**Qing X. Li**

**College of Tropical Agriculture and Human Resources**

Department of Molecular Biosciences and Bioengineering

FTE Distribution: 20% I; 70% R; 10% E

**Education**

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| **Degree** | **University** | **Major** |
| Bachelors | Shandong Agriculture University, China | Agriculture |
| PhD | University of California at Davis | Agric. and Environ. Chemistry |

**Lifetime and Fellow Achievement Awards (peer nominated and endorsed national and International-important for those without accreditation that is peer nominated and endorsed, recognized)**

2021 American Chemical Society (ACS) Agrochemical division fellow

2020 University of Hawaii board of regents’ Medal for Excellence in Research.

2020 ACS International Award for Research in Agrochemicals.

2018 CTAHR Excellence in Research Award, UH-Manoa.

2017-present Overseas editor, *Journal of Pesticide Science*.

2017 ACS Award for Innovation in Chemistry of Agriculture.

2015-present Member, National Academy of Inventors.

2015-present Associate editor, *Journal of Agricultural and Food Chemistry*, American Chemical Society (ACS).

2014-present Editorial advisory board, the *Korean Journal of Pesticide Science*.

2014-present Editorial board, *Chinese Journal of Pesticide Science*.

2005-2021 Honorary Scientist and Advisor on Agricultural Science and Technology, Rural Development Administration, Republic of Korea.

**Professional Appointments**

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| **Title** | **Employer** | **Dates Employed** |
| Faculty member | Shandong Agricultural University, China | Feb 1982 – Dec 1985 |
| Research assistant | University of California at Davis | 1986-1990 |
| Post-doctoral fellow | University of California at Davis | Jan – June, 1991 |
| Post-doctoral fellow | University of California at Berkeley | July 1991 – June 1994 |
| Assistant specialist | University of California at Berkeley | July 1994 – Jan 1995 |
| Assistant professor | University of Hawaii at Manoa | 1995 – 1999 |
| Associate professor | University of Hawaii at Manoa | 1999 – 2002 |
| Visiting Professor | Seoul National University, Korea | 2003 |
| Visiting Professor | Kyoto University, Japan | 2013 |
| Professor | University of Hawaii at Manoa | 2002 – present |
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**Courses Taught**

Course Number and Title (credits)

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| Course Number | Title (credits) |
| MBBE402 | Principles of Biochemistry (3) |
| MBBE412 | Environmental Biochemistry (3) |
| MBBE687 | Advanced Laboratory Techniques (3) |
| MBBE499 | Directed research (variable credits) |
| MBBE699 | Directed research (variable credits) |
| MBBE700 | Directed research (variable credits) |
| MBBE800 | Directed research (variable credits) |

**Publications (reverse chronological order)** (Current total number of publications, 445; Current H index, 54)

Books

Guest editor, special issue “Green Plant Protection Innovation: Challenges and Perspectives” in *Engineering*, edited by Song, B.A.; Seiber, J.N.; Duke, S.O.; Li, Q.X. 2020.

Guest editor, Special issue “Fungicide Toxicology” in *Pesticide Biochemistry and Physiology*, edited by B.A. Song; Q.X. Li; W.G. Miao; W.J. Wu; Z. Chen. 2018.

Guest editor, Special issue “Herbicide Toxicology” in *Pesticide Biochemistry and Physiology*, edited by S. Qiang; Q.X. Li; W. Zhou; C. Preston. 2017.

Guest editor, Special Issue "Environmental Biotechnology: Current Advances, New Knowledge Gaps, and Emerging Issues" in *BioMed Research International*, edited by Hesham, A. E.-L.; Ralebitso-Senior, T.K.; Zhang, Y.; Li, Q.X. 2015.

Book Chapters

1. Baker, M.R.; Ching, T.; Tabb, D.L.; Li Q.X. 2018. Characterization of plant glycoproteins: Analysis of plant glycopeptide mass spectrometry data with plantGlycoMS, a Package in the R statistical computing environment. In: Pereira C. (Eds). *Plant Vacuolar Trafficking. Methods in Molecular Biology* *1789*: 205-222. Humana Press, New York, NY.
2. Li, Q.X.; Chang, C.L. 2016. Chapter 25. Basil (*Ocimum basilicum* L.) oils. In: Victor Preedy (Ed.), *Essential Oils in Food Preservation, Flavor and Safety*. Elsevier. p231-238.
3. Keum, Y.-S.; Kim, J.-H.; Li, Q.X. 2013. Biomarkers and Metabolomics, Evidence of Stress. In: “*Encyclopedia of Sustainability Science and Technology: Environmental Toxicology*” (Editor-in-chief: Robert A. Meyers; Section Editor: Edward A. Laws). Springer, New York. Pp 71-92. DOI: 10.1007/978-1-4419-0851-3 ISBN 978-0-387-89469-0
4. Iwaoka, W.T.; Li, Q.X. 2012. Toxicants. In: Food Chemistry: Principles and Applications. 3rd Edition. Y.H. Hui (Editor). Science Technology System, West Sacramento, California.
5. Iwaoka, W.T.; Li, Q.X. 2007. Toxicants. In: *Food Chemistry: Principles and Applications*. 2nd Edition. Y.H. Hui (Editor). Science Technology System, West Sacramento, California.
6. Hennessee, C.T.; Li, Q.X. 2010. Chapter 18: Micrococcineae: *Arthrobacter* and Relatives. In: *Handbook of Hydrocarbon and Lipid Microbiology.*  Kenneth N. Timmis, Ed-in-chief; T. McGenity, J.R. van der Meer, V. de Lorenzo (Eds.); *Volume 3: Microbes and Communities Utilizing Hydrocarbons, Oils and Lipids; Part 1: The Microbes, Terry McGenity (Section Editor)*. Springer. ISBN: 978-3-540-77584-3.
7. Qi, S; and Li, Q. X. 2010. *Proteomics in Pesticide Toxicology*. *In:* “*Hayes’ Handbook of Pesticide Toxicology*” (R. Krieger, *ed*.). 3rd ed. Academic Press, New York. Pp 603-626.
8. Keum, Y. S.; Kim, J.-H.; and Li, Q. X. 2010. *Metabolomics in Pesticide Toxicology*. *In:* “*Hayes’ Handbook of Pesticide Toxicology*” (R. Krieger, *ed*.). 3rd ed. Academic Press, New York. Pp 627-643.

Conference Proceedings

1. Song, B.A.; Seiber, J.N.; Duke, S.O.; Li, Q.X. 2020. Green Plant Protection Innovation: Challenges and Perspectives. *Engineering* 6: 483-484.
2. Zhang, C.; Lu, Y.; Feng, L.; Li, C.; Barako, T.; Liu, K.; Zhou, Q.; Cheng, S.; Pan, A.; Xue, L.; Zhang, S.; Lee, D.; Li, Q.; Li, L.; Yu, J.; Sisodia, S.; Ran, C. 2019. Proceedings of the Harvard-Shanghai conference on brain health - A special meeting for understanding and intervention of Alzheimer’s disease. *Journal of Advances in Health* 1(1): 1-8. https://doi.org/10.3724/SP.J.2640-8686.2019.0024
3. Kliks, M.; Wang, J.; Li, Q.X., Jun, S. 2011. Rapid, inexpensive biochemical analyses of honey to determine geographic origin. *WAS Journal*. November 2011 issue: 24026. Pp 24-26. http://digitalwasjournal.advancedpublishing.com/RIDE/viewer.aspx?id=4&pageId=1&lang=&lid=0

# Li, J., Li, Q.X., Li, Y.M.& Zhang, L.L. 2011. The early compost use in the history of China. 3rd International Society of Organic Agriculture Research Scientific Conference. 9/28-10/1/2011 in Gyeonggi Paldang, Korea. Conference Proceeding.

1. Kwon, Y.W.; Kim, D.S.; Li, Q.X. 2007. Environmentally sound production-system approach in rice weed management for economical and safety benefits. *In*: Proceedings of the International Workshop Weed Science and Agricultural Production Safety. Editor-in-chief: Sheng Qiang. Nanjing, China, 2007.
2. Kim, H.-J.; Gee, S.J.; Li, Q.X.; Hammock, B.D. 2007. Non-competitive fluorescent immunoassay for detection of pyrethroid biomarker 3-phenoxybenzoic acid in human urine with KinExATM 3000. In: *Rational Environmental Management of Agrochemicals – Risk Assessment, Monitoring, and Remedial Action*. Ivan R. Kennedy, Keith R. Solomon, Shirley J. Gee, Angus N. Crossan, Shuo Wang, Francisco Sanchez-Bayo (Editors). ACS Symposium Series 966. Washington DC.
3. Hong, S.-M.; Atkinson, S.; Hülck, K.; Li, Q.X. 2005. PCB concentrations and profiles in tissues of Stellar sea lions from Alaska and the Bering Sea. Eds.: Thomas R. Loughlin, Shannon Atkinson and Donald G. Calkins. Synopsis of Research on Steller Sea Lions: 2001-2005. Alaska SeaLife Center. p110-120.
4. Campbell, S.; Li, Q.X. 2004. Quick analysis of fipronil and its metabolites in gauze and soil samples. In: "Environmental Fate and Safety Management of Agrochemicals"; M. Akamatsu and T. Hoshino (Eds). Chapter 6, 62-69. ACS Symposium Series 899, Washington, DC. Total pages 340.
5. Oh, B.-Y.; Kim, J.H.; Li, Q.X. 2004. Monitoring and assessment of pesticide residues in major river, arable soil and agricultural produce in Korea. *Proceeding of the International Symposium on “Assessing and Management of the Agro-ecosystems for Clean and Friendly Future Environment”,* Seoul National University, Seoul, Korea. October 21-25, 2003.
6. Pellequer, J.-L.; Chen, S.W.; Feeney, A.; Zhao, B.; Kao, H.-I.; Karu, A.E.; Li, K.; Li, Q.X.; Roberts, V.A. 2000. Architecture of antibody binding sites for polynuclear aromatic hydrocarbons. In: *Nuclear Site Remediation – First Accomplishments of the Environmental Management Science Program*; P. Gary Eller and W.R. Heineman (Eds.). ACS Symposium Series 778, Washington, DC. pp398-416.
7. Li, Q.X.; Karu, A.E.; Li, K.; Thomas, S. 2000. Refinement of immunochemical methods for environmental analysis of polycyclic aromatic hydrocarbons. In: *Nuclear Site Remediation –First Accomplishments of the Environmental Management Science Program*; P. Gary Eller and W.R. Heineman (Eds.). ACS Symposium Series 778, Washington, DC. Pp 379-396.
8. Hammock, B.D.; Gee, S.J.; Harrison, R.O.; Jung, F.; Goodrow, M.H.; Li, Q.X.; Lucas, A.D.; Sundaram, S. 1990. Immunochemical technology in environmental analysis: addressing critical problems, In: *Immunochemical Methods for Environmental Analysis*; J. Van Emon and R. Mumma (Eds.). ACS Symposium Series 442, Washington, DC. pp112-139.
9. Seiber, J.N.; Li, Q.X.; Van Emon, J. 1990. Barriers to adopting immunoassays in pesticide analytical laboratory, In: *Immunochemical Methods for Environmental Analysis*; J. Van Emon and R. Mumma (Eds.). ACS Symposium Series 442, Washington, DC. pp156-167.

Refereed Journal Publications (reverse chronological order) (418 papers; H index: 54; citations: 12,000+)

1. Zhang, Z.; Tan, X.; Sun, X.; Wei, J.; Li, Q.X.; Wu, Z. 2021. Isoorientin alleviates Alzheimer’s disease related hallmarks via relieving the dysfunction of oral and gut microbiota in APP/PS1 model mice. *The Journal of Nutrition*. DOI: <https://doi.org/10.1093/jn/nxab328>
2. Lv, P.; Wang, Y.; Zheng, X.; Wu, X.; Li, Q.X.; Hua, R. 2022. Selective, stepwise photoreduction of chlorothalonil, dichlobenil and dichloro-and trichloro-isophthalonitriles enhanced by cyanidin in water. *Science of the Total Environment* *805*: 150157
3. Wang, W.; Gao, D.; Zheng, Q.; Zhao, X.; Na, R.; Wan, X.; Li, Q.X. 2021. Interactions of isoorientin and its semi-synthetic analogs with human serum albumin. *Bioorganic Chemistry 116*: 105319.
4. Xu, B.; Wang, K.; Vasylieva, N.; Zhou, H.; Xue, X.; Wang, B.; Li, Q.X.; Hammock, B.D.; Xu, T. 2021. Development of a nanobody-based ELISA for the detection of the insecticides cyantraniliprole and chlorantraniliprole in soil and the vegetable bok choy. *Analytical and Bioanalytical Chemistry* 413(9):2503-2511. DOI: 10.1007/s00216-021-03205-x.
5. Yu, P.-F.; Li, Y.-W.; Zou, L.-J.; Liu, B.-L.; Xiang, L.; Zhao, H.-M.; Li, H.; Cai, Q.-Y.; Hou, X.-W.; Mo, C.-H.; Wong, M.H.; Li, Q.X. 2021. Variety-selective rhizospheric activation, uptake, and subcellular distribution of perfluorooctanesulfonate (PFOS) in lettuce (*Lactuca sativa* L.). *Environmental Science and Technology* 55, 13, 8730–8741. DOI: 10.1021/acs.est.1c01175
6. Zhao, H.; Li, Q.; Jin, X.; Li, D.; Zhu, Z.; Li, Q.X. 2021. Chiral enantiomers of the plant growth regulator paclobutrazol selectively affect community structure and diversity of soil microorganisms. *Science of the Total Environment* *797*: 148942.
7. Sun, B.; Tan, D.; Pan, D.; Baker, M.R.; Liang, Z.; Wang, Z.; Lei, J.; Liu, S.; Hu, C.Y. Li, Q.X. Dihydromyricetin imbues anti-adipogenic effects on 3T3-L1 cells via direct interactions with 78-kDa glucose regulated protein. *The Journal of Nutrition* *151*(7): 1717-1725 DOI: 10.1093/jn/nxab057
8. Baek, S.J.; Hammock, B.; Hwang, I.K.; Li, Q.X.; Moustaid-Moussa, N.; Park, Y.; Safe, S.; Suh, N.; Yi, S.S.; Zeldin, D.C.; Zhong, Q.; Bradbury, J.A.; Edin, M.L.; Graves, J.P.; Jung, H.Y.; Jung, Y.H.; Kim, M.-B.; Kim, W.; Lee, J.; Li, H.; Moon, J.S.; Yoo, I.D.; Yue, Y.; Lee, J.-Y.; Han, H.J. 2021. Natural products in the prevention of metabolic diseases: Lessons learned from the 20th frontier scientists workshop. *Nutrients* *13*(6):1881. DOI: 10.3390/nu13061881
9. Zhu, M.; Ou, X.; Tang, J.; Shi, T.; Ma, X.; Wang, Y.; Wu, X.; Li, Q.X.; Hua, R. 2021. Uptake, distribution and translocation of imidacloprid-loaded fluorescence double hollow shell mesoporous silica nanoparticles and metabolism of its released imidacloprid in pakchoi. *Science of the Total Environment* *787*: 14578. DOI: 10.1016/j.scitotenv.2021.147578
10. Wang, X.; Li, Q.X.; Heidel, M.; Wu, Z.; Yoshimoto, A.; Leong, G.; Pan, D.; Ako, H. 2021 Comparative evaluation of industrial hemp varieties: field experiments and phytoremediation in Hawaii. *Industrial Crops and Products* *170*: 113683. DOI: 10.1016/j.indcrop.2021.113683
11. Qu, R.-Y.; He, B.; Yang, J.-F.; Lin, H.-Y.; Yang, W.-C.; Wu, Q.-Y.; Li , Q.X.; Yang, G.-F. 2021. Where are the new herbicides? *Pest Management Science* 77(6): 2620-2625. DOI: 10.1002/ps.6285
12. Fang, L.; Xu, L.; Zhang, N.; Shi, Q.; Shi, T.; Ma, X.; Wu, X.; Li, Q.X.; Hua, R. 2021. Enantioselective degradation of the organophosphorus insecticide isocarbophos in *Cupriavidus nantongensis* X1T: characteristics, enantioselective regulation, degradation pathways, and toxicity assessment. *Journal of Hazardous Materials* 417: 126024.
13. Cho, I.K.; Lee, S.E.;·Chang, C.L.; Li, Q.X. 2021. Dietary vitamin B3 deficiency suppresses the formation of ocular depression and up-regulation of optomotor-related blind gene-1 in Mediterranean fruit fly larvae. *Analytical Science Advances* 2: 416–426. DOI: 10.1002/ansa.202100017
14. Nzila, A.; Musa, M.M.; Sankara, S.; Al-Momani, M.; Xiang, L.; Q.X. Li. 2021. Degradation of benzo[a]pyrene by halophilic bacterial strain *Staphylococcus haemoliticus* strain 10SBZ1A. PLoS ONE 0247723. DOI: 10.1371/journal.pone.0247723
15. Wu, S.; Ma, F.; He, J.; Li, Q.X.; Hammock, B.D.; Tian, J.; Xu, T. 2021. Fusion expression of nanobodies specific for the insecticide fipronil on magnetosomes in *Magnetospirillum gryphiswaldense* MSR-1. *Journal of Nanobiotechnology* 19(1): 1-9. DOI: 10.1186/s12951-021-00773-z
16. Cao, J.; Wang, W.; Zhao, Z.; Liu, X.; Li, Q.X. 2021. Genome, metabolic pathways and characteristics of cometabolism of dibenzothiophene and the biodiesel byproduct glycerol in *Paraburkholderia* sp. C3. *Bioresource Technology 326*: 124699. DOI: 10.1016/j.biortech.2021.124699
17. Huang, B.; Jiao, Y.; Zhu, Y.; Ning, Z.; Ye, Z.; Li, Q.X.; Hu, C.Y.; Wang, C. 2021. Mdfi promotes C2C12 cell differentiation and positively modulates fast-to-slow-twitch muscle fibers transformation. *Frontiers in Cell and Developmental Biology, section Signaling* 9: 605875. DOI: 10.3389/fcell.2021.605875
18. Yuan, M.; Zhao, H.; Huang, Q.; Liu, X.; Zhou, Y.; Diao, X.; Li, Q.X. 2021. Comparison of three palm tree peroxidases expressed by Escherichia coli: uniqueness of African oil palm peroxidase. *Protein Expression and Purification* *179*: 105806. DOI: 10.1016/j.pep.2020.105806
19. Tan, X.; MD; Liang, Z.; Zhi; Y.; Lang Yi; Bai, S.; Forest, K.H.; Nichols, R.A.; Dong, Y.; Li, Q.X. 2021. Isoorientin, a GSK-3β inhibitor, rescues synaptic dysfunction, spatial memory deficits and attenuates pathological progression in APP/PS1 model mice. *Behavioural Brain Research*. 398: 112968. DOI: 10.1016/j.bbr.2020.112968
20. Chen, M.; Liu, S.; Yuan, X.; Li, Q.X.; Wang, F.; Xin, F.; Wen, B. 2021. Methane production and characteristics of the microbial community in the co-digestion of potato pulp and dairy manure amended with biochar. *Renewable Energy* 163: 357-367. DOI: 10.1016/j.renene.2020.09.006
21. Wang, X.; Murison, J.; Wang, J.; Leong, G.; Wu, Z.; Li, Q.X. 2021 Dermal exposure assessment to trinexapac-ethyl: a case study of workers in golf course in Hawaii, USA. *Environmental Science and Pollution Research* *28*(1):1072-1076. DOI: 10.1007/s11356-020-10566-w. PMID: 32829436
22. Fang, L.; Xu, Y.; Xu, L.; Shi, T.; Ma, X.; Wu, X.; Li, Q.X.; Hua, R. 2021. Enhanced biodegradation of insecticide chlorpyrifos in industrial wastewater via immobilized Cupriavidus nantongensis X1T. *Science of the Total Environment* *755*: 142505. DOI: 10.1016/j.scitotenv.2020.142505
23. Xu, L.; Xie, Y.; Na, R.; Li, Q.X. 2020. Recent advances in the identification and application of sex pheromones of gall midges (Diptera: Cecidomyiidae). *Pest Management Science*. 76(12): 3905-3910. DOI: 10.1002/ps.5949.
24. Wang, X.; Murison, J.; Wang, J.; Leong, G.; Wu, Z.; Li, Q.X. 2020 Dermal exposure assessment to trinexapac-ethyl: a case study of workers in golf course in Hawaii, USA. *Environmental Science and Pollution Research* *28*(1):1072-1076. DOI: 10.1007/s11356-020-10566-w. PMID: 32829436
25. Chen, J.; Sun, R.; Pan, C.; Mai, B.; Li, Q.X. 2020. Antibiotics and food safety in aquaculture. *Journal of Agricultural and Food Chemistry* *68*(43): 11908-11919. DOI: 10.1021/acs.jafc.0c03996
26. Xiang, L.; Chen, X.-T.; Yu,P.-F.; Li, X.-H.; Zhao, H.-M.; Feng, N.-X.; Li, Y.-W.; Li, H.; Cai, Q.-Y.; Mo, C.-H.; Li, Q.X. 2020. Oxalic acid in root exudates enhances accumulation of perfluorooctanoic acid in lettuce. *Environmental Science and Technology* *54*(20): 13046-13055. DOI: 10.1021/acs.est.0c04124
27. Li, Y.; Zhao, Y.; Tan, X.; Liu, J.; Zhi, Y.; Yi, L.; Bai, S.; Du, Q.; Li, Q.X.; Dong, Y. 2020. Isoorientin inhibits inflammation in macrophages and endotoxemia mice by regulating glycogen synthase kinase 3β. *Mediators of Inflammation* 2020: 8704146. https://doi.org/10.1155/2020/8704146
28. Chen, J.; Li, Q.X.; Song, B. 2020. Chemical nematicides: Recent research progress and outlook. *Journal of Agricultural and Food Chemistry* 68:12175-12188. DOI: 10.1021/acs.jafc.0c02871
29. He, J.; Ma, S.; Wu, S.; Xu, J.; Tian, J.; Li, J.; Gee, S.; Hammock, B.; Li, Q.X.; Xu, T. 2020. Construction of immunomagnetic particles with high stability in stringent conditions by site-directed immobilization of multivalent nanobodies onto bacterial magnetic particles for the rapid environmental detection of tetrabromobisphenol-A. *Analytical Chemistry* *92* (1): 1114-1121.
30. Xu, C.; Fan, Y.; Zhang, X.; Kong, W.; Miao, W.; Li, Q.X. 2020. DNA damage in liver cells of the tilapia fish *Oreochromis mossambicus* larva induced by the insecticide cyantraniliprole at sublethal doses during chronic exposure. *Chemosphere* 238: 124586. DOI: 10.1016/j.chemosphere.2019.124586
31. Sun, R.-X.; Pan, C.; Li, Q.X.; Peng, F.; Mai, B.-X. 2020. Occurrence and congener profiles of polybrominated diphenyl ethers in green mussels (*Perna viridis*) collected from northern South China Sea and the associated potential health risk. *Science of the Total Environment 698*: 134276. DOI: 10.1016/j.scitotenv.2019.134276.
32. Liu, L.; Li, Y.; Yoza, B.A.; Hao, K.; Li, Q.X.; Li, Y.; Wang, Q.; Guo, S.; Chen, C. 2020. A char-clay composite catalyst derived from spent bleaching earth for efficient ozonation of recalcitrants in water. *Science of the Total Environment* *699*: 134395. DOI: 10.1016/j.scitotenv.2019.134395
33. Park, C.E.; Park, Y.-J.; Kim, M.-C.; Park, M.-K.; Jung, Y.G.; Choi, S.-D.; Jo, Y.J.; Kang, G.-U.; Kim, M.-J.; Li, Q.X.; Yoza, B.A.; Kim, K.-H.; Park, H.C.; Shin, J.H. 2020. The first complete mitochondrial genome sequence of the Korean endemic catfish *Silurus microdorsalis* (Actinopteri, Siluriformes, Siluridae). *Mitochondrial DNA Part B*: Resources 5: 131-132. DOI: 10.1080/23802359.2019.1698336
34. Tan, G.; Zhao, Y.; Wang, M.; Chen, X.; Wang, B.; Li, Q.X. 2020. Ultrasensitive quantitation of imidacloprid in vegetables by colloidal gold and time-resolved fluorescent nanobead traced lateral flow immunoassays. *Food Chemistry* *311*: 126055. DOI: 10.1016/j.foodchem.2019.126055
35. Jin, P.; Wang, H.; Tan, Z.; Xuan, Z.; Dahar, G.Y.; Li, Q.X.; Miao, W.; Liu, W. 2020. Antifungal mechanisms of bacillomycin D from *Bacillus velezensis* HN-2 against *Colletotrichum gloeosporioides* Penz. 2020. *Pesticide Biochemistry and Physiology* *163*: 102–107. DOI: 10.1016/j.pestbp.2019.11.004
36. Xiang, L.; Li, Y.-W.; Yu, P.-F.; Feng, N.-X.; Zhao, H.-M.; Li, H.; Cai, Q.-Y.; Mo, C.-M.; Li, Q.X. 2020. Food safety concerns: Crop breeding as a potential strategy to address issues associated with the recently lowered reference doses for perfluorooctanoic acid and perfluorooctane sulfonate. *Journal of Agricultural and Food Chemistry* *68*(1): 48-58. DOI: 10.1021/acs.jafc.9b04625.
37. Hu, J.; Li, Y.; Nan, S.; Yoza, B.A.; Li, Y.; Zhan, Y.; Wang, Q.; Li, Q.X.; Guo, S.; Chen, C. 2020. Catalytic ozonation of nitrobenzene by manganese-based Y zeolites. *Front. Chem*. *8*: 80. DOI: 10.3389/fchem.2020.00080
38. Li, P.; Dsikowitzky, L.; Diao, X.; Yang, F.; Li, Q.X.; Schwarzbauer, J. 2020. Unusual tin organics, DDX and PAHs as potential molecular indicators for dockyard work in an industrialized port area in China. *Chemosphere* *243*:125284. DOI: 10.1016/j.chemosphere.2019.125284.
39. Fang, L.; Qin, H.; Shi, T.; Wu, X.; Li, Q.X.; Hua, R. 2020. Ortho and para oxydehalogenation of dihalophenols catalyzed by the monooxygenase TcpA and NAD(P)H:FAD reductase Fre. *Journal of Hazardous Materials* *388*: 121787. DOI: 10.1016/j.jhazmat.2019.121787
40. Liu, J.; Lu, S.; Feng, J.; Li, C.; Wang, W.; Pei, Y.; Ding, S.; Zhang, M.; Li, H.; Na, R.; and Li, Q.X. 2020. Enantioselective synthesis of antifungal C18 polyacetylenes. *Journal of Agricultural and Food Chemistry* *68*: 2116-2123. DOI: 10.1021/acs.jafc.9b07967
41. Wang, L.; Wu, X.; Zhao, Z.; Fan, F.; Zhu, M.; Wang, Y.; Na, R.; Li, Q.X. 2020. Interactions between imidacloprid and thiamethoxam and dissolved organic matter characterized by two-dimensional correlation spectroscopy analysis, molecular modeling and density functional theory calculations. *Journal of Agricultural and Food Chemistry* *68*: 2329-2339. DOI: 10.1021/acs.jafc.9b06857
42. Liang, J.; Chen, C.; Yoza, B.A.; Li, Q.X.; Wang, Q.; Ming, J.; Yu, J. Li, J.; Ke, M. 2020. Rapid granulation using cesium sulfate and polymers for refractory wastewater treatment in up-flow anaerobic sludge blanket reactor. *Bioresource Technology* *305*:123084. DOI: 10.1016/j.biortech.2020.123084.
43. Sun, R.; Luo, X.; Shao, H.; Tang, L.; Zheng, X.; Li, Q.X.; Mai, B. 2020. Bioaccumulation of short-chain chlorinated paraffins in a model terrestrial bird, domestic chicken (*Gallus domesticus*): comparison to aquatic fish. *Journal of Hazardous Materials* *396*: 122590. DOI: 10.1016/j.jhazmat.2020.122590
44. Xiang, L.; Li, Y.-W.; Wang, Z.-R.; Liu, B.-L.; Zhao, H.-M.; Li, H.; Cai, Q.-Y.; Mo, C.-H.; Li, Q.X. 2020. Bioaccumulation and phytotoxicity and human health risk from microcystin-LR under various treatments: A pot study. *Toxins* 12: 523. DOI: 10.3390/toxins12080523
45. Hu, D.; Chen, W.; Li, X.; Yue, T.; Feng, Z.; Li, C.; Bu, X.; Li, Q.X.; Hu, C.Y.; Li, L. 2020. Ultraviolet irradiation increased the concentration of vitamin D2 and decreased the concentration of ergosterol in shiitake mushroom (*Lentinus edodes*) and oyster mushroom (*Pleurotus ostreatus*) powder in ethanol suspension. *ACS Omega* *5*(13): 7361-7368. DOI: 10.1021/acsomega.9b04321
46. Zhang, B.; Ni, Y.; Liu, J.; Yan, T.; Zhu, X.; Li, Q.X.; Hua, R.; Pan, D.; Wu, X. 2020. Bead-immobilized *Pseudomonas stutzeri* Y2 prolongs functions to degrade s-triazine herbicides in industrial wastewater and maize fields. *Science of the Total Environment* *731*: 139183. DOI: 10.1016/j.scitotenv.2020.139183
47. Du, P.-P.; Huang, Y.-H.; Lü, H.; Xiang, L.; Li, Y.-W.; Li, H.; Mo, C.-H.; Cai, Q.-Y.; Li, Q.X. 2020. Rice root exudates enhance desorption and bioavailability of phthalic acid esters (PAEs) in soil associating with cultivar variation in PAE accumulation. *Environmental Research 186*: 109611. DOI: 10.1016/j.envres.2020.109611
48. Ortega Ramirez, C.A.; Kwan, A.; Li, Q.X. 2020. Rhamnolipids induced by glycerol enhance dibenzothiophene biodegradation in *Burkholderia* sp. C3. *Engineering* *6*: 533-540. DOI: 10.1016/j.eng.2020.01.006
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158. Alcantara-Licudine, J.P.; Li, Q.X.; Kawate, M.K. 1996. Supercritical fluid extraction of naled, methyl eugenol and cuelure in soil. *Journal of Chromatographic Science* *34*(5): 238-244.
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160. Li, Q.X.; Casida, J.E. 1995. Affinity probes for the GABA-gated chloride channel: selection of 5*e*-*tert*-butyl-2e-[4-(substituted-ethynyl)phenyl]-1,3-dithianes and optimization of linker moiety. *Bioorganic and Medicinal Chemistry 3*(12):1667-1674. PMID: 8770391.
161. Li, Q.X.; Casida, J.E. 1995. Affinity probes for the GABA-gated chloride channel: 5*e*-*tert*-butyl-2e-[4-(substituted-ethynyl)phenyl]-1,3-dithianes with photoactivatable, fluorescent, biotin, agarose and protein substituents. *Bioorganic and Medicinal Chemistry 3*(12):1675-1684. PMID: 8770392.
162. Li, Q.X.; Casida, J.E. 1994. Structure-activity studies leading to potent chloride channel blockers: 5*e*-*tert*-butyl-2-[4-(substituted-ethynyl)phenyl]-1,3-dithianes. *Bioorganic and Medicinal Chemistry* *2*(12):1423-1434. PMID: 7788306.
163. Krämer, P.M.; Li, Q.X.; Hammock, B.D. 1994. Integration of LC with immunoassay: an approach of combining the potential of both methods. *Journal of AOAC International, 77*(5):1275-1287. PMID: 7950427.
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166. Li, Q.X.; Hammock, B.D.; Seiber, J.N. 1991. Development of an enzyme-linked immunosorbent assay for the herbicide bentazon. *Journal of Agricultural and Food Chemistry 39*(8):1537-1544.
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171. Jung, F.; Gee, S.J.; Harrison, R.O.; Goodrow, M.H.; Karu, A.E.; Braun, A.L.; Li, Q.X.; Hammock, B.D. 1989. Use of immunochemical technique for the analysis of pesticides. *Pesticide Science 26*:303-317.
172. Hu, Q.Y.; Zhu, J.; Li, Q.X. 1988. Pesticide dissipation with computer modeling. *Agro- environmental Protection 7*(2):16-8.
173. Hu, Q.Y.; Zhang, Z.C.; Li, Q.X. 1987. Dissipation study of fenvalerate on cabbage. *Agro- environmental Protection 6*(2):1-4.
174. Hu, Q.Y.; Li, Q.X. 1986. The investigation and study on the pollution of organochlorine insecticides in the fields of Shandong Province. *Journal of Shandong Agricultural University 17*(2):67-73.

Extension Publications (reverse chronological order)

1. Seiber, J.N.; Baker, M.R.; Li, Q.X. 2021. Protecting and enhancing scare water resources through chemistry. Journal of Agricultural and Food Chemistry 69(32): 9199-9201. DOI: 10.1021/acs.jafc.1c03540
2. Song, B.A.; Seiber, J.N.; Duke, S.O.; Li, Q.X. 2020. Green Plant Protection Innovation: Challenges and Perspectives. Engineering 6: 483-484.
3. Zorn, H.; Li, Q.X. 2017. Trends in Food Enzymology. *Journal of Agricultural and Food Chemistry* 65 (1): 4–5. DOI: 10.1021/acs.jafc.6b05483. PMID: 27976889.
4. Hesham, A. E.-L.; Ralebitso-Senior, T.K.; Zhang, Y.; Li, Q.X. 2015. Editorial "Environmental Biotechnology: Current Advances, New Knowledge Gaps, and Emerging Issues." *BioMed Research International*. Article ID 814529. [http://dx.DOI.org/10.1155/2015/814529](http://dx.doi.org/10.1155/2015/814529)
5. Montgomery, M.T.; Coffin, R.B.; Boyd, T.J.; Hamdan, L.J.; Smith, J.P.; Plummer, R.E.; Walker, S.E.; Dittel, A.; Masutani, S.M.; Li, Q.X.; Osburn, C.L. 2009. Bacterial production and contaminant mineralization in sediments of the Ala Wai Canal, Oahu, Hawaii. *Naval Research Laboratory*. NRL/MR/6114-09-9212. http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA507110
6. Campbell, S.; Chong, P.; Corpus, T.; Cripps, M.; Fox, P.; Galvez, L.; Li, Q.X.; Martin, C.; and Sciulli, R. Training manual titled “All Hazards Field Sampling and Categorization – A training manual”, 2006. DVD video. Copyright 2006© State of Hawaii Department of Health and the University of Hawaii.

# Technical Reports of Pesticide residues for Registration (submitted 50 reports to support registration of 20 pesticides on 26 crops) (reverse chronological order)

1. Leong, G.; Li, Q.X. 2013. Magnitude of residues of NAA and its metabolites in or on pomegranate. IR-4 headquarters, Rutgers Univ., NJ (4 trials).
2. Leong, G.; Li, Q.X. 2013. Magnitude of residues of fluazifop-p-butyl and its metabolites in or on coffee. IR-4 headquarters, Rutgers Univ., NJ (1 trial).
3. Leong, G.; Li, Q.X. 2012. Magnitude of residues of spinosad and its metabolites in or on Coffee. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
4. Yanagihara, K.; Leong, G.; Li, Q.X. 2012. Magnitude of residues of fluazifop-p-butyl and its metabolites in or on coffee. IR-4 headquarters, Rutgers Univ., NJ. (2 trials)
5. Yanagihara, K.; Yanagihara, J.; Li, Q.X. 2011. Magnitude of residues of oxyfluorfen and its metabolites in or on ti. IR-4 headquarters, Rutgers Univ., NJ (2 trials).
6. Yanagihara, K.; Yanagihara, J.; Li, Q.X. 2011. Magnitude of residues of oxyfluorfen and its metabolites in or on coffee. IR-4 headquarters, Rutgers Univ., NJ (5 trials).
7. Yanagihara, K.; Yanagihara, J.; Li, Q.X. 2010. Magnitude of residues of 1,3-dichloropropene and its metabolites in or on pineapple. IR-4 headquarters, Rutgers Univ., NJ (6 trials).
8. Leong, G.; Li, Q.X. 2010. Magnitude of residues of fludioxonil and its metabolites in or on pineapple. IR-4 headquarters, Rutgers Univ., NJ (4 trials).
9. Leong, G.; Li, Q.X. 2010. Magnitude of residues of NAA and its metabolites in or on Rambutan. IR-4 headquarters, Rutgers Univ., NJ (2 trials).
10. Leong, G.; Li, Q.X. 2010. Magnitude of residues of NAA and its metabolites in or on Avocado. IR-4 headquarters, Rutgers Univ., NJ (5 trials).
11. Yanagihara, K.; Yanagihara, J.; Li, Q.X. 2009. Magnitude of residues of mancozeb and its metabolites in or on blueberry. IR-4 headquarters, Rutgers Univ., NJ (5 trials).
12. Yanagihara, K.; Yanagihara, J.; Li, Q.X. 2009. Magnitude of residues of mancozeb and its metabolites in or on lychee. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
13. Yanagihara, K.; Yanagihara, J.; Li, Q.X. 2009. Magnitude of residues of mancozeb and its metabolites in or on guava. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
14. Yanagihara, J.; Yanagihara, K.; Li, Q.X. 2009. Magnitude of residues of metaldehyde and its metabolites in or on taro. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
15. Leong, G.; Li, Q.X. 2008. Magnitude of residues of imidacloprid and its metabolites in or on Papaya. IR-4 headquarters, Rutgers Univ., NJ (4 trials).
16. Leong, G.; Yanagihara, K.; Li, Q.X. 2007. Magnitude of residues of triflumizole and its metabolites in or on pineapple. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
17. Leong, G.; Yanagihara, K.; Li, Q.X. 2007. Magnitude of residues of triflumizole and its metabolites in or on papaya. IR-4 headquarters, Rutgers Univ., NJ (4 trials).
18. Yanagihara, J.; Yanagihara, K.; Li, Q.X. 2007. Magnitude of residues of burofezin and its metabolites in or on coffee. IR-4 headquarters, Rutgers Univ., NJ (5 trials).
19. Yanagihara, J.; Leong, G.; Yanagihara, K.; Li, Q.X. 2006. Magnitude of residues of spinosad and its metabolites in or on almonds. IR-4 headquarters, Rutgers Univ., NJ (6 trials).
20. Yanagihara, J.; Li, Q.X. 2006. Magnitude of residues of spinosad and its metabolites in or on pineapple. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
21. Leong, G.; Yanagihara, J.; Li, Q.X. 2004. Magnitude of residues of mefenoxam and its metabolites in or on papaya. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
22. Leong, G.; Yanagihara, J.; Li, Q.X. 2004. Magnitude of residues of mefenoxam and its metabolites in or on kimi fruit. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
23. Yee, A.; Li, Q.X. 2004. Magnitude of residues of imidacloprid and its metabolites in or on cranberry. IR-4 headquarters, Rutgers Univ., NJ (9 trials).
24. Yee, A.; Li, Q.X. 2003. Magnitude of residues of imidacloprid and its metabolites in or on coffee. IR-4 headquarters, Rutgers Univ., NJ (2 trials).
25. Yee, A.; Li, Q.X. 2003. Magnitude of residues of imidacloprid and its metabolites in or on pineapple. IR-4 headquarters, Rutgers Univ., NJ (2 trials).
26. Yee, A.; Li, Q.X. 2003. Magnitude of residues of abamectin and its metabolites in or on pomegranate. IR-4 headquarters, Rutgers Univ., NJ (3 trials).
27. Leong, G.; Li, Q.X. 2002. Magnitude of residues of mefenoxam and its metabolites in or on papaya. IR-4 headquarters, Rutgers Univ., NJ (8 trials).
28. Yanagihara, K.; Li, Q.X. 2002. Magnitude of residues of MCPA and its metabolites in or on pea. IR-4 Headquarters, Rutgers Univ., NJ. (5 trials).
29. Leong, G.; Li, Q.X. 2002. Magnitude of residues of imidacloprid and its metabolites in or on avocado. IR-4 Headquarters, Rutgers Univ., NJ. (5 trials).
30. Yanagihara, J.; Li, Q.X. 2002. Magnitude of residues of spinosad and its metabolites in or on banana. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
31. Yanagihara, J.; Li, Q.X. 2002. Magnitude of residues of imidacloprid and its metabolites in or on banana. IR-4 Headquarters, Rutgers Univ., NJ. (5 trials).
32. Leong, G.; Li, Q.X. 2002. Magnitude of residues of dimethomorph and its metabolites in or on taro. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
33. Yanagihara, J.; Li, Q.X. 2002. Magnitude of residues of spinosad and its metabolites in or on nectarine. IR-4 Headquarters, Rutgers Univ., NJ. (8 trials).
34. Yanagihara, K.; Li, Q.X. 2001. Magnitude of residues of imidacloprid and its metabolites in or on coffee. IR-4 Headquarters, Rutgers Univ., NJ. (5 trials).
35. Leong, G.; Li, Q.X. 2001. Magnitude of residues of propiconazole and its metabolites in or on pineapple. IR-4 Headquarters, Rutgers Univ., NJ. (4 trials).
36. Yanagihara, J.; Li, Q.X. 2001. Magnitude of residues of spinosad and its metabolites in or on mint. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
37. Leong, G.; Li, Q.X. 2000. Magnitude of residues of imidacloprid and its metabolites in or on peach. IR-4 Headquarters, Rutgers Univ., NJ. (4 trials).
38. Leong, G.; Li, Q.X. 2000. Magnitude of residues of imidacloprid and its metabolites in or on plum. IR-4 Headquarters, Rutgers Univ., NJ. (8 trials).
39. Fukui, H.; Yanagihara, J.; Li, Q.X. 2000. Magnitude of residues of clofentezine and its metabolites in or on persimmon. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
40. Yanagihara, J.; Fukui, H.; Inatsuka, C.; Li, Q.X. 2000. Magnitude of residues of spinosad and its metabolites in or on raspberry. IR-4 Headquarters, Rutgers Univ., NJ. (2 trials).
41. Yanagihara, J.; Fukui, H.; Li, Q.X. 2000. Magnitude of residues of spinosad and its metabolites in or on grape. IR-4 Headquarters, Rutgers Univ., NJ. (7 trials).
42. Yanagihara, J.; Fukui, H.; Inatsuka, C.; Li, Q.X. 2000. Magnitude of residues of spinosad and its metabolites in or on coffee. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
43. Yanagihara, J.; Li, Q.X. 2000. Magnitude of residues of spinosad and its metabolites in or on banana. IR-4 Headquarters, Rutgers Univ., NJ. (2 trials).
44. Yanagihara, J.; Fukui, H.; Li, Q.X. 1999. Magnitude of residues of spinosad and its metabolites in or on artichoke. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
45. Yanagihara, K.; Li, Q.X. 1998. Magnitude of residues of oxyfluorfen and its metabolites in or on pejibaye. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
46. Yanagihara, K.; Li, Q.X. 1998. Magnitude of residues of oxyfluorfen and its metabolites in or on banana. IR-4 Headquarters, Rutgers Univ., NJ. (5 trials).
47. Yanagihara, J.; Li, Q.X. 1998. Magnitude of residues of chlorothalonil and its metabolites in or on persimmon. IR-4 Headquarters, Rutgers Univ., NJ. (1 trial).
48. Leong, G.; Li, Q.X. 1997. Magnitude of residues of dimethoate and its metabolites in or on taro. IR-4 Headquarters, Rutgers Univ., NJ. (3 trials).
49. Leong, G.; Li, Q.X. 1997. Magnitude of residues of chlorpyrifos and its metabolites in or on coffee. IR-4 Headquarters, Rutgers Univ., NJ. (1 trial).
50. Yanagihara, K.; Li, Q.X. 1997. Magnitude of residues of diuron and its metabolites in or on currant. IR-4 Headquarters, Rutgers Univ., NJ. (1 trial).

Extension Workshops, Conferences, Demonstrations, Seminars, etc., Organized and Conducted

1. Organizer and principal investigator, “Biotechnology Workshop” under State of Hawaii Millennium Workforce Development Initiative and NSF-MarBEC program, 2000, 2001 and 2004.
2. Organizer and principal investigator, “All Hazard Field Sampling and Categorization” training for the Fire Department Hazmat teams of Oahu (2003), Kauai (2004), Maui (2005 and 2008) Counties, Hawaii.
3. Provide Proteomics services to Hawaii researchers since 2011 to present.
4. Proteomics Core Web: http://manoa.hawaii.edu/jabsom/proteomics

Creative Works (i.e., Extension Videos, Websites, Blogs, Creative Designs and Exhibitions, etc.)

N/A

Patents and Technology Disclosures (reverse chronological order)

1. Li, Q.X.; Hu, Q-Y. Anti-obesity effects of 78-kDa glucose regulated protein inhibitors. US provisional patent. 2020.
2. Li, Q.X.; Liang, Z. Inhibitors of soluble epoxide hydrolase and p38 kinase as Alzheimer's therapeutics. The US provisional patent, 2019.
3. Li, Q.X.; Wen, B.; Fu, B.; Baker, M.; Cao, Z. Recombinant and engineered windmill palm tree (*Trachycarpus fortunei*) and royal palm tree (*Roystonea regia*) peroxidases. The US provisional patent, 2018.
4. Li, Q.X.; Zhang, Z.; Wu, Z. Bioactive flavonoids in maize for food supplements, anti-aging, anti-dementia and anti-inflammation. The US provisional patent, 2018.
5. Li, Q.X. Bioinsecticidal compositions containing monoterpenes and methods of use Thereof. PCT, 2018.
6. Li, Q.X.; Liang, Z. GSK-3β inhibitors and use thereof in methods of treatment. PCT, 2018.
7. Li, Q.X.; Wen, B.; Fu, B.; Baker, M.; Cao, Z. Recombinant and engineered windmill palm tree (*Trachycarpus fortunei*) and royal palm tree (*Roystonea regia*) Peroxidases. The US provisional patent, 2017
8. Li, Q.X.; Liang, Z. Discovery of potent, selective, substrate-competitive and bioavailable glycogen synthase kinase-3β inhibitors for Alzheimer’s disease: design, synthesis and biological evaluation of novel C-glycosylflavones. The US provisional patent, 2017.
9. Li, Q.X.; Liang, Z. Novel GSK3 inhibitors for prevention and treatment of neurodegenerative and neuropsychiatric disorders and metabolic Diseases. The US provisional patent, 2017.
10. Li, Q.X.; Fan, Y.; Peng, H. Monoterpenoids are insecticidal to insects. The US provisional patent, 2017.
11. Li, Q.X.; Wen, B. Expression and characteristics of windmill palm tree peroxidase (*Trachycarpus fortunei*) in *Pichia pastoris*. Provisional patent, 2016.
12. Li, Q.X.; Liang, Z. Novel GSK3 inhibitors for prevention and treatment of neurodegenerative and neuropsychiatric disorders and metabolic diseases. The US provisional patent, 2016.
13. Li, Q.X.; Fan, Y.; Peng, H. Monoterpenoids are insecticidal to agricultural, storage and household insect pests. The US provisional patent, 2016.
14. Li, Q.X.; Liang, Z. C-Glycosylflavones and extracts from corn silks for prevention and treatment of Alzheimer's disease. Provisional patent, 2015.
15. Chang, C.L.; Li, Q.X.; Cho, I.K.; Vargas, R. Discovery of “Attract and Kill” Properties of Basil Oil in the Field. ARS Invention Disclosure, 2012
16. Rima, J.; Aouezova, L.; Li, Q.X. 2011. Generation of free radicals, analytical methods, bacterial disinfections, and oxidative destruction of organic chemicals using zero valent iron and other metals. US patent 8,048,317
17. Rima, J.; Li, Q.X.; Mroueh, M.; Assaf, M. Rapid generation of pulse flash free radicals to kill human cancer cells, recycle human urine, and mineralize organic chemicals in wastewater by using metallic cations and hydrides. Provision patent, 2007.
18. Chang, C.L.; Cho, I.K.; Li, Q.X. Human consumable essential oil is highly toxic to pest tephritid fruit flies. Provision patent, 2007.
19. Rima, J.; Aouezova, L.; Li, Q.X. Encapsulation technology for continuous, efficient and in-situ harvest of natural aromas. Provision patent, 2005.
20. Shelver, W.; Kim, H.-J.; Keum, Y.S.; Li, Q.X. “Biological Materials License Agreement #1327-001 with Environlogix, Ltd” for thiamethoxam hybridoma cell lines 2Th2E1E2A11 and 2Th3D1F2D4. 2004.
21. Wu, L.; Li, Q.X. Programmed-temperature retention index database for identification and analysis of polychlorinated biphenyls and other organochlorines. Licensing disclosure, 2002.
22. Karu, A.E.; Li, Q.X. Recombinant Fab antibody specific for coplanar polychlorinated biphenyls, and haptens for PCB congeners with no, one, and two ortho chlorines. Licensing disclosure, 2001.
23. Li, Q.X.; Li, K. Antibodies to imidacloprid. Provisional patent, 2000.

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

2021 Chair, AGRO division, American Chemical Society (ACS)

2021- Award committee chair, AGRO division, ACS.

2020 Program chair, AGRO division,ACS.

2019 Vice chair, AGRO division, ACS.

2017-2019 Executive Committee member, AGRO division, ACS.

2007-2015 Advisory Committee on Pesticides, State of Hawaii Department of Agriculture.

**Graduate Students**

|  |  |  |
| --- | --- | --- |
| Category | Current Number of Students | Number Graduated (Career) |
| *Chair* of Master’s Committees | 9 (8 MBBE MS students) | 7 (6 MBBE MS graduated) |
| *Chair* of PhD Committees | 25 (8 MBBE PhD students) | 19 (7 MBBE PhD graduated) |
| Member of Master’s Committees | 28 | 24 |
| Member of PhD Committees | 29 | 21 |

**Grant Support**

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| --- | --- | --- |
| HI DOA 69201 (Q. Li, PI) | 11/2020 – 12/2021 |  |
| State of Hawaii Dept of Agriculture | $50,000 |  |

*Planning Pesticide Drift Monitoring Study at Schools in Hawaii.*

The goal is to plan and prepare a pesticide drift monitoring study.

Overlap: None; Role: PI

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| --- | --- | --- |
| DRI 78 (Q.X. Li, co-PI) | 3/2020-3/2023 |  |
| Deputyship for Res & Innov., Ministry of Education, Saudi Arabia | $143,567 |  |

*Study on the degradation of benzo[a]pyrene by thermophilic, acidophilic and alkaliphilic microbes isolated from the Kingdom of Saudi Arabia.*

The goal is to identify enzymes and understand catabolic pathways of benzo[a]pyrene in bacteria.

Overlap: None; Role: co-PI

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| --- | --- | --- |
| 18ADVC-90801 (QX Li, PI) | 7/2018 – 12/2020 |  |
| Hawaii Community Foundation | $70,000 |  |

*Structural optimization and pharmacokinetics evaluation of glycogen synthase kinase-3β inhibitors as Alzheimer drug candidates.*

The goal is to improve potency and elucidate pharmacokinetics of GSK3β inhibitors for Alzheimer’s disease drug candidates.

Overlap: None; Role: PI

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| --- | --- | --- |
| 2018-67012-28082 (QX Li, PI) | 3/2018 – 3/2020 |  |
| USDA NIFA | $165,000 |  |

Development of *Brachypodium distachyon* as a model system for studies of complex N-glycosylation in regulation of root growth and development.

This is Margaret Baker’s post-doc fellowship.

Overlap: None; Role: PI

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| --- | --- | --- |
| HEMPSEED17 OC-17-06 (QX Li, PI) | 7/2017 – 12/2018 |  |
| Hawaii State Department of Agriculture | $75,000 |  |

*Selecting and developing industrial hemp cultivars for high performance in the Hawaiian environment.*

The goal of this project is to deliver high quality industrial hemp seed to enable subsequent hemp growers participating in the State's pilot program to succeed in developing this new industry for Hawaii.

Overlap: None; Role: PI

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| --- | --- | --- |
| Grants4Targets 2017-01-018 (QX Li, PI) | 7/2017 – 12/2019 |  |
| Bayer AG. | € 30,000 |  |

*A (+)-monoterpenoid is a potent insecticide selective for thrips.*

The goal is to validate the selective toxicity of (+)-isomer and (-)-isomer to different insect species, and to determine the toxicity of the more potent (+)-isomer to target and non-target species.

Overlap: None; Role: PI

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| --- | --- | --- |
| 1 R01 HD084633-01A1 (L. Garmire, PD) | 7/2016-7/2022 |  |
| NIH NICHD | $3,824,397 (~$150,000 for Li lab) |  |

*An Integrative Omics Approach to Identify Biomarkers Related to Preeclampsia and Breast Cancer Risks in Offspring.*

The goal is to identify biomarkers related to preeclampsia and breast cancer risks in offspring.

Overlap: None; Role: Co-PI

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| --- | --- | --- |
| HAW5032R (QX Li, PI) | 10/2016-9/2018 |  |
| USDA Hatch and Smith Lever | $70,000 |  |

*Flavones from corn silks for Alzheimer's disease prevention and treatment.*

The goal is to study mechanisms of action of isoorientin to GSK3β as the primary therapeutic target and identify isoorientin target proteins in neuroblastoma cells.

Overlap: None; Role: PI

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| --- | --- | --- |
| 13-ENV1628-04 (Q.X. Li, PI) | 5/2015-12/2017 |  |
| Saudi Arabia National Science, Technology & Innovation Plan | $37,000 |  |

*Isolation and characterization of microorganisms that biodegrade high molecular weight polycyclic aromatic hydrocarbon pyrene.*

The goal is to identify enzymes and understand catabolic pathways of pyrene in bacteria.

Overlap: None; Role: PI

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| --- | --- | --- |
| HI DOA 201407 (H. Ako, PI) | 7/2014 – 7/2016 |  |
| State of Hawaii Dept of Agriculture | $79,860 |  |

*Industrial hemp, phytoremediation, biofuel, and other Purposes.*

The goal is to assess agronomic traits of industrial hemps in Hawaii, which may be used for hempcrete, biofuel and phytoremediation.

Overlap: None; Role: Co-PI

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| --- | --- | --- |
| PJ00947203 (QX Li, PI) | 9/2013-12/2015 |  |
| Korean Rural Development Administration | $150,000 |  |

*Studies on biological activity of individual γ-oryzanol from agro-food.*

The goal is to determine anti-cancer activity of γ-oryzanol on human breast cancer MCF-7 cells and understand molecular mechanisms of the effects, protein network and responses to γ-oryzanol.

Overlap: None; Role: PI

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| --- | --- | --- |
| N00014-12-1-0496 (Richard Rocheleau, PD) | 3/2012-9/2019 |  |
| ONR | $308,202 |  |

*Asia Pacific Research Initiative for Sustainable Energy Systems (APRISES).*

Task: Biocontamination of fuels. The goal is to investigate biological growth in fuel-water interfaces using the standardized fuel blends and specific microbes.

Overlap: None; Role: Subcontract PI

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| --- | --- | --- |
| CDCP NIOSH 2U54OH007550 (M. Schenker, PD) | 9/2011-9/2016 |  |
| NIOSH via the Western Center for Ag. Health and Safety | $273,012 |  |

*The Western Center for Agricultural Health and Safety*

Task: Rapid assays to assess human exposure to pesticides. The goal is to evaluate novel rapid assays to assess human exposure to pesticides.

Overlap: None; Role: Subcontract PI

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| --- | --- | --- |
| 5 G12 RR003061-30 (M. Berry, PD) | 9/2011-7/2017 |  |
| NIH NIMHHD RCMI | $2,100,000 (approximately for proteomic core) |  |

*Bioscience Research Infrastructure Development for Grant Enhancement and Success (BRIDGES).*

The goal is to provide state-of-the-art proteomics platforms, expertise, and training to facilitate the conduct of biomedical research at the University of Hawaii. We ensure that these services are readily available in a timely fashion as needed by investigators at UH and its affiliates.

Overlap: None; Role: Proteomics core PI

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| --- | --- | --- |
| N00014-11-1-0391 (Richard Rocheleau, PD) | 1/2011-9/2017 |  |
| ONR | $75,000 |  |

*Hawaii Energy and Environmental Technologies (HEET)*

Task: Blended fuel biodesulfurization. The goal is to develop a field detection method for sulfate reducing bacteria in diesel and work toward the potential determination of a sulfate metabolism inhibitor.

Overlap: None; Role: Subcontract PI

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| N00014-10-1-0310 (Richard Rocheleau, PD) | 12/2009-6/2017 |  |
| ONR | $50,000 |  |

*Hawaii Energy and Environmental Technologies (HEET)*

Task: Blended fuel biodesulfurization. The goal is to develop a field detection method for sulfate reducing bacteria in biodiesel and work toward the potential determination of a sulfate metabolism inhibitor.

Overlap: None; Role: Subcontract PI

**Presentations at Conferences (between 2015 and 2021. Reverse chronological order)**

1. Li, QX. Bacteria: A diverse source of catalysts. International Conference on Mountainous Agriculture and Green Plant Protection. September 29, 2021. Guiyang, China. Virtual speech. Invited.
2. Li, Q.X. Scientific article writing and communications. China-ASEAN faculty development traning on modern agricultural technology under the background of “The Belt & Road initiative”. September 22-26, 2021. Guiyang, China. Invited.
3. Li, QX. Pesticide discovery: Perspective. Keynote. The 3rd National Pesticide Industry Innovation Exchange Conference & the 19th Annual Meeting of Pesticide Professional Committee of China Chemical Society. July 20-22, 2021, Wuhan, China. Virtual speech. Invited.
4. Li, QX. Flavonoids: diverse functions and values as nutraceuticals, drug leads and wastewater treatment catalysts. The 260th National Meeting of the American Chemical Society (ACS). April 5-30, 2021. Virtual. Invited.
5. Li, Q.X. One health: from ecological health to human health. Department of Environmental Toxicology, University of California at Davis. May 21, 2020. Invited.
6. Li, Q.X. Agrochemicals: A cornerstone of agriculture. The 260th National Meeting of the American Chemical Society (ACS). August 17-20, 2020. San Francisco. Invited.
7. Cao, J.; Li, Q.X. Effect of different carbon sources on Dibenzothiophene degradation and Rhamnolipids production by *Burkholderia* sp. C3. The General Assembly 2020 of the European Geosciences Union, Vienna, Austria. May 3-8, 2020.
8. Liang, Z.; Zhang, B.; Xu, M.; Christophe Morisseau, C.; Hwang, S.H.; Hammock, B.D.; Li, Q.X. Dually targeting human soluble epoxide hydrolase and p38 kinase to prevent neuroinflammation for the treatment of Alzheimer’s disease. Alzheimer’s Association International Conference. Virtual meeting, July 27 – Friday, July 31, 2020
9. Xu, M.; Li, Q.X. Anti-neuroinflammatory effects of the GSK-3β inhibitor TFGF-18 in LPS-activated SIM-A9 microglial cells. The 260th National Meeting of the American Chemical Society (ACS). August 17-20, 2020. San Francisco.
10. Dong, Y.; Zhang, L.; Li, Q.X. Structural optimization of isoorientin as glycogen synthase kinase-3β inhibitors for potential Alzheimer’s disease relief. The 260th National Meeting of the American Chemical Society (ACS). August 17-20, 2020. San Francisco.
11. Hu, C.Y.; Sun, B.; Tan, D.; Pan, D.; Li, Q.X. Dihydromyricetin targets 78-kDa glucose regulated protein in 3T3-L1 cells for anti-obesity effects. The 260th National Meeting of the American Chemical Society (ACS). August 17-20, 2020. San Francisco.
12. Xiang, L.; Li, Y.-W.; Mo, C.-H.; Li, Q.X. Microcystins show high ecological and human health risks in vegetable fields. The 260th National Meeting of the American Chemical Society (ACS). August 17-20, 2020. San Francisco.
13. Tan, X.; Liang, Z.; Zhi, Y.; Yi, L.; Bai, S.; Dong, Y.; Li, Q.X. Isoorientin attenuates neuroinflammation and cognitive impairment in APPswe / PS1dE9 mice. The 17th International Congress of Immunology, October 19-23, 2019. Beijing, China
14. Li, Q.X. Crop protection and identification of insecticide action target. The 2nd International Conference on Green Plant Protection Innovation. Guiyang, China. October 22-23, 2019. Invited.
15. Li, Q.X. Chemistry tools for invasive pest control. Invasive Pest Conference. Imiloa Astronomy Center, Hilo, Hawaii, USA. August 22, 2019. Invited.
16. Li, Q.X. Abiotic and biotic transformation. 2019 International workshop on the recycled use of food waste. January 11-13, 2019, Suzhou, China. Invited.
17. Li, A.S.; Iijima, A.; Chen, Y.; Li, Q.X. Applications of monoterpenes for tephritid fruit fly control and putative mode of action relevant to ligand-gated ion channels. The 14th International IUPAC Conference of Crop Protection, Ghent, Belgium on May 19 - 24, 2019.
18. Li, Q.X. Target identification of bioactive molecules. 2019 International Symposium and Annual Meeting of the Korean Society of Applied Biological Chemistry. Busan, Korea. June 20-22, 2019. Invited.
19. Li, Q.X. Target identification and mechanisms of insecticide action. The 2nd International Insect Pest Management Conference. Guiyang, China. July 27, 2019. Invited.
20. Liang, Z.; Hwang, S.H.; Morisseau, C.; Hammock, B.D.; Li, Q.X. A dual-inhibitor of soluble epoxide hydrolase and p38 kinase alleviating tau hyperphosphorylation and amyloid neurotoxicity for potential treatment of neuroinflammation in Alzheimer’s disease. The American Society for Pharmacology and Experimental Therapeutics (ASPET) Annual Meeting at Experimental Biology in April 21-15, 2018, San Diego, California, USA.
21. Liang, Z.; Li, Q.X. Harnessing the π-cation interaction in rational drug design: Discovery of potent and isoform-specific GSK-3β inhibitors for Alzheimer’s disease. Alzheimer's Association International Conference, July 22-26, 2018, Chicago, USA
22. Li, Q.X. c-Glycosylflavonoids as glycogen synthase kinase-3β inhibitors alleviate tau hyperphosphorylation and amyloid neurotoxicity. 2018 Harvard-Shanghai Conference on Brain Health - a special meeting for understanding and intervention of Alzheimer’s disease. October 12-13, 2018 at the Harvard Center in Shanghai, China. Invited.
23. Li, Q.X. From nutraceutical to pharmaceutical: Alzheimer’s prevention and treatment relevance. International Conference on Quality and Safety of Agricultural Products & the 2nd Innovation Symposium on China -Australia Food and Agricultural Science and Technology. October 20- 23, 2018 in Nanjing, China. Invited.
24. Li, Q.X. Synergy between agricultural proteomics and biomedical proteomics. The first Kyoto Biomolecular mass spectrometry society symposium. February 7, 2017. Kyoto, Japan. Invited.
25. Ortega, C.A.R.; Kwan, A.; Li, Q.X. Mechanisms of Glycerol Enhanced Catabolism of Dibenzothiophene by *Burkholderia* sp. C3. ASM Microbe 2017 conference. June 1-5, 2017. New Orleans.
26. Cho, I.K.; Lee, S.-N.; Chang, C.L.; Li, Q.X. Dietary vitamin B3 deficiency causes abnormal eye development in Mediterranean fruit fly larvae. 2017 International Symposium and annual Meeting of the Korean Society for Applied Biological Chemistry. June 15-17, 2017. Busan, Korea.
27. Cho, I.K.; Doello, S.; Jang, H.H.; Kim, J.B.; Li, Q.X. Protein profile in response to 24-mCAF in cultured human lung cancer cells A549. 2017 annual meeting of the Korean Society of Environmental Agriculture. July 6-7, 2017. Pyeongchang, Korea.
28. Liang, Z.; Li, Q.X. Computer-aided drug discovery of selective GSK3β inhibitors inspired by natural products for Alzheimer’s disease. 2017 American Society of Pharmacognosy Meeting. July 29 –August 2, 2017. Portland, Oregon.
29. Li, Q.X. Applications of proteomics, metabolomics, and immunoassays in agricultural and environmental chemistry. The 254th ACS National Meeting. August 20-24, 2017. Washington, DC. Invited.
30. Li, Q.X. and Chu, S. Determination of Adduct Formation between Human Serum Albumin and Organophosphates Using MALDI-TOF/TOF and LC-Q/TOF. The 254th ACS National Meeting. August 20-24, 2017. Washington, DC. Invited.
31. Liang, Z.; Li, Q.X. Selective GSK3β inhibitors reduce tau and amyloid burdens: promising drug candidates help fight Alzheimer’s. 18th International Conference on Alzheimer's Drug Discovery. September 11 – 12, 2017. Jersey City, NJ.
32. Li, Q.X. Recent advances of pesticide research: discovery and biotransformation. International Symposium on the Korean Society of Pesticide Science. November 2-3, 2017. Buan, Korea. Invited.
33. Clukey, K.E.; Lepczyk, C.A.; Balazs, G.; Work, T.; Li, Q. Lynch, J.M. Assessment of plastic ingestion and persistent organic pollutants in sea turtles across the Pacific Ocean. 36th Annual Symposium on Sea Turtle Biology and Conservation, 29 February – 4 March 2016. Lima, Perú.
34. Wu, L.; Duan, X.; Liu, C.; Zhang, G.; Li, Q.X. Dual- and single-retention behaviors of solutes in linear programmed temperature gas chromatography. 252nd ACS National Meeting, August 21-25, 2016. Philadelphia, PA.
35. Liang, Z.; Li, Q.X. Glycosylflavone as glycogen synthase kinase-3β inhibitor alleviates tau hyperphosphorylation and amyloid neurotoxicity. 252nd ACS National Meeting, August 21-25, 2016. Philadelphia, PA.
36. Liang, Z.; Zhang, B.; Su, W.W.; Williams, P.G.; Li, Q.X. Glycosylflavone as glycogen synthase kinase-3β inhibitor alleviates tau hyperphosphorylation and amyloid neurotoxicity. Hawaii 2016 Neuroscience Symposium. August 20, 2016. Honolulu, HI.
37. Clukey, K.E.; Lepczyk, C.A.; Balazs, G.; Work, T.; Li, Q. Lynch, J.M. Assessment of plastic ingestion and persistent organic pollutant concentrations in sea turtles from the pelagic realm of the Pacific Ocean. Society of Environmental Toxicology and Chemistry World Congress, November6-10, 2016. Orlando, Florida.
38. Li, Q.X. Terpenoids and recent advances in tephritid fruit fly control. The international conference on ecological pesticides for industry, agricultural and hygiene (EPIAH2016). November 2-4, 2016. Shanghai, China. Invited.
39. Li, Q.X. Scientific Writing and Communications. The 11th National Youth Academic Seminar of Technological Innovation in Plants Protection. December 8, 2016. Nanjing, China. Invited.
40. Li, Q.X.; Baker, M.R. and Sakharov, I.Yu. Structural characterization of windmill palm (*Trachycarpus fortunei*) peroxidase with mass spectrometry. International conference biocatalysis – 2015: fundamentals and applications. June 21-25, 2015. Moscow, Russia.
41. Xu, T.; Wang, J.; Shelver, W.L. and Qing X. Li. Development of phage-based immunoassays for 2,2’,4,4’-tetrabromodiphenyl ether (BDE-47) in fish fillet. The 4th international conference on food processing & technology, August 10-12, 2015. London, UK.
42. Wang, J.; Huang, B.; Li, Q.X. Organochlorine pesticides in follicular fluid of women undergoing assisted reproductive technologies. 250th ACS National Meeting. August 16-20, 2015. Boston, Massachusetts. Invited.
43. Wu, L.; Li, Q.X. Recent advances in gas chromatography retention model and retention mechanism. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.
44. Xu, T.; Wang, J.; Bever, C.; Gee, S.J.; Li, Q.X.; Hammock, B.D. Environmental and human exposure monitoring for tetrabromobisphenol A by immunoassays based on a variable domain of heavy chain antibody. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.
45. Gao, S.; Li, Q.X.; Li, J. *Stenotrophomonas* sp. L60 degrades Cry1Ab. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.
46. Liang, Z.; Li, Q.X. Neuroprotective compounds from corn silks alleviate amyloid cytotoxicity in SH-SY5Y cells. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.
47. Jia, R.; Li, Q.X.; Guo, A.; Guo, Y. The advantage of proteomics study in microorganism involved plant-plant interaction complex. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.
48. Jia, R.; Li, Q.X.; Wei, Q.; Guo, A.; Guo, Y. Identification and Classification of Rhizobia by Matrix-Assisted Laser Desorption/Ionization Time-Of-Flight Mass Spectrometry. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.
49. Zhao, H.; Li, Q.X. Expression and site-directed mutagenesis of the highly stable royal palm peroxidase in *pichia pastoris*. Pacifichem 2015, December 15-20, 2015. Honolulu, Hawaii, USA.