

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

<u>Degree</u>	<u>University</u>	<u>Major</u>
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)**

2023	American Chemical Society (ACS) fellow
2021	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.
2017-2021	Overseas editor, <i>Journal of Pesticide Science</i> .
2017	ACS Award for Innovation in Chemistry of Agriculture.
2015-present	Member, National Academy of Inventors.
2015-present	Associate editor, <i>Journal of Agricultural and Food Chemistry</i> , American Chemical Society (ACS).
2014-2021	Editorial advisory board, the <i>Korean Journal of Pesticide Science</i> .
2014-present	Editorial board, <i>Chinese Journal of Pesticide Science</i> .
2005-2021	Honorary Scientist and Advisor on Agricultural Science and Technology, Rural Development Administration, Republic of Korea.

Professional Appointments

<u>Title</u>	<u>Employer</u>	<u>Dates Employed</u>
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

Courses Taught

Course Number and Title (credits)

Course Number	Title (credits)
MBBE402	Principles of Biochemistry (3)
MBBE402L	Biochemistry Laboratory (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 peer-reviewed publications, 483; Current H index, 66; i10 332)

Books (4 special issues)

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 (9 peer-reviewed book chapters)

1. Sun, B.; Xu, J.; Liu, S.; Li, Q.X. 2023. Characterization of small molecule-protein interaction using SPR method. In: *Protein-Protein Interactions: Methods and Protocols, Methods in Molecular Biology*. Vol. 2690. S.M. Sukhtar (Ed). Chapter 15. Pp 149-159. Humana Press, New York, NY
2. 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.
3. 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.
4. 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
5. 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.
6. 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.
7. Hennessee, C.T.; Li, Q.X. 2010. Chapter 18: Micrococccineae: *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.
8. 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.
9. 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 (13 peer-reviewed 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>
4. 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.
5. 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.
6. 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 KinExA™ 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.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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.
12. 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.

13. 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) (468 peer-reviewed journal papers; H index: 66; i10: 332; citations: 17000)

1. Jiao, W.; Shen, T.; Wang, L.; Zhu, L.; Li, Q.X.; Wang, C.; Chen, H.; Hua, R.; Wu, X. 2022. Source and route of pyrrolizidine alkaloid contamination in tea samples. *Journal of Visualized Experiments* 187: e64375. DOI: 10.3791/64375
2. Pan, D.; Yang, Y.; Nong, A.; Tang, Z.; Li, Q.X. 2022. GRP78 activity moderation as a therapeutic treatment against obesity. *International Journal of Environmental Research and Public Health* 19: 15965. DOI: 10.3390/ijerph192315965
3. Liu, X.; Wen, S.; You, W.; Wang, X.; Shi, T.; Wu, X.; Li, Q.X.; Bian, Q.; Lv, P.; Hua, R. 2022. Efficient total synthesis and herbicidal activity of 3-acyltetramic acids: Endogenous abscisic acid synthesis regulators. *J. Agric. Food Chem.* 70(42): 13510–13517. DOI: 10.1021/acs.jafc.2c04382
4. Qian, W.; Zhang, Y.; Long, Y.; Yang, W.; Hu, R.; Li, J.; Leng, Y.; Liu, X.; Li, Q.X.; Wan, X.; Wei, X. 2022. Probiotic *Lactobacillus brevis* CLB3 prevents colon carcinogenesis by reducing amino acid transport and IL-17A levels and repressing the IL-6/AKT/p-STAT3 signaling pathway in tumor mice. *Food Quality and Safety* 6: 1-4. DOI: 10.1093/fqsafe/fyac038
5. Qin, C.; Lu, Y.-X.; Borch, T.; Yang, L.-L.; Li, Y.-W.; Zhao, H.-M.; Hu, X.; Gao, Y.; Xiang, L.; Mo, C.-H.; Li, Q.X. 2022. Interactions between extracellular DNA and perfluoroalkyl acids (PFAAs) decrease bioavailability of PFASs into pakchoi (*Brassica chinensis* L.). *Journal of Agricultural and Food Chemistry* 70(46): 14622–14632. DOI: 10.1021/acs.jafc.2c04597
6. Qiao, Y.-T.; Lu, Y.-X.; Yu, P.-F.; Feng, N.-X.; Li, Y.-W.; Zhao, H.-M.; Cai, Q.-Y.; Xiang, L.; Mo, C.-H.; Li, Q.X. 2023. A novel method based on solid phase extraction and liquid chromatography -tandem mass spectrometry warrants occurrence of trace xanthates in water. *Chemosphere* 310: 136770. DOI: 10.1016/j.chemosphere.2022.136770
7. Liu, X.; Li, F.; Gao, R.-J.; Wang, X.X.; Cheng, J.L.; Liu, B.L.; Xiang, L.; Li, Y.-W.; Cai, Q.-Y.; Zhao, H.-M.; Mo, C.-H.; Li, Q.X. 2023. Revealing microcystin-LR ecotoxicity to earthworm (*Eisenia fetida*) at the intestinal cell level. *Chemosphere* 311: 137046. DOI: 10.1016/j.chemosphere.2022.137046
8. Li, C.; Wu, Y.; Yin, X.; Gong, Z.; Xing, H.; Miao, J.; Wang, S.; Liu, J.; Na, R.; Li, Q.X. 2023. Modular synthesis of the pheromone (2S,7S)-2,7-nonanediyl dibutyrate and its racemate and their field efficacy to control orange wheat blossom midge, *Sitodiplosis mosellana* (Géhin) (Diptera: Cecidomyiidae). *Pest Management Science* 79 (1): 97-104. DOI 10.1002/ps.7177.
9. Yao, Y.; Li, Q.X. 2023. Efficient, fast and robust degradation of chlortetracycline in wastewater catalyzed by recombinant *Arthromyces ramosus* peroxidase. *Science of the Total Environment* 858: 159872. DOI: 10.1016/j.scitotenv.2022.159872
10. Huang, Y.-H.; Yang, Y.-J.; Wu, X.; Zhu, C.-L. Lü, H.; Zhao, H.-M.; Xiang, L.; Li, H.; Mo, C.-H.; Li, Y.-W.; Cai, Q.-Y.; Li, Q.X. 2023. Adaptation of bacterial community in maize rhizosphere for enhancing dissipation of phthalic acid esters in agricultural soil. *Journal of Hazardous Materials* 444: 130292. DOI: 10.1016/j.jhazmat.2022.130292
11. Feng, N.-X.; Zhang, F.; Xie, Y.; Bin, H.; Xiang, L.; Li, Y.-W.; Zhang, F.; Huang, Y.; Zhao, H.-M.; Cai, Q.-Y.; Mo, C.-H.; Li, Q.X. 2023. Genome mining-guided activation of two silenced tandem genes in *Raoultella ornithinolytica* XF201 for complete biodegradation of phthalate acid esters. *Science of the Total Environment* 864: 161013. DOI: 10.1016/j.scitotenv.2022.161013
12. Tang, J.; Yao, J.; Pan, D.; Huang, J.; Wang, J.; Li, Q.X.; Dong, F.; Wu, X. 2023. Characterization and catalytic mechanism of a direct demethylsulfide hydrolase for catabolism

- of the methylthiol-s-triazine prometryn. *Journal of Hazardous Materials* 446: 130708. DOI: 10.1016/j.jhazmat.2022.130708
13. Nzila, A.; Musa, M.M.; Afuecheta, E.; Al-Thukair, A.; Sankaran, S.; Xiang, L.; Li, Q.X. 2023. Benzo[A]pyrene biodegradation by multiple and individual mesophilic bacteria under axenic conditions and in soil samples. *International Journal of Environmental Research and Public Health* 20: 1855. DOI: 10.3390/ijerph20031855
 14. He, Q.; Wang, M.; Zhao, Y.; Tan, G.; Zhang, M.; Feng, R.; Chen, Y.; Wang, B.; Li, Q.X. 2023. Isolation of atrazine nanobodies enhanced by depletion of anti-carrier protein phages and performance comparison between the nanobody and monoclonal antibody derived from the same immunogen. *Analytica Chimica Acta* 1244: 340848. DOI: 10.1016/j.aca.2023.340848
 15. Zhang, G.; Fang, L.; Cheng, Z.; Shi, T.; Ma, X.; Li, Q.X.; Hua, R. 2023. Highly efficient adsorption characteristics and mechanism of nutshell biochars for aromatic organophosphorus insecticides. *Agronomy* 13: 543. DOI: 10.3390/agronomy13020543
 16. Pereira, G.M.; Jun, S.; Li, Q.X.; Wall, M.M.; Ho, K.K.H.Y. 2023. Formation and physical characterization of soy protein-isoflavone dispersions and emulsions. *LWT – Food Science and Technology* 176: 114513. DOI: 10.1016/j.lwt.2023.114513
 17. Guo, J.-J.; Li, F.; Xiao, H.-C.; Liu, B.-L.; Feng, L.-N.; Yu, P.-F.; Meng, C.; Zhao, H.-M.; Feng, N.-X.; Li, Y.-W.; Cai, Q.-Y.; Xiang, L.; Mo, C.-H.; Li, Q.X. 2023. Polyethylene and polypropylene microplastics reduce chemisorption of cadmium in soil and increase its bioaccessibility. *Journal of Hazardous Materials* 449: 130994. DOI: 10.1016/j.jhazmat.2023.130994
 18. Yang, J.-F.; Wang, F.; Wang, M.-Y.; Wang, D.; Hao, G.-F.; Li, Q.X.; Yang, G.-F. 2023. CIPDB: A biological structure databank for studying cation and π interactions. *Drug Discovery Today* 28(5): 103546
 19. Jiao, W.; Wang, L.; Zhu, L.; Shen, T.; Shi, T.; Zhang, P.; Wang, C.; Chen, H.; Wu, X.; Yang, T.; Li, Q.X.; Hua, R. 2023. Pyrrolizidine-producing weeds in tea gardens as an indicator of alkaloids in tea. *Food Additives and Contaminants: Part B* 16(1):50-57. DOI: 10.1080/19393210.2022.2145507
 20. Pan, D.; Tang, Z.; Zhang, Z.; Li, Q.X. 2023. Action mechanisms and pharmacokinetics of dihydromyricetin against obesity. *ACS Food Science & Technology* 3: 539–545. DOI: DOI: 10.1021/acfoodscitech.2c00145
 21. Hammock, B.D.; Li, Q.X. 2023. John Edward Casida. 22 December 1929 – 30 June 2018. *Biographical Memoir of Fellows of the Royal Society* 74: 63–86. Doi: 10.1098/rsbm.2022.0016
 22. Zhao, S.; ang, X.; Xu, Q.; Li, H.; Su Y.; Xu, Q.; Li, Q.X.; Xia, Y.; Shen, R. 2023. Association of maternal metals exposure, metabolites and birth outcomes in newborns: A prospective cohort study. *Environment International* 179: 108183. DOI: 10.1016/j.envint.2023.108183
 23. Jiao, W.; Zhu, L.; Shen, T.; Wang, L.; Li, Q.X.; Wang, C.; Wu, X.; Chen, H.; Hua, R. 2023. Simultaneous determination of 15 pyrrolizidine alkaloids and their N-oxides in weeds, soil, fresh tea leaves, and tea: Exploring the pollution source of pyrrolizidine alkaloids in tea. *Food Chemistry* 434: 137305. DOI: 10.1016/j.foodchem.2023.137305
 24. Quan, Z.; Zhao, Z.; Liu, Z.; Wang, W.; Yao, S.; Liu, H.; Lin, X.; Li, Q.X.; Yan, H.; Liu, X. 2023. Biodegradation of polystyrene microplastics by superworms (larvae of *Zophobas atratus*): Gut microbiota transition and putative metabolic ways. *Chemosphere* 343: 140246. DOI: 10.1016/j.chemosphere.2023.140246
 25. Jiao, W.; Zhang, P.; Cui, C.; Yan, M.; Li, Q.X.; Tang, Y.; Zhang, N.; Wang, X.; Hou, R.; Hua, R. 2023. Metabolic responses of tea (*Camellia sinensis* L.) to the insecticide thiamethoxam. *Pest Management Science* 79(10): 3570-3580. DOI: 10.1002/ps.7534
 26. Zhao, L.; Li, C.; Zhang, M.; Li, H.; Ding, S.; Zhao, X.; Yang, L.; Liu, J.; Li, Q.X.; Na, R. 2023. Design, synthesis, and antifungal activity of polyacetylenic alcohol derivatives and

- stereoisomers against phytopathogenic fungi. *Journal of Agricultural and Food Chemistry*. 71(25):9753-9761. DOI: 10.1021/acs.jafc.3c00924.
- 27.
28. Yang, H.; Chen, Y.; Shido, J.M.; Hamasaki, R.T.; Iwaoka, W. T.; Nakamoto, S.T.; Wang, H.; Li, Q.X. 2022. Potential health risk of aluminum in four *Camellia sinensis* cultivars and its content as a function of leaf positions. *International Journal of Environmental Research and Public Health* 19: 11952. DOI: 10.3390/ijerph191911952
29. Huang, J.; Li, M.; Jin, F.; Wang, Z.; Li, W.; Pan, D.; Li, Q.X.; Wu, X. 2022. Isolation of *Sphingomonas* sp. AJ-1 and its enantioselective S-methylation of the triazole fungicide prothioconazole. *Science of the Total Environment* 851: 158220. DOI: 10.1016/j.scitotenv.2022.158220
30. Hong, J.; Zhang, M.; Shi, L.; Liu, P.; Guo, Y.; Zhao, T.; Li, Q.X.; Yang, L. 2022. Copper(I)-catalyzed synthesis of natural alkaloid tryptanthrin and its derivatives. *New Journal of Chemistry* 46: 13540-13545. DOI: 10.1039/D2NJ01307J.
31. Lv, P.; Tao, Y.; Zhang, N.; Yang, Y.; Wu, X.; Li, Q.X.; Hua, R. 2022. Cyanidin-3-O-glucoside mediated photodegradation of profenofos in water. *Chemosphere* 308: 13670. DOI: 10.1016/j.chemosphere.2022.136170
32. Wang, X.; Wen, S.; Shi, T.; Li, Q.X.; Lv, P.; Huan, R. 2022. Photocatalysis of the triketone herbicide tembotrione in water with bismuth oxychloride nanoplates: Reactive species, kinetics and pathways. *Journal of Environmental Chemical Engineering* 10: 108455.
33. Chio, E.H.; Li, Q.X. 2022. Pesticide research and development: General discussion and spinosad case. *Journal of Agricultural and Food Chemistry*. 70: 8913-8919. DOI: 10.1021/acs.jafc.2c03821
34. Zhang, L.; Li, Q.X.; Li, X.; Yoza, B.; Zhou, L. 2022. Toxicity of nanoparticles of AgO, La₂O₃, CuO, AgO-Fe₃O₄, Ag-graphene, and GO-Cu-AgO to the fungus *Moniliella wahliae* Y12^T isolated from biodiesel and the bacterium *Escherichia coli*. *Journal of Biomedical Nanotechnology* 18(3): 928-938. DOI: 10.1166/jbn.2022.3299.
35. Nie, E.; Chen, Y.; Zhou, X.; Xu, L.; Zhang, S.; Li, Q.X.; Ye, Q.; Wang, H. 2022. Uptake and metabolism of ¹⁴C-triclosan in celery under hydroponic system. *Science of the Total Environment* 846: 157377. DOI: 10.1016/j.scitotenv.2022.157377
36. Li, H.; Pan, L. Yu, C.; Zhang, X.; Cui, X.; Luo, T.; Cao, Z.; Wang, J.; Li, Q. 2022. Development and validation for simultaneous determination of disulfoton and its five metabolites in seven agro-products using liquid chromatography-tandem mass spectrometry combined with QuEChERS extraction method. *Chromatographia* 85(6): 529-537. DOI: 10.1007/s10337-022-04151-1.
37. Wang, L.; Huang, M.; Wu, Z.; Huang, M.; Yan, Y.; Song, B.; Li, X.; Li, Q.X. 2022. Methyl eugenol binds recombinant gamma-aminobutyric acid receptor-associated protein from the western flower thrips *Frankliniella occidentali*. *Journal of Agricultural and Food Chemistry* 70: 4871-4880. DOI: 10.1021/acs.jafc.1c07431
38. Liu, Z.; Li, Q.X.; Song, B. 2022. Pesticidal mode of action of monoterpenes. *Journal of Agricultural and Food Chemistry* 70: 4556-4571. DOI: 10.1021/acs.jafc.2c00635
39. Fang, L.; Zhu, H.; Geng, Y.; Zhang, G.; Zhang, H.; Shi, T.; Wu, X.; Li, Q.X.; Hua, R. 2022. Resistance properties and adaptation mechanism of cadmium in an enriched strain, *Cupriavidus nantongensis* X1^T. *Journal of Hazardous Materials* 434: 128935. DOI: 10.1016/j.jhazmat.2022.128935

40. Long, Y.; Wei, X.; Wu, S.; Wu, N.; Li, Q.X.; Tan, B.; Wan, X. 2022. Plant molecular farming, a tool in functional food production. *Journal of Agricultural and Food Chemistry* 70(7): 2108-2116. DOI: 10.1021/acs.jafc.1c0718
41. Feng, J.; Zhao, X.; Yan, Y.; Chen, H.; Liu, J.; Li, X.; Na, R.; Li, Q.X. 2022. Interactions between stipuol enantiomers and human serum albumin. *Food Chemistry* 385: 132686.
42. Ortega Ramirez, C.A.; Ching, T.; Yoza, B.; Li, Q.X. 2022. Glycerol-assisted degradation of dibenzothiophene by *Paraburkholderia* sp. C3 is associated with polyhydroxyalkanoate granulation. *Chemosphere* 291: 133054. PMID: 34838841. DOI: 10.1016/j.chemosphere.2021.133054
43. Yao, Y.; Huang, L.; Xu, Y.; Li, Q.X. 2022. Recombinant *Arthromyces ramosus* peroxidase has similar substrate specificity profiles as, but a catalytic efficiency up to 11-fold higher than horseradish peroxidase. *Journal of Agricultural and Food Chemistry* 70(2): 646–655. PMID: 34981926. DOI: 10.1021/acs.jafc.1c06261
44. Xu, M.; Lantz, M.J.; Nichols, R.; Li, Q.X. 2022. Anti-neuroinflammatory effects of a semi-synthetic isoorientin-based GSK-3 β inhibitor in lipopolysaccharide-activated microglial cells. *ACS Chemical Neuroscience* 13(1): 43-52. PMID: 34913695. DOI: 10.1021/acscchemneuro.1c00537
45. Zhang, Z.; Tan, X.; Sun, X.; Wei, J.; Li, Q.X.; Wu, Z. 2022. 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*. 152(1): 140-152. PMID: 34636875. DOI: 10.1093/jn/nxab328
46. Zhang, L.; Cui, J.; He, Q.; Li, Q.X. 2022. High performance computation and artificial intelligence in pesticide discovery: status and outlook. *Frontiers of Agricultural Science and Engineering* 9(1): 150-154. DOI: 10.15302/J-FASE-2021419
47. Yin, J.-M.; Quan, M.-P.; Wang, Z.; Wang, J.; Yang, Z.-K.; Duan, L.-S.; Li, Z.-H.; Li, Q.X.; Wang, H.-L.; Tan, W.-M. 2022. Cation modified lignin: Regulation of synthetic microspheres for achieving anti-photolysis and sustained release of the abscise acid. *Industrial Crops and Products* 177: 114573. DOI: 10.1016/j.indcrop.2022.114573
48. Zeng, L.-J.; Huang, Y.-H.; Lü, H.; Geng, J.; Zhao, H.-M.; Xiang, L.; Li, H.; Li, Y.-W.; Mo, C.-H.; Cai, Q.-Y.; Li, Q.X. 2022. Uptake pathways of phthalates (PAEs) into Chinese flowering cabbage grown in plastic greenhouses and lowering PAE accumulation by spraying PAE-degrading bacterial strain. *Science of the Total Environment* 815: 152854. DOI: 10.1016/j.scitotenv.2021.152854.
49. Wang, W.; Zhao, Z.; Yan, H.; Zhang, H.; Li, Q.X.; Liu, X. 2022. Carboxylesterases from bacterial enrichment culture degrade strobilurin fungicides. *Science of the Total Environment* 814: 152751. DOI: 10.1016/j.scitotenv.2021.152751
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Extension Publications (reverse chronological order)

1. Van Emon, J.M.; Li, Q.X. A tribute to James N. Seiber (1940-2023). 2023. AGRO 50 and Beyond, Anniversary Celebration of the Agrochemicals Division, ACS Fall 2023 meeting, San Francisco, California, USA. AGRO 50 and Beyond Program Book: 22-21.
2. Pan, D.; Yang, Y.; Nong, A.; Tang, Z.; Li, Q.X. 2023. Roles of GRP78 in regulating lipid metabolism. *Encyclopedia*: <https://encyclopedia.pub/entry/41127>
3. Baker, M.R.; Li, Q.X.; Seiber, J.N. 2021. Wildfire smoke's effects on agriculture and foods warrant more study. *Journal of Agricultural and Food Chemistry* 69(51): 15435-15436. DOI: 10.1021/acs.jafc.1c06745
4. Seiber, J.N.; Baker, M.R.; Li, Q.X. 2021. Protecting and enhancing scarce water resources through chemistry. *Journal of Agricultural and Food Chemistry* 69(32): 9199-9201. DOI: 10.1021/acs.jafc.1c03540
5. Song, B.A.; Seiber, J.N.; Duke, S.O.; Li, Q.X. 2020. Green Plant Protection Innovation: Challenges and Perspectives. *Engineering* 6: 483-484.
6. 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.
7. 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>
8. 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>
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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 pejiabaye. 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.; Yao, Y. Recombinant fungal *Arthromyces ramosus* peroxidase and its applications. US provisional patent, 2023
2. Li, Q.X.; Hu, Q-Y. Anti-obesity effects of 78-kDa glucose regulated protein inhibitors. US provisional patent, 2020.
3. Li, Q.X.; Liang, Z. Inhibitors of soluble epoxide hydrolase and p38 kinase as Alzheimer's therapeutics. The US provisional patent, 2019.
4. 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.
5. 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.
6. Li, Q.X. Bioinsecticidal compositions containing monoterpenes and methods of use Thereof. PCT, 2018.
7. Li, Q.X.; Liang, Z. GSK-3 β inhibitors and use thereof in methods of treatment. PCT, 2018.
8. 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
9. Li, Q.X.; Liang, Z. Discovery of potent, selective, substrate-competitive and bioavailable glycogen synthase kinase-3 β inhibitors for Alzheimer's disease: design, synthesis and biological evaluation of novel C-glycosylflavones. The US provisional patent, 2017.
10. 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.
11. Li, Q.X.; Fan, Y.; Peng, H. Monoterpenoids are insecticidal to insects. The US provisional patent, 2017.
12. Li, Q.X.; Wen, B. Expression and characteristics of windmill palm tree peroxidase (*Trachycarpus fortunei*) in *Pichia pastoris*. Provisional patent, 2016.
13. 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.
14. Li, Q.X.; Fan, Y.; Peng, H. Monoterpenoids are insecticidal to agricultural, storage and household insect pests. The US provisional patent, 2016.
15. Li, Q.X.; Liang, Z. C-Glycosylflavones and extracts from corn silks for prevention and treatment of Alzheimer's disease. Provisional patent, 2015.

16. 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
17. 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
18. 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.
19. Chang, C.L.; Cho, I.K.; Li, Q.X. Human consumable essential oil is highly toxic to pest tephritid fruit flies. Provision patent, 2007.
20. Rima, J.; Aouezova, L.; Li, Q.X. Encapsulation technology for continuous, efficient and in-situ harvest of natural aromas. Provision patent, 2005.
21. 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.
22. Wu, L.; Li, Q.X. Programmed-temperature retention index database for identification and analysis of polychlorinated biphenyls and other organochlorines. Licensing disclosure, 2002.
23. 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.
24. Li, Q.X.; Li, K. Antibodies to imidacloprid. Provisional patent, 2000.

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

2023	Immediate past chair, AGRO division, American Chemical Society (ACS)
2022	Chair, AGRO division, ACS
2021-present	Award committee chair, AGRO division, ACS.
2021	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

<u>Category</u>	<u>Current Number of Students</u>	<u>Number Graduated (Career)</u>
Chair of Master’s Committees	1	8 MBBE
Chair of PhD Committees	1	7 MBBE
Member of Master’s Committees	2	29
Member of PhD Committees	8	25

Grant Support

HI DOA notified for funding (Q. Li, PI) Approximately 10/2023 – 9/2029
 State of Hawaii Dept of Agriculture \$1,849,652
Pesticide drift monitoring study.
 The goal is to conduct a pesticide drift monitoring study at three schools on three islands in the State of

Hawaii and assess magnitude of potential exposure to the pesticides and potential health risk.
Overlap: None; Role: PI

HI DOA 69854 (Q. Li, PI) 11/2021 – 12/2026
State of Hawaii Dept of Agriculture \$227,550
Pesticide fate and leachability assessment project.
The goal is to assess the leachability and fate of new pesticides to support their registration for use in Hawaii.
Overlap: None; Role: PI

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

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

18ADVC-90801 (QX Li, PI) 7/2018 – 12/2020
Hawaii Community Foundation \$70,000
Structural optimization and pharmacokinetics evaluation of glycogen synthase kinase-3 β inhibitors as Alzheimer drug candidates.
The goal is to improve potency and elucidate pharmacokinetics of GSK3 β inhibitors for Alzheimer's disease drug candidates.
Overlap: None; Role: PI

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

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

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

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

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 GSK3 β as the primary therapeutic target and identify isoorientin target proteins in neuroblastoma cells.

Overlap: None; Role: PI

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

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 hems in Hawaii, which may be used for hempcrete, biofuel and phytoremediation.

Overlap: None; Role: Co-PI

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

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

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

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

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

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 2023. Reverse chronological order)

1. Li, Q.X. Perspective on pesticide discovery: Can GABA receptor associated protein be a valid insecticidal target? International Symposium on Plant Biosafety, Kunming, China. October 30 – 31, 2023. Invited.
2. Cai, Q.-Y.; Huang, Y.-H.; Li, H.; Li, Y.-W.; Mo, C.-H.; Zhao, H.-M.; Xiang, L.; Li, Q.X. Phthalates: Effect on and transformation promotion response of rhizosphere bacterial community to pollution of phthalates (PAEs) and promotion of PAE dissipation. ACS Fall 2023 meeting. San Francisco, CA & Hybrid. August 13 – 17, 2023.
3. Xiang, L.; Yu, P.-F.; Zhao, H.-M.; Li, Y.-W.; Cai, Q.-Y.; Mo, C.-H.; Qing X. Li. Uptake and translocation of perfluorooctanoic acid and perfluorooctane sulfonate in lettuces (*Lactuca sativa* L.). ACS Fall 2023 meeting. San Francisco, CA & Hybrid. August 13 – 17, 2023.
4. Irrig, H.; Gross, A; Li, Q.X. Awareness and impact of the role of AGRO in mitigating world hunger. ACS Spring 2023 Meeting. Indianapolis, IN. March 26 to 30, 2023.
5. Li, Q.X. Direct interactions between dihydromyricetin and 78-kDa glucose regulated protein and its anti-adipogenic effects on 3T3-L1 cells. The 8th International Caparica Conference on Analytical Proteomics – ICAP2022. July 18–21, 2022. Caparica, Portugal. Invited.
6. Li, Q.X. Synergy from International Collaboration. China-ASEAN Forum on Novel Green Pesticide Development. December 18-19, 2021. Guiyang, China. Online. Invited.
7. Li, Q.X. Significance of bioaccessibility in microbial degradation of persistent organic pollutants. Pacificchem 2021. Dec. 16-21, 2021. Online. Invited.

8. Li, Q.X. Action mechanisms and effects of flavonoids against obesity and Alzheimer's disease. 2021 International Tea Conference & 3rd Global Forum for Directors of Tea Research Institutes. November 25 and 26, 2021. Hangzhou, China. Online. Invited.
9. 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.
10. Li, Q.X. Scientific article writing and communications. China-ASEAN faculty development training on modern agricultural technology under the background of "The Belt & Road initiative". September 22-26, 2021. Guiyang, China. Invited.
11. 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.
12. 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.
13. Li, Q.X. One health: from ecological health to human health. Department of Environmental Toxicology, University of California at Davis. May 21, 2020. Invited.
14. 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.
15. 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.
16. 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
17. Xu, M.; Li, Q.X. Anti-neuroinflammatory effects of the GSK-3 β 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.
18. Dong, Y.; Zhang, L.; Li, Q.X. Structural optimization of isoorientin as glycogen synthase kinase-3 β inhibitors for potential Alzheimer's disease relief. The 260th National Meeting of the American Chemical Society (ACS). August 17-20, 2020. San Francisco.
19. 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.
20. 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.
21. 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
22. 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.
23. Li, Q.X. Chemistry tools for invasive pest control. Invasive Pest Conference. Imiloa Astronomy Center, Hilo, Hawaii, USA. August 22, 2019. Invited.
24. Li, Q.X. Abiotic and biotic transformation. 2019 International workshop on the recycled use of food waste. January 11-13, 2019, Suzhou, China. Invited.

25. 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.
26. 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.
27. Li, Q.X. Target identification and mechanisms of insecticide action. The 2nd International Insect Pest Management Conference. Guiyang, China. July 27, 2019. Invited.
28. 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.
29. Liang, Z.; Li, Q.X. Harnessing the π -cation interaction in rational drug design: Discovery of potent and isoform-specific GSK-3 β inhibitors for Alzheimer's disease. Alzheimer's Association International Conference, July 22-26, 2018, Chicago, USA
30. Li, Q.X. c-Glycosylflavonoids as glycogen synthase kinase-3 β 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.
31. 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.
32. Li, Q.X. Synergy between agricultural proteomics and biomedical proteomics. The first Kyoto Biomolecular mass spectrometry society symposium. February 7, 2017. Kyoto, Japan. Invited.
33. 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.
34. 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.
35. 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.
36. Liang, Z.; Li, Q.X. Computer-aided drug discovery of selective GSK3 β inhibitors inspired by natural products for Alzheimer's disease. 2017 American Society of Pharmacognosy Meeting. July 29 – August 2, 2017. Portland, Oregon.
37. 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.
38. 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.

39. Liang, Z.; Li, Q.X. Selective GSK3 β 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.
40. 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.
41. 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.
42. 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.
43. Liang, Z.; Li, Q.X. Glycosylflavone as glycogen synthase kinase-3 β inhibitor alleviates tau hyperphosphorylation and amyloid neurotoxicity. 252nd ACS National Meeting, August 21-25, 2016. Philadelphia, PA.
44. Liang, Z.; Zhang, B.; Su, W.W.; Williams, P.G.; Li, Q.X. Glycosylflavone as glycogen synthase kinase-3 β inhibitor alleviates tau hyperphosphorylation and amyloid neurotoxicity. Hawaii 2016 Neuroscience Symposium. August 20, 2016. Honolulu, HI.
45. 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, November 6-10, 2016. Orlando, Florida.
46. 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.
47. 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.
48. 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.
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