Mi-Jeong Lee

University of Hawaii at Manoa

College of Tropical Agriculture and Human Resources

Department of Human Nutrition, Food and Animal Sciences

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

**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

**Employment**

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.

**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

**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.

6: Yang RZ, **Lee MJ**, Hu H, Pollin TI, Ryan AS, Nicklas BJ, Snitker S, Horenstein RB, Hull K, Goldberg NH, Goldberg AP, Shuldiner AR, Fried SK, Gong DW. Acute-phase serum amyloid A: an inflammatory adipokine and potential link between obesity and its metabolic complications. PLoS Med. 2006 Jun;3(6):e287.

7: **Lee MJ**, Fried SK. Multilevel regulation of leptin storage, turnover, and secretion by feeding and insulin in rat adipose tissue. J Lipid Res. 2006 Sep;47(9):1984-93. Epub 2006 May 31.

8: **Lee MJ**, Yang RZ, Gong DW, and Fried SK. Feeding and insulin increase leptin translation. Importance of the leptin mRNA untranslated regions. J Biol Chem. 2007 Jan 5;282(1):72-80. Epub 2006 Nov 3.

9: Varma V, Yao-Borengasser A, Rasouli N, Bodles AM, Phanavanh B, **Lee MJ**, Starks T, Kern LM, Spencer HJ 3rd, McGehee RE Jr, Fried SK, Kern PA. Human visfatin expression: relationship to insulin sensitivity, intramyocellular lipids, and inflammation. J Clin Endocrinol Metab. 2007 Feb;92(2):666-72. Epub 2006 Nov 7.

10: de Souza Batista CM, Yang RZ, **Lee MJ,** Glynn NM, Yu DZ, Pray J, Ndubuizu K, Patil S, Schwartz A, Kligman M, Fried SK, Gong DW, Shuldiner AR, Pollin TI, McLenithan JC. Omentin Plasma Levels and Gene Expression are Decreased in Obesity. Diabetes, Jun;56(6):1655-61. Epub 2007 Feb 28.

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.

14: Varma V, Yao-Borengasser A, Bodles AM, Rasouli N, Phanavanh B, Nolen GT, Kern EM, Nagarajan R, Spencer HJ 3rd, **Lee MJ**, Fried SK, McGehee RE Jr, Peterson CA, Kern PA. Thrombospondin-1 is an adipokine associated with obesity, adipose inflammation, and insulin resistance. Diabetes. 2008 Feb;57(2):432-9. Epub 2007 Dec 5.

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

16: Jobgen W, Meininger CJ, Jobgen SC, Li P, **Lee MJ**, Smith SB, Spencer TE, Fried SK, and Wu G, Dietary L-Arginine Supplementation Reduces White-Fat Gain and Enhances Skeletal Muscle and Brown Fat Masses in Diet-Induced Obese Rats. J Nutr. 2009 Feb;139(2):230-7. Epub 2008 Dec 23.

17: Lee EK, **Lee MJ**, Abdelmohsen K, Kim W, Kim MM, Srikantan S, Martindale JL, Hutchison ER, Kim HH, Marasa BS, Selimyan R, Egan JM, Smith SR, Fried SK, Gorospe M. miR-130 Suppresses Adipogenesis by Inhibiting Peroxisome Proliferator-Activated Receptor {gamma} Expression. Mol Cell Biol. 2011 Feb;31(4):626-638. Epub 2010 Dec 6. PubMed PMID: 21135128.

18: **Lee MJ\***, Gong DW, Burkey BF, Fried SK. [Pathways regulated by glucocorticoids in omental and subcutaneous human adipose tissues: a microarray study.](http://www.ncbi.nlm.nih.gov/pubmed/21189358) Am J Physiol Endocrinol Metab. 2011 Mar;300(3):E571-80. Epub 2010 Dec 28. \*correspondence

19: Carswell KA, **Lee MJ**, Fried SK. [Culture of isolated human adipocytes and isolated adipose tissue.](http://www.ncbi.nlm.nih.gov/pubmed/22057454) Methods Mol Biol. 2012;806:203-14. doi: 10.1007/978-1-61779-367-7\_14. PMID: 22057454.

20: **Lee MJ**\*, Wu Y, Fried SK\*. A Modified Protocol to Maximize Differentiation of Human Preadipocytes and Improve Metabolic Phenotypes. Obesity (Silver Spring). 2012 Dec;20(12):2334-40. doi: 10.1038/oby.2012.116. Epub May 4 PMID: 22627913. \*co-correspondence

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

22: Nimitphong H, Holick MF, Fried SK, **Lee MJ**. 25-hydroxyvitamin D3 and 1,25-dihydroxy vitamin D3 promote the differentiation of human subcutaneous preadipocytes. PLoS One. 2012;7(12):e52171. doi: 10.1371/journal.pone.0052171. Epub 2012 Dec 18. PMID: 23272223. \*correspondence

23:Karastergiou K, Fried SK, Xie H, **Lee MJ**, Divoux A, Rosencrantz MA, Chang RJ, Smith SR. Distinct developmental signatures of human abdominal and gluteal subcutaneous adipose tissue depots. J Clin Endocrinol Metab. 2013 Jan;98(1):362-71. doi: 10.1210/jc.2012-2953. Epub 2012 Nov 12. PMID: 23150689.

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.

31: Grahn TH, Kaur R, Yin J, Schweiger M, Sharma VM, **Lee MJ**, Ido Y, Smas CM, Zechner R, Lass A, Puri V. FSP27 interacts with ATGL to regulate lipolysis and insulin sensitivity in human adipocytes. J Biol Chem. 2014 Apr 25;289(17):12029-39. doi:10.1074/jbc. M113.539890. Epub 2014 Mar 13.

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.

33: **Lee MJ**, Fried SK. Reply to Armani et al. Can cortisol stimulate adipogenesis without the glucocorticoid receptor? Int J Obes (Lond). 2014 Dec;38(12):1578-9. doi: 10.1038/ijo.2014. PMID:24785104

34: Jang H, Bhasin S, Guarneri T, Serra C, Schneider M, **Lee MJ**, Guo W, Fried SK, Pencina K, Jasuja R. The Effects of A Single Developmentally-Entrained Pulse of Testosterone in Female Neonatal Mice On Reproductive and Metabolic Functions in Adult Life. Endocrinology. 2015 Jul 1:EN20151117. [Epub ahead of print] PMID: 26132920.

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.

38: **Lee MJ**\*, Yang RZ, Karastergiou K, Gong DW, Fried SK. Low expression of the glucocorticoid-induced leucine zipper may contribute to adipose inflammation and altered adipokine production in human obesity. J Lipid Res. 2016 Jul;57(7):1256-63. doi: 10.1194/jlr.M067728 PMID:27178044, \*first and corresponding author.

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.

43: [Jager M](https://www.ncbi.nlm.nih.gov/pubmed/?term=Jager%20M%5BAuthor%5D&cauthor=true&cauthor_uid=29799877), [**Lee MJ**](https://www.ncbi.nlm.nih.gov/pubmed/?term=Lee%20MJ%5BAuthor%5D&cauthor=true&cauthor_uid=29799877), [Li C](https://www.ncbi.nlm.nih.gov/pubmed/?term=Li%20C%5BAuthor%5D&cauthor=true&cauthor_uid=29799877), [Farmer SR](https://www.ncbi.nlm.nih.gov/pubmed/?term=Farmer%20SR%5BAuthor%5D&cauthor=true&cauthor_uid=29799877), [Fried SK](https://www.ncbi.nlm.nih.gov/pubmed/?term=Fried%20SK%5BAuthor%5D&cauthor=true&cauthor_uid=29799877), [Layne MD](https://www.ncbi.nlm.nih.gov/pubmed/?term=Layne%20MD%5BAuthor%5D&cauthor=true&cauthor_uid=29799877). Aortic carboxypeptidase-like protein enhances adipose tissue stromal progenitor differentiation into myofibroblasts and is upregulated in fibrotic white adipose tissue. [PLoS One.](https://www.ncbi.nlm.nih.gov/pubmed/29799877) 2018 May 25;13(5):e0197777. doi: 10.1371/journal.pone.0197777. PMID: 29799877.

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.

**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

**Conferences and Presentations**

**Invited Lectures**

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

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

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

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.

**Invited Oral Presentations**

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

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

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.

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.

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.

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

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, *Selected for Travel Award*, NIH, Bethesda, MD, 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.

**Meeting Abstracts Presented**

**Lee MJ** and Fried SK, “Feeding and insulin increase relative rates of leptin biosynthesis”. 52 (1); A84, Suppl. 63rd Scientific Sessions of the ADA, 2003.

Yang RZ, **Lee MJ**, Hu H, Duan L, Pollin T, Nicklas B, Goldberg AP, Shuldiner AR, Fried SK and Gong DW. “Serum Amyloid Protein A, an Adipocytokine in Humans. NIH workshop in Adipose Tissue Secretory Function and Its Role in Obesity-Associated Co-Morbidities”. December 11-13, 2003, Washington, DC. Poster Presentation

Yang RZ, McLenithan J, **Lee MJ**, Hu H, Hansen BC, Fried SK, Shuldiner AR, Gong DW. “Omentin Enhances Insulin-stimulated Glucose Transport in Adipocytes. NIH workshop in Adipose Tissue Secretory Function and Its Role in Obesity-Associated Co-Morbidities”, December 11-13, 2003, Washington, DC. Poster Presentation.

S. Mundt, Y. Wang, S. Sullivan, **MJ Lee**, S.K. Fried, A. Hermanowski-Vosatka. “Examination of human adipose depot differences in glucocorticoid metabolism: Depot difference in glucocorticoid metabolism in human omental and subcutaneous adipose tissue of obese subjects”. Endocrinology, 2003.

[Trujillo M](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=1COP6eKaocAneHmeoi3&field=AU&value=Trujillo%20M&ut=000185517000172&pos=1), [Sullivan S](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=1COP6eKaocAneHmeoi3&field=AU&value=Sullivan%20S&ut=000185517000172&pos=2), [**Lee MJ**](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=1COP6eKaocAneHmeoi3&field=AU&value=Lee%20MJ&ut=000185517000172&pos=3), [Greenberg A](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=1COP6eKaocAneHmeoi3&field=AU&value=Greenberg%20A&ut=000185517000172&pos=4), [Fried S](http://apps.isiknowledge.com/OneClickSearch.do?product=UA&search_mode=OneClickSearch&db_id=&SID=1COP6eKaocAneHmeoi3&field=AU&value=Fried%20S&ut=000185517000172&pos=5). “Role for mitogen-activated kinases (MAPK) in the upregulation of leptin production in obese human adipose tissue”. OBESITY RESEARCH, 11(A44-A44), Suppl. SEP 2003.

**Lee MJ** and Fried SK, Feeding and insulin increase leptin production in rat adipose tissue, FASEB summer conference, Snow Mass, CO, USA, 2003, Oral Presentation.

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