-α and PPAR- γ expressions. *Biochem. Biophys. Res. Commun.* 369: 767-73.
30. **Yang J**, Ferreira R, DuPonte MW, Fukumoto GK, Zhao B. 2008. Growth performances of F1 Angus Plus calves grazing on pasture in Hawaii’s tropical climate. *Tropical Animal Health and Production.* 40: 1438-1444.
31. Wu Z, Li Z, **Yang J**. 2008. Transient transgene transmission to piglets by intrauterine insemination of spermatozoa incubated with DNA fragments. *Molecular Reproduction and Development* 75: 26-32*.*
32. Bobbili NK, Kim YS, Dunn MA, **Yang J**, Ong A. 2008. Effects of maternal immunisation against myostatin on post-natal growth and skeletal muscle mass of offspring in mice. *Food and Agricultural Immunology.* 19: 93-106.
33. Cesar J and **Yang J**. 2007. Expression patterns of ubiquitin, heat shock protein 70, alpha-actin and β-actin over the molt cycle in the abdominal muscle of marine shrimp *Litopenaeus vannamei*. *Molecular Reproduction and Development* 74: 554-559.
34. Li EJ, Zhao B, **Yang J.** 2007. Enhanced myogenesis in adult muscle by transgenic expression of myostatin propeptide. Ethnicity and Disease 17: S563-564.
35. **Yang J**, Zhao B. 2006. Postnatal expression of myostatin propeptide cDNA maintained high muscle growth and normal adipose tissue mass in transgenic mice fed a high-fat diet. *Molecular Reproduction and Development* 73:462-469.
36. Cesar J, Zhao B, Malecha S, Ako H, **Yang J**. 2006. Morphological and biochemical changes in the muscle of the marine shrimp *litopenaeus vannamei* during the molt cycle. *Aquaculture* 261:688 -694.
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38. Zhao B, Wall RJ, **Yang J**. 2005. Transgenic expression of myostatin propeptide prevents diet-induced obesity and insulin resistance. *Biochemical and Biophysical Research Communications.* 337:248-255.
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### RESEARCH GRANTS (J YANG AS PI)

1. Nutrient Bioavailability-Phytonutrients and Beyond, USDA-Hatch, 2019-present, $60K
2. Post-harvest food technology and nutrition/ Bioactive Compound. USDA, 2018-20. $50K
3. Genetic improvement of broodstock shrimp breeding. USDA-Hatch. 2015-2018. $50,000
4. Hosting Thailand Cochran Fellows on Resilient Agriculture, USDA-FAS. 2017-2018. $60,000.
5. Grass-fed beef production and evaluation in Hawaii, Ulupono Initiative. 2014-2018, $160,000
6. Role of bone morphogenic protein 11 in musculoskeletal formation and development

Hawaii Community Foundation, 2013-2015, $49,000.

1. DNA-based shrimp genetic program, Oceanic Institute, 2013-2015, $45,000.
2. Genetic Improvement of Muscle Growth for Grass-fed Beef Production. CTAHR Supplemental Fund, 2013-2015, $49,000
3. Development of DNA-based testing for shrimp broodstock breeding program. CTAHR USDA-HATCH, 2012-2013.
4. Down-regulation of bone morphogenic protein-11 by its propeptide during embryonic development. NIH-NCRR, 2010-2011, $72,203
5. DNA-based selection of high-growth tilapia for local aquaculture

USDA-NIFA-CTSA, 2011-2013. $100,000

1. Development of DNA markers for pacific threadfin aquaculture.

USDA-NIFA-CTSA, 2006-2010. $200,000

1. Role of myostatin (GDF-8) prodomain in promoting animal growth.

USDA-CSREES, 2003-2009, $202,300

1. Growth hormone receptor DNA polymorphisms and their associations with cattle growth USDA-CSREES, 2005-2009, $210,588,
2. Identification of shrimp muscle regulatory genes.

USDA-CSREES. 2004-2009. $240,468

1. Muscle-fat Interactions and Obesity Prevention

Hawaii Community Foundation, 2004-2008, $98,000

1. Selection of beef cattle through DNA and Ultrasound Technology

Hawaii Farm Bureau Federation, 2007-2008, $70,000.

### GRADUATE STUDENTS, POSTDOCTORAL FELLOWS AND VISITING SCHOLARS IN DR. YANG’S LAB

1. Justin Legaspi, Gradaute student in Ph.D. Nutrition Sciences, 2020-present
2. Dionne Sesepasara, Graduate Student in ANSC program, 2020-present
3. Yongjie Xu, Research Associate Visiting Scholar, 2016-2017; 2018-2020
4. Fang Zeng, Visiting Scholar from South China Agricultural University, 2019-2020
5. Danita Dahl, Graduate Student in ANSC program, 2016-2018.
6. Micheal Wong, Gradaute Student in Ph.D. Nutrition, 2017-2018, Transfered
7. Donna Kuehu, Graduate student in ANSC program, 2014-2017
8. Xiaoxing Xu, Graduate student in ANSC program, 2015-2016
9. Lehua Wall, Graduate student in ANSC program, 2015-2016 (not registered)
10. Awat Yousif, Graduate student in MBBE Ph.D. program, 2007 to 2013
11. Ahmed Hussein, Graduate student in MBBE Ph.D. Program, 2008 to 2013
12. Dustin Moss, Graduat Student in MBEE Ph.D. Program, 2005-2013
13. Zicong Li, Graduate student in MBBE Ph.D. Program, 2006-2010
14. Jose Renato Cesar, Graduate Student in MBBE Ph.D. Program, 2003-2006
15. Mohhana G. Valmik, Graduate student in MBBE Ph.D. Program, 2003-2005, transferred.
16. Yanisa Laoong-u-thai, Visiting Ph.650D. Student from Thailand, 2008-2010
17. Waraporn Sakaew, Visiting Ph.D. Student from Thailand, 08/2011 to 12/2011
18. Sharon, Agacid, Graduate student in MBBE MSc Program, 2011-2014
19. Yevvon Lee, GraduatStudent in ANSC MSc Program, 2010 to 2013
20. Xin Zhang, Graduate Student in NREM MSc Program, 2012-2013, transferred.
21. Shizu Watanabe, Graduate student in MBBE MSc program, 2007-2010
22. Gavin Iwai, Graduate student in ANSC MSc Program, 2004-2010
23. Shana Suzuki, Graduate student in Nutrition MSc Program , 2005-2008
24. Nicole Sullivan, Graduate student in ANSC MSc Program, 2005-2008, Transferred
25. Lisa Corpus, Graduate student in MBBE MSc Program, 2004-2006
26. Dr. Liang Wu, Postdoctoral Fellow, 2010 to 2013
27. Dr. Gang Pan, Postdoctoral fellow, 2009-2010
28. Dr. Heng Wang, Postdoctoral Fellow, 2007 to 2009
29. Dr. Wentao Cui, Visiting Scholar from China, 2013-2014
30. Dr. Wenhui Pi, Visiting scientist from China, 2011 to 2012
31. Nine undergraduate and high school students in summer research program, 2005-2018
32. Hua Yang, Visiting Scholar from Xinjiang China, 2017-2018.
33. Huirong Yang, Visiting Scholar from South China Agricultural University, 2016-2017
34. Jun Xia, Visiting Scholar from Xinjiang China, 2016-2017
35. Yongjie Xu, Visiting Scholar from Xinyang Normal University, 2016-2017

Serve as a member of thesis committee for following graduate students

* Arthur Wong, Ph.D graduate student in MBBE program, 2013-2020
* Huong Vg, MS graduate student in MBBE program, 2019-20
* Nicole Correa, MSc graduate student in ANSC program, 2014 to 2017
* Thomas J. Hynd, Ph.D. Student in DRB Program, 2008-2013
* Joel Marh, MSc DBR student, 2013-2015
* Donghyuck Choi, MBBE MSc Student, 2012-2015
* Malina Ivey, MBBE MSc Student, 2011-2013
* Isabel Rushanaedy, M.Sc. Student in MBBE Program, 2009-2013
* Kyoung Ho Kim, Ph.D. Student in MBBE Program, 2007-2011
* Srivani Yarlagadda, M.Sc. Student in ANSC Program, 2008-2010
* Naveen Bobbili, M.Sc. Student in ANSC Program, 2006-2008
* Yun Kyung Lee, M.Sc. Student in ANSC Program, 2001-2003

**Conferences Abstracts in Refereed Journals**

1. Yang H, Xia J, Yang Y, Wang Q, Zhao H. **Yang J**. 2020. DNA Vaccine targeting to mature myostatin increases growth performances in orgage-spooted grouper Epinephelus Coioides, Aquaculture America 2020, February 9-12, 2020 Honolulu, HI USA.
2. Kurkjian K, Yamasaki L, **Yang J**, Odani J. 2020. Developoing a shrimp disease diagnosit laboratory in Hawaii. Aquaculture America 2020, February 9-12 2020, Honolulu, HI USA.
3. Dahl D\*, Haverly SN, Wagenman I, Nakamura T, Odani J, **Yang J.** 2020. Investigation of copepofs as a live feed for larval shrimp culture. Aquaculture America 2020, February 9-12 2020, Honolulu, HI USA.
4. Hussein A and **J Yang**, 2016. Enhanced Muscle Mass in Myostatin Propeptide Transgenic Mice Significantly Prevents Body Weight Loss during Prolonged Food Deprivation, Endo2016 (Boston, April 2016)
5. Hussein A, Cui, W, Xia J, **Yang J**. 2014. Double Transgenes of Myostatin and GDF11 Propeptides Lead to Further Growth and Muscle Mass Enhancement. Plant & Animal Genome XXII (San Diego, 2014). P851
6. Choi D, **Yang J**, Park SK, Kim YS. 2014. Muscle Hypertrophy induced by myostatin inhibition is suppressed by rapamycin adminstration. *J. Anim. Sci.* 92 (E-Suppl. 2): 157.
7. Javed R, Jing L, **Yang J**, Li X, Cao J, Zhao S. 2014. MiRNAs expression profiling in transgenic and wild type littermate mice by Solexa deep sequencing. 2014. *The 34 Int. Soc. Anim Genet. Conf*. 7.28-8.1/2014, Xian China), P3091.
8. Wang H, Sun L, Xu X, **Yang J**, Liu B. 2014. Enhanced effects of porcine WFIKKN2 on muscle cell development are assoiciated with down-regulated myostatin function. *The 34 Int. Soc. Anim Genet. Conf.* 7.28-8.1/2014, Xian China), P3047.
9. Yarlagadda S, Lee CN, Kim YS, **Yang J** and Ho WY, 2011. Effects of transgenic myostatin depression on reproductive parameters and placental superoxide dismutases in mice. ASAS Annual Meeting *J. Anim. Sci*. 89, E-Suppl. 1: 274
10. Yousif AN and **Yang J.** 2011. Role of Myostatin and Its Propeptide in Regulating Placenta Glucose Uptake. The 44th Annual Meeting of Society for Study of Reproduction (Portland, OR)
11. Li Z\*, Kawassumi M, Zhao B, Moisyadi S, and **Yang J**, 2010. Bone tissue-specific over-expression of growth differentiation factor 11 propeptide transgene causes homeotic transformation of the seventh cervical vertebra into a thoracic vertebra in mice. ASAS Annual Meeting (Denver CO, July) *J. Anim. Sci.* 88 (E-Suppl. 2): 201.
12. **Yang J**\*, Li Z, Zhao B, Kawasumi M, Moisyadi S,Mitchell A, Wall RJ. 2010. Transgenic Expressions of Growth Differentiation Factor 8 and 11 Propeptide Created Significant Musculoskeletal Phenotypes. 2010IDeA Meeting (Washintgon DC).
13. Li Z\*, Kawassumi M, Zhao B, Moisyadi S, and **Yang J**, 2010. Bone tissue-specific over-expression of growth differentiation factor 11 propeptide transgene causes homeotic transformation of the seventh cervical vertebra into a thoracic vertebra in mice. J. Anim. Sci. 88 (E-Suppl. 2): 201.
14. **J Yang**, Lee J, Ferreira R, DuPonte M, Fukumoto G. 2007. TG-repeat microsatellites of growth hormone receptor and their associations with growth performances in Angus Plus calves raised on subtropical pasture. *Journal of Animal Science* 88 (suppl. 1), 253.
15. Cesar J. Zhao B, **Yang J**. 2007. Analysis of expressed sequenced tags from abdominal muscle cDNA library of the pacific white shrimp Litopenaeus vannamei. *Journal of Animal Science* 88 (suppl. 1), 481.
16. **Yang J** and Zhao B. 2006. Effects of enhanced muscle mass on body fat deposition and insulin sensitivity. The FASEB Journal 20(4): A168.
17. **Yang J**., DuPonte M, Fukumoto G, Ferreira R. 2006. Growth Performances of Angus Plus Calves Grazing on Pasture in Hawaii Subtropical Climates. Journal of Animal Science 84 (suppl. 1): 421.
18. Zhao B, Wall RJ, Baracos VE, Dunn MA, Theriault A, **Yang J.** 2006. Coordinated Patterns Of Gene Expression For Skeletal Muscle Hypertrophy In Transgenic Mice Expressing Myostatin Propeptide. Plant & Animal Genomes XIV Conference, P755. Abstract.
19. **Yang J**, B Zhao, RJ Wall. 2005. Myostatin prodomain transgene significantly improves dietary fat utilization for animal muscle growth. *Journal of Animal Science*, 83 (suppl.1): 681.
20. Cesar JRO, Zhao B, Malecha S, **Yang J**. Characterization of muscle gene expression patterns over molt cycle in pacific white shrimp (Litopenaeus vannamei). *World Aquaculture 2005* (Bali, Indonesia).
21. **Yang J**, YS Kim, RJ Wall. 2004. Myostatin and its prodomain transgene expression. *Plant and Animal Genome XII Conference*, Page 293.
22. **Yang J**, Kim YS, Wall RJ. 2004. Myostatin and its prodomain transgene expression. *Plant and Animal Genome XII Conference*, 293.
23. **Yang J,** Ratovitski T, Brady JP, Solomon MB, Wells KD, Pursel VG, Wall RJ. 2001. Expression of a myostatin pro domain transgene increases muscle mass and decreases body fat, *Transgenic Research* 10: 563.
24. **Yang J**, Baracos VE, Kennelly JJ. 1998. Physiological regulation of mammary Stat5 and beta casein gene expression in rat and bovine mammary gland. *Journal of Dairy Science* 81 (Suppl.1): 92
25. **Yang J**, Baracos VE, Kennelly JJ. 1997. The role of Stat5 in controlling milk protein synthesis in dairy cows. *Journal of Dairy Science* 80 (Suppl.1): 204
26. **Yang J**, Baracos VE and Kennelly JJ. 1996 Mammary gland factor/Stat5 in bovine tissues. *Journal of Dairy Science* 79(Suppl.1): 131
27. **Yang J**. 1988. Serum creatine kinase, lactate dehydrogenase isozyme halothane test in relation to carcass quality. *Proceedings of World Animal Production Conference* (1988): 469.