

BIOGRAPHICAL SKETCH



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Education:

Post-doc in Animal Science, University of Hawaii, USA
PhD in Animal Physiology & Biochemistry, Nanjing Agricultural University, Nanjing, China
BS in Biochemistry, Nanjing University, Nanjing, China

Professional Experience:

2014- Director, Graduate Program of Food Nutrition Health, Kansas State Univ
2012- Professor, Dept of Food Nutrition Dietetics & Health, Kansas State Univ
2006-2012 Associate Professor, Dept of Human Nutrition, Kansas State Univ
2002-2006 Assistant Professor, Department of Human Nutrition, Kansas State University
1998-2002 Associate Scientist, Dept of Food Sciences & Human Nutrition, Iowa State Univ
1997-1998 Assistant Scientist, Dept of Food Sciences & Human Nutrition, Iowa State Univ
1992-1997 Junior Researcher, Cancer Research Center of Hawaii, Univ of Hawaii

Honors & Awards:

2023-2027 Federal Advisory LSTRC Committee, National Institute of Health
2024, 2005 Faculty Research Excellence Award, College of Health and Human Sciences,
 Kansas State Univ
2024-2027 T&P Committee, College of Health and Human Sciences, Kansas State Univ
2024, 2018 Professorial Performance Award, Provost Office of Kansas State University
2016-2017 Panel Manager of USDA-NIFA Nutritional Grant Panel
2016-2018 Chair of the American Society for Nutrition's Diet and Cancer Section
2015-2019 US Working Group on Codex General Principles of Food Hygiene, FDA Office
 of Food Safety
2015-2025 Graduate Faculty, University of Kansas Cancer Center
2006, 2013 Faculty Senator, Kansas State University
2008-2011 University General Education Council, Kansas State University
2009 Dawley-Scholar Award for Faculty Excellence in Student Development, College
 of Human Ecology, Kansas State University.
2006-2015 Faculty Council, College of Human Ecology, Kansas State University
2004-2006 Academic Affairs Committee, College of Human Ecology, Kansas State Univ
2003-2005 IACUC Committee, Kansas State University
2002-2025 University Radiation Safety Committee, Kansas State University
1994 Mead Johnson Award for Outstanding Achievement in the Field of Biomedical
 Research, John A. Burns School of Medicine, University of Hawaii

Grant Review:

2024, 2022 Czech Science Foundation
2020 Polish National Science Center

2019 NIH-NCI's SEP-2 for Provocative Questions
 2014-2024 USDA-NIFA Grant Review Panel
 2015 Oklahoma Agricultural Experiment Station
 2015 University of Missouri Research Board
 2011-2012 NIH-NCI Provocative Questions Initiative Study Section
 2011 Pilot Projects-Puerto Rico Clinical and Translational Research Consortium
 2009 Oncology-2 OTC of NIH Recovery Act Grants
 2009 USDA Agriculture and Food Research Initiative Panel
 2006-2009 NIH-NCI Chemo/Dietary Prevention Study Section
 2007 NIH Arthritis, Connective Tissue and Skin Sciences
 2007 NIH Member Conflict for Arthritis, Connective Tissue and Skin Sciences
 2007 NIH Small Business for Arthritis, Connective Tissue and Skin Sciences
 2007 NIH Special Emphasis Panel
 2006 Commonwealth of Virginia Jeffress Research Grant
 2005-2007 Canadian Agricultural Research Funding Consortium
 2004 United Kingdom's National Cancer Research Institute
 2004 NIH Skin and Rheumatology Study Section
 2003 USDA-ARS Program Review Panel

Peer-reviewed Journal Articles (*senior & corresponding author):

- Zengping Liu, Wenshuai Tang, Guozhen Wang, Jingwen Xu, Lijie Zhu, Qingyun Lyu, **Weiqun Wang**, Xi Chen, Wenping Ding. Ferulic acid inhibition colon cancer cells at different Duke's stages. *Food & Medicine Homology* 2025; 2:9420063
<https://doi.org/10.26599/FMH.2025.9420063>
- Md Suzauddula, Kaori Kobayashi, Sunghun Park, Xiuzhi Susan Sun, **Weiqun Wang***. Bioengineered Anthocyanin-enriched tomatoes: a novel approach to colorectal cancer prevention. *Foods* 2024; 13(18), 2991. <https://doi.org/10.3390/foods13182991>
- Jaymi Peterson, Adina Santana, Sarah Cox, Mayra Perez-Fajardo, Jose Covarrubias, Ramasamy Perumal, Scott Bean, Xiaorong Wu, **Weiqun Wang**, Dmitriy Smolensky. Impact of heat and high-moisture pH treatments on starch digestibility, phenolic compounds, and cell bioactivity in sorghum (*Sorghum bicolor* L. moench) flour. *Frontiers in Nutrition* 2024; <http://doi.org/10.3389/fnut.2024.1428542>
- Cheng Li, Wei Wu, Michael Tilley, Richard Chen, Xiuzhi Susan Sun, **Weiqun Wang**, Yonghui Li. In vitro antioxidant properties of wheat bran extracts and their inhibitory effects on collagenase, elastase, and hyaluronidase. *ACS Food Science & Technology* 2024; <http://doi.org/10.1021/acsfoodscitech.4c00310>
- Kaori Kobayashi, Xiaohui Wang, **Weiqun Wang***. Genetically modified rice is associated with hunger, health, and climate resilience. *Foods* 2023; 12(14):2776.
<http://doi.org/10.3390/foods12142776>
- Shan Xu, Guangyan Qi, Timothy P. Durrett, Yonghui Li, Xuming Liu, Jianfa Bai, Ming-Shun Chen, Xiuzhi Susan Sun, **Weiqun Wang***. High nutritional quality of human induced pluripotent stem cells-generated proteins through advanced scalable peptide hydrogel 3D suspension system. *Foods* 2023; 12(14):2713. <http://doi.org/10.3390/foods12142713>
- Fei Zhou, Yuwen Liu, Jie Ren, **Weiqun Wang**, Cen Wu. Springer: An R Package for bi-level variable selection of high-dimensional longitudinal data. *Frontiers in Genetics* 2023; 14:1088223.
<http://doi:10.3389/fgene.2023.1088223>

- Kelly M Gude, Eleni D Pliakoni, Channa B Rajashekar, **Weiqun Wang**, Kanwal Ayub, Qing Kang, Cary L Rivard. Effects of Various High Tunnel Coverings on Color and Phenolic Compounds of Red and Green Leaf Lettuce (*Lactuca Sativa*). *J Food Nutr Health* 2022; 3(1):116; <https://doi.org/10.47275/2692-5222-116>
- Jiejia Zhang, Jason Griffin, Yonghui Li, Donghai Wang, **Weiqun Wang**. Antioxidant Properties of Hemp Proteins: From Functional Food to Phytotherapy and Beyond. *Molecules* 2022, 27(22), 7924; <https://doi.org/10.3390/molecules27227924>
- Laddomada B, **Wang W**. Multiple approaches to improve the quality of cereal-based foods. *Foods* 2022, 11:1849; <https://doi.org/10.3390/foods11131849>
- Wenfei Tian, Yiqin Zhang, **Weiqun Wang**, Donghai Wang, Michael Tilley, Guorong Zhang, Zhonghu He, Yonghui Li. A comprehensive review of wheat phytochemicals: from farm to fork and beyond. *Comprehensive Reviews in Food Science and Food Safety*. 2022, 21:2274-308; <http://doi.org/10.1111/1531-4337.12960>
- Fei Zhou, Jie Ren, Yuwen Liu, Xiaoxi Li, **Weiqun Wang**, Cen Wu. Interep: an R package for high-dimensional interaction analysis of the repeated measurement data. *Genes* 2022; 13(544) <http://doi.org/10.3390/genes13030544>
- Ruijia Hu, Jingwen Xu, Guangyan Qi, **Weiqun Wang**, Xiuzhi Sun, Yonghui Li. Antioxidative hydrolysates from corn gluten meal may effectively reduce lipid oxidation and inhibit HepG2 cancer cell growth. *Journal of Agriculture and Food Research* 2022; 7(3):100252 (<https://doi.org/10.1016/j.jafr.2021.100252>)
- Myungjin Lee, Cary L. Rivard, **Weiqun Wang**, Eleni Pliakoni, Kelly Gude, Channa Rajashekar. Spectral Blocking of Solar Radiation in High Tunnels by Poly Covers: Its Impact on Nutritional Quality Regarding Essential Nutrients and Health-promoting Phytochemicals in Lettuce and Tomato. *Horticulturae* 2021; 7(12):524 (<https://doi.org/10.3390/horticulturae7120524>)
- Jingwen Xu, Weiqun Wang, Yong Zhao. Phenolic compounds in whole grain sorghum and their health benefits. *Foods* 2021; 10:1921 (<https://doi.org/10.3390/foods10081921>)
- Wenfei Tian, Ruijia Hu, Gengjun Chen, Yiqin Zhang, Weiqun Wang, Yonghui Li. Potential bioaccessibility of phenolic acids in whole wheat products during in vitro gastrointestinal digestion and probiotic fermentation. *Food Chemistry* 2021; 362:130135.
- Xi Chen, Jiamin Shen, Jingwen Xu, Thomas Herald, Dmitriy Smolensky, Ramasamy Perumal, Weiqun Wang. Sorghum phenolic compounds are associated with cell growth inhibition through cell cycle arrest and apoptosis in human hepatocarcinoma and colorectal adenocarcinoma cells. *Foods* 2021; 10(5):993 (<https://doi.org/10.3390/foods10050993>)
- Jingwen Xu, Guangyan Qi, Weiqun Wang, Xiuzhi Sun. Advances in 3D Peptide Hydrogel Models in Cancer Research. *Science of Food*. 2021; 5:14 (<https://doi.org/10.1038/s41538-021-00096-1>)
- Jingwen Xu, Yonghui Li, Yong Zhao, Donghai Wang, Weiqun Wang. Influence of Antioxidant Dietary Fiber on Dough Products and Bread Qualities: A Review. *Journal of Functional Foods*. 2021; 80:104434.
- Youjie Xu, Jikai Zhao, Ruijia Hu, Weiqun Wang, Jason Griffin, Yonghui Li, Xiuzhi Sun, Donghai Wang. Effect of genotype on the physicochemical, nutritional, and antioxidant properties of hempseed. *Journal of Agriculture and Food Research*. 2021; 3:100119.
- Myungjin Lee, Cary Rivard, Eleni Pliakoni, Weiqun Wang, C.B. Rajashekar. Supplemental UV-A and UV-B Affect the Nutritional Quality of Lettuce and Tomato: Health-promoting Phytochemicals and Essential Nutrients. *American Journal of Plant Sciences*. 2021; 12:104-26.

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- Lei Wu, Xin Guo, Siau Yen Wong, Peiran Lu, Steven D. Hartson, Denis M. Medeiros, Weiqun Wang, Stephen L. Clarke, Edralin A. Lucas, Brenda J. Smith, Winyoo Chowanadisai, Dingbi Lin. Deficiency of b-carotene oxygenase 2 induces mitochondrial fragmentation and activates the STING-IRF3 pathway in the mouse hypothalamus. *Journal of Nutritional Biochemistry*. 2021; 88:108542
- Xu Y, Li J, Zhao J, Wang W, Griffin J, Li Y, Bean S, Tilley M, Wang D. Hempseed as A Nutritious and Healthy Food Source: A Review. *International Journal of Food Science and Technology*. 2021; 56:530-43.
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effect of apigenin analogues on G2/M cell cycle arrest in human colon carcinoma celllines. *Nutrition and Cancer* 2004; 48: 106-14.

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Editorial & Book Chapters:

- Functional Cereal Foods for Health Benefits: genetic and/or Processing Strategies to Enhance the Quali-Quantitative Composition of Biactive Compounds. (Editors Laddomada B and **Wang W.**) MDPI, 2022; Basel.
- Laddomada B, **Wang W.** Multiple approaches to improve the quality of cereal-based foods. *Foods* 2022; 11:1849. doi.org/10.3390/foods11131849
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Synergistic Activities:

Grant Support: A total of 30 research grants, amounting to over \$5 million, have been successfully funded. These grants include prestigious awards as principal investigator such as NIH R01, NIH R15, USDA-NIFA, and American Heart Association Award, etc.

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