

CURRICULUM VITAE

(Dr. Jia-Sheng Wang)

CURRENT POSITION

UGA Athletic Association Professor in Public Health and
Department Head
Department of Environmental Health Science
College of Public Health
The University of Georgia

CONTACT INFORMATION

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EDUCATION AND TRAINING

NIEHS Post-doctoral Fellow, 1994-1995, School of Hygiene and Public Health, Johns Hopkins University, Baltimore, Maryland. Specialty: Molecular Epidemiology; Mentor: Professor John D. Groopman.

Doctor of Philosophy, 1990-1994, Boston University School of Medicine, Boston, Massachusetts. Specialty: Pathology and Immunology; Advisors: Professors Adraine E Rogers & Alfred Tauber

Postdoctoral Associate Research Training, 1986-1991, Massachusetts Institute of Technology, Cambridge, Massachusetts, Specialty: Toxicology/Biomarkers; Mentor: Professor Gerald N. Wogan, Member of National Academy of Science; Member of Institute of Medicine.

Master of Medicine, 1978-1981, Shanghai First Medical College, Shanghai. Specialty: Nutritional Toxicology and Food Safety in Preventive Medicine and School of Public Health

Medical Internship, Shanghai Mei Shan Hospital, 1977, Shanghai.

Graduation Diploma, MB, 1975-1978, Shanghai First Medical College, Shanghai. Specialty: Preventive Medicine; equivalent to MD in USA, evaluated by US-China Education Exchange Committee in 1985.

PROFESSIONAL EXPERIENCE

Professor and Head, Department of Environmental Health Science, College of Public Health, The University of Georgia (fall 2008-present)

Professor of Toxicology, Interdisciplinary Toxicology Program, The University of Georgia (fall 2008- present)

Professor of Food Safety, Center for Food Safety, The University of Georgia (fall 2008-present)

Chang Jiang Scholar (Lecture Professor) for Food Safety, Jiangnan University (2009-2012)

Fulbright Scholar Advisor, Fulbright Program (2008-present)

Adjunct faculty, TIEHH, Texas Tech University (TTU) Health Science Center (2008-present)

Member, UGA Cancer Center (2009-present)

Professor of Molecular Toxicology, Department of Environmental Toxicology, College of Science and Arts, Texas Tech University (2005-2008)

Division Leader, Division of Human Health Sciences, The Institute of Environmental and Human Health, Texas Tech University System (2005-2008)

Program Leader, Cancer Prevention and Carcinogenesis, Southwest Cancer Research and Treatment Center, Texas Tech University Medical Center (2005-2008)

Visiting professor for Southeast University, Jiangnan University, Guangxi Medical University (2000-present)

Associate Professor of Molecular Toxicology, Department of Environmental Toxicology, Texas Tech University (2000-2005)

Research Assistant Professor, Molecular Epidemiology Program, Department of Environmental Health Sciences, School of Hygiene and Public Health, Johns Hopkins University (1997-2000)

Senior Research Associate, Molecular Epidemiology Program, Department of Environmental Health Sciences, School of Hygiene and Public Health, Johns Hopkins University (1994-1996)

Research Affiliate, Division of Toxicology, Massachusetts Institute of Technology (1992-1993)

Ph.D Candidate and Research Assistant, Oncology and Hematology Section, Department of Pathology and Laboratory Medicine, Boston University School of Medicine (1990-1993)

Visiting Research Scientist/Postdoctoral Associate, Division of Toxicology, Department of Applied Biological Science, and NIEHS Center for Environmental Health Sciences, Massachusetts Institute of Technology (1986-1991).

Assistant Professor, Division of Nutrition and Food Hygiene, Department of Preventive Medicine, Nanjing Railway Medical College (1982-1985)

Assistant Dean for Research, School of Public Health, Nanjing Railway Medical College (1984-1985)

Head, Laboratory of Toxicology, Department of Preventive Medicine, Nanjing Railway Medical College (1983-1986)

Acting Director, Division of Nutrition and Food Hygiene, Department of Preventive Medicine, Nanjing Railway Medical College (1982)

Teaching and Research Assistant, Food Toxicology Program, Department of Nutrition and Food Hygiene, Shanghai First Medical College (1978-1981)

ADMINISTRATIVE EXPERIENCE

Department Head, Department of Environmental Health Science, College of Public Health, The University of Georgia (2008-Present)

Executive Committee Member, College of Public Health, The University of Georgia (2008-Present)

Executive Committee Member, Interdisciplinary Toxicology Program. The University of Georgia (2008-Present)

Division Leader, Division of Human Health Sciences, The Institute of Environment and Human Health, Texas Tech University/Texas Tech University Health Sciences Center (2005-2008)

Executive Committee Member, The Institute of Environment and Human Health, Texas Tech University/Texas Tech University Health Sciences Center (2005-2008)

Program Director, Program for Cancer Prevention and Carcinogenesis, Southwest Cancer Research and Treatment Center, Texas Tech University Medical Center (2005-2008)

Executive Committee Member, Southwest Cancer Research and Treatment Center, Texas Tech University Medical Center (2005-2008)

Assistant Dean, School of Public Health, Nanjing Railway Medical College, (1984-1985)

Acting Director, Division of Nutrition and Food Hygiene, Department of Preventive Medicine, Nanjing Railway Medical College (1982)

PROFESSIONAL ACTIVITIES

Society Full Membership:

American Association for the Advancement of Science
American Association for Cancer Research
American Society of Microbiology
American Society of Nutrition
American Society of Preventive Oncology
International Society of Toxinology
Society of Metabolomics
Society of Toxicology
The Society of Environmental Toxicology and Chemistry

Professional Society Leadership:

Society of Toxicology FDA Colloquium Organizing Committee (2018-2021)

Past-President, Food Safety Specialty, Society of Toxicology (2010-2011)

President, Food Safety Specialty, Society of Toxicology (2009-2010)

Vice President, Food Safety Specialty, Society of Toxicology (2007-2008)

Past-President, American Association of Chinese Toxicologists (2011-2013)

President, American Association of Chinese Toxicologists (2009-2011)

President-elect, American Association of Chinese in Toxicology (2007-2008)

General Secretary, Advisory Committee for Food Hygiene and Safety in Jiangsu Province (1984-1986)

Co-chair of subcommittee of Nutrition and Food Safety, Committee for Development of Food Science and Technology, Jiangsu Province (1984-1986)

Board Member and Secretary, Chinese Association of Food Safety and Hygiene, Jiangsu Branch (1984-1986)

Grant Reviewer:

US CDC Study Section for review UO-1 grants for impact of climate changes on human diseases, 2014-

National Institute of Environmental Health Sciences (NIEHS) Study Section for review NIEHS Center Grants, 2006-present

National Institute of Environmental Health Sciences (NIEHS) Study Section for review KO1, ROO, RO3, R13, R15, and R21 projects, 2005-present

National Cancer Institute (NCI) Study Section for Reviewing Program Projects, 2005-2010.

Reviewer for Department of Defense Biomedical Research Projects, 2003-2006.

Consultations:

Technical Consultant for International Food Policy Research Institute, Washington, DC (2013-2017);

Member, the Cancer Control Advisory Committee for the State of Texas (2007-2008).

Technical Consultant for Mycotoxin Detection, ADA Technologies, Inc., Littleton, CO (2005-2007)

Technical Consultant for Mycotoxin Detection, VICAM, Watertown, MA (1997-1999)

Seafood Safety and Contaminations Expert Panel, Baltimore Sun (September 1995; January 1998)

EDITORIAL ACTIVITIES

Editorial Board Member:

International Journal of Molecular and Genetic Epidemiology
Journal of Environmental and Occupational Medicine
Food Additives and Contaminants
International Journal of Hepatocellular Carcinoma
Journal of Clinical Toxicology

Peer Review Activities for more than 30 journals:

Serve as **peer reviewer** for over 100 international journals, including “Carcinogenesis”, “Cancer Research”, “Cancer Epidemiology, Biomarkers and Prevention”, “International Journal of Cancer”, “Journal of National Cancer Institute”, “Cancer Letters”, “British Journal of Cancer”, “Journal of Biochemical Pharmacology”, “Journal of Nutrition”, “Journal of Nutritional Chemistry”, “Journal of Laboratory Investigation”, “Journal of Hepatology”, “Food and Chemical Toxicology”, “Environmental Toxicology and Chemistry”, “Food Additives and Contaminants”, “Toxicology Letters”, “Journal of Applied Toxicology”, “Journal of Agriculture and Food Chemistry”, “Toxicon”, “Journal of Cancer Prevention”, “Toxicology and Applied Pharmacology”, and “Toxicological Sciences”...etc. from 1990 to present.

HONORS AND AWARDS

Fellow, Academy of Toxicological Sciences, 2018

International Recognized Leaders Lecturer in Food Toxicology, South China University of Technology, summer 2018

Society of Toxicology Translational Impact Award, 2018

Invited Keynote Speaker in International Symposium of Food Safety, Wuxi, China, November 12-14, 2017

Invited Keynote Speaker in International Conference on Food Processing and Safety, Hangzhou, December 1-3, 2016.

UGA Athletic Association Endowed Professor in Public Health, 2013-

Distinguished Chinese Toxicologist Lectureship Award, American Association of Chinese in Toxicology/Society of Toxicology, 2013

Excellence in Research Award, UGA College of Public Health, 2012

Keynote Speaker, Latin-America Association of Mycotoxicology, Cancun, Mexico, June 26-30, 2010

Delta-Omega National Honorary Society in Public Health, 2009

Chang Jiang Lecture Professorship Award, Chinese Ministry of Education (2009-2012)

Fulbright Faculty, Fulbright Foundation, 2009

Georgia Distinguished Cancer Research Scientist (2009-2014)

2006 Outstanding Faculty, TIEHH, TTU

National Research Award (Class II) in Trichothecene Mycotoxicosis awarded by State Scientific Commission of the PRC (1991)

Distinguish Research Award for Food Safety, awarded by Jiangsu Province (1985)

US-China Education Exchange Scholarship Award, 1984-1986

Excellence in Teaching Award for Basic Medical Sciences, awarded by Nanjing Railway Medical College, Nanjing, China (1983-1985)

PUBLICATIONS

Peer Reviewed Journal Articles:

170. Tang, B., Tong, P., Xue, K. S., Williams, P. L., **Wang, J.-S.** and Tang, L. (2019). High-throughput assessment of toxic effects of metal mixtures of cadmium (Cd), lead (Pb), and manganese (Mn) in nematode *Caenorhabditis elegans*. *Chemosphere* 234: 232-241., <https://doi.org/10.1016/j.chemosphere.2019.05.271>
169. Phillips, T. D., Wang, M., Elmore, S. E., Hearon, S., **Wang, J.-S.** (2019). NovaSil clay for the protection of humans and animals from aflatoxins and other contaminants. *Clays and Clay Minerals* 67 (1):99-110.
168. Githanga, D. P., Wangia, R. N., Mureithi, M. W., Wandiga, S., Mutegi, C., Ogotu, B., Agweyu, A., **Wang, J.-S.** and Anzala, O. (2019). The effects of aflatoxin exposure on hepatitis B-induced immunity in Kenyan children. *Curr Probl Pediatr Adolesc Health Care*, In press. <https://doi.org/10.1016/j.cppeds.2019.04.005>
167. Andrews-Trevino, J. Y., Webb, P., Shively, G., Rogers, B. L., Baral, K., Davis, D., Paudel, K., Pokharel, A., Shrestha, R., **Wang, J.-S.**, Ghosh, S. (2019). Relative low maternal aflatoxin exposure is associated with small-for-gestational-age but not with other birth outcomes in a prospective birth cohort study of Nepalese infants. *Journal of Nutrition*, <https://doi.org/10.1093/jn/nxz122>
166. Johnson, J. M., Naeher, L. P., Yu, X., Sosnoff, C., Wang, L., Rathbun, S. L., De Jesud, V. R., Xia, B., Holder, C., Muilenburg, J. L., **Wang, J.-S.** (2019). A Biomonitoring Assessment of Secondhand Exposure to Electronic Cigarette Emissions. *International Journal of Hygiene and Environmental Health (IJHEH)*, 222:816-823.

165. Adetona, A. M., Martin, W. K., Warren, S. H., Hanley, N. M., Adetona, O., Zhang, J., Simpson, C. D., Paulsen, M. H., Rathbun, S. L., **Wang, J.-S.**, DeMarini, D. M., Naeher, L. P. (2019). Urinary Mutagenicity as a Biomarker of Occupational Smoke Exposure of Wildland Firefighters at Prescribed Burns. *Inhalation Toxicology*, accepted.
164. Wangia, R. N., Githanga, D. P., Xue, K. S., Tang, L., Anzala, O. A., **Wang, J.-S.** (2019). Validation of Urinary Sphingolipid metabolites as Biomarkers of Effect for Fumonisin Exposure in Kenya Children. *Biomarkers*, In press. 10.1080/1354750X.2019.1587510
163. Ging, L., Zhu, H., Li T., Ming G., Duan X., **Wang, J.-S.**, Jiang Y. (2019). Molecular signatures of cytotoxic effects in human embryonic kidney 293 cells treated with single and mixture of ochratoxin A and citrinin. *Food Chem. Toxicol.* 123:374-384.
162. Zhou, J., Tang, L. and **Wang, J.-S.** (2019). Assessment of the Adverse Impacts of Aflatoxin B1 on Gut-Microbiota Dependent Metabolism in F344 Rats. *Chemosphere*, 217:618-628.
161. Shen, CL., Smith, BJ., Cao, JJ., Song, X., Newhardt, MF, Corry KA, Tomison, MD, Tang, L., **Wang, J.-S.**, Chyu, M.-C. (2018). Long-term supplementation of green tea polyphenols suppresses bone turnover and benefits bone health in ovariectomized rats: a dose-response study. *Calcified Tissue International*. <https://doi.org/10.1007/s00223-018-0489-y>.
161. Yang, Z., Xue, K. S., Sun, X., Williams, P. L., **Wang, J.-S.**, and Tang, L. (2018). Toxicogenomic Responses to Zearalenone in *Caenorhabditis elegans* Reveal Possible Molecular Mechanisms of Reproductive Toxicity. *Food Chem, Toxicol.* 122:49-58.
160. Lauer, J. M., Duggan, C. P., Ausman, L. M., Griffiths, J. K., Webb, P., **Wang, J.-S.**, Xue, K. S., Agaba, E., Nshakira, N., Ghosh, S. (2018). Association between maternal aflatoxin exposure during pregnancy and adverse birth outcomes in Uganda. *Maternal & Child Nutrition*. <https://doi.org/10.1111/mcn.12701>
159. Zhou, J., Tang, L., Shen, C.-L., Wang, J.-S. (2018). Green tea polyphenols modify gut-microbiota dependent metabolisms of energy, bile constituents and micronutrient in female Sprague-Dawley rats. *J. Nutri Biochem.* 61:68-81.
158. Atusingwize, E., Musinguzi, G., Ndejjo, R., Buregyeya, E., Kayongo, B., Mubeezi, R., Mugambe, R. K., Halage, A. A., Sekimpi, D. K., Bazeyo, W., **Wang, J.-S.**, Ssempebwa, J. C. (2018). Occupational Safety and Health Regulations and Implementation Challenges in Uganda. *Archives of Environ & Occupational Health*. <https://doi.org/10.1080/19338244.2018.1492895>
157. Zhou, J., Tang, L., Wang, J., Wang, J.-S. (2018). Aflatoxin B1 disrupts gut-microbial metabolisms of short chain fatty acids, long chain fatty acids and bile acids in male F344 rats. *Toxicol. Sci.* 164(2):453-464.

156. Leroy, J., Sununtnasuk, C., Garcia-Guerra, A., **Wang, J.-S.** (2018). Low level aflatoxin exposure associated with greater linear growth in southern Mexico: a longitudinal study. *Maternal & Child Nutrition*. <https://doi.org/10.1111/mcn.12619>
155. Zhou, H., Tang, L., Xue, K.S., Qian, H., Sun, X., Williams, PL., and **Wang, J.-S.** (2018). Trans/Multi-generational effects of deoxynivalenol on *Caenorhabditis elegans*. *Chemosphere*, 201:41-49.
154. Xue, K.S., Qian, G., Lin, S., Su, J., Tang, L., Gelderblom, W.C., Riley, RT, Phillips, TD, and **Wang, J.-S.** (2018). Modulation of pre-neoplastic biomarkers induced by sequential aflatoxin B1 and fumonisin B1 exposure in F344 rats treated with UPSN clay. *Food Chem Toxicol.* 114 (2018):316-324.
153. Johnson, J. M., Naeher, L. P., Yu, X., Rathbun, S. L., Muilenburg, J. L., **Wang, J.-S.** (2018). Air Monitoring at Large Public Electronic Cigarette Events. *International Journal of Hygiene and Environmental Health (IJHEH)*, 221:541-547, <https://doi.org/10.1016/j.ijheh.2018.02.003>
152. Wang, J., Tang, L., Zhou, H., Zhou, J., Glenn, TC., Shen, C.-L., and **Wang J.-S.** (2018). Long-term treatment with green tea polyphenols modified the gut microbiome of female Sprague-Dawley rats. *J. Nutr. Biochem.* 56:55-64.
151. Johnson, J. M., Muilenburg, J. L., Rathbun, S. L., Yu, X., Naeher, L. P., **Wang, J.-S.** (2018). Elevated Nicotine Dependence Scores among Electronic Cigarette Users at an Electronic Cigarette Convention. *Journal of Community Health* 43:164-174, DOI 10.1007/s10900-017-0399-3, Published online: 05 July 2017.
150. Shen, C.-L., Brackee, G., Song, X., Tomison, M. D., Finckbone, V. L., Mitchell, K. T. , Tang, L., Cyu, M.-C., Dunn, D. M., **Wang, J.-S.** (2017). Safety Evaluation of Green Tea Polyphenols Consumption in Middle-Aged Ovariectomized rat Model. *Journal of Food Science: Toxicology and Chemical Food Safety*, 82 (9):2192-2205.
149. Jiang, G., Xiao, L., Yan, H., Zhang, D., Wu, F., Liu, X., Su, X., Dong, X., **Wang, J.**, Duan X., Jiang, Y. (2017). Redox regulation of methionine in calmodulin affects the activity levels of senescence-related transcription factors in litchi. *Biochimica et Biophysica Acta-General Subjects*, 1861:1140-1151.
148. Li, T., Jiang, G., Qu, H., Wang, Y., Xiong Y., Jian, Q., Wu, Y., Duan, X., Zhu, X., Hu, w., **Wang, J.**, Gong, L., Jiang Y. (2017). Comparative Transcriptome Analysis of *Penicillium citrinum* Cultured with Different Carbon Sources Identifies Genes Involved in Citrinin Biosynthesis. *Toxins* 2017, 9, 69; doi:10.3390/toxins9020069
147. Ji, J., Cui, F., Pi, F., Zhang, Y., Li, Y., **Wang, J.-S.**, Sun, X. (2017). The antagonistic Effect of Mycotoxins Deoxynivalenol and Zearalenone on Metabolic Profiling in Serum and Liver of Mice. *Toxins* 2017, 9(1), 28; doi:10.3390/toxins9010028

146. Feng, W.-H., Xue, K. S., Tang, L., Williams, P. L., **Wang, J.-S.** (2017). Aflatoxin B₁-induced developmental and DNA damage in *Caenorhabditis elegans*. *Toxins* 9(1), 9; doi:10.3390/toxins9010009.
145. Ma, M., Pi, F., **Wang, J.-S.**, Ji, J., Sun, X. (2017). New insights into cytotoxicity induced by microcystin-LR, estradiol, and ractopamine with mathematical models: Individual and combined effects. *Chemosphere* 168:223-233.
144. Xue, K. S., Cai, W., Tang, L. Wang, J.-S. (2016). Aflatoxin B₁-lysine adduct in dried blood spot samples of animals and humans. *Food Chem Toxicol.* 98:210-219.
143. Yang, Z.D., **Wang, J.-S.**, Tang, L., Sun, X., Xue, K. (2016). The reproductive toxic effects of zearalenone on *Caenorhabditis elegans*. *Asian Journal of Ecotoxicology.* 11(6):23-30. DOI:10.7524/AJE.1673-5897.20160306002.
142. Yang, Z.D., **Wang, J.-S.**, Tang, L., Sun, X., Xue, K. (2016). Transgenerational comparison of developmental and reproductive toxicities in zearalenone exposed *Caenorhabditis elegans*. *Asian Journal of Ecotoxicology.* 11(4):900-905, DOI:10.7524/AJE.1673-5897.20160229003.
141. Qian, G., Tang, L., Lin, S., Xue, K. S., Mitchell, N. J., Su, J., Gelderblom, W. C., Riley, R. T., Phillips, T. D., **Wang, J.-S.** (2016). Sequential dietary exposure to aflatoxin B₁ and fumonisin B₁ in F344 rats increases liver preneoplastic changes indicative of a synergistic interaction. *Food Chemical Toxicology*, 95:188-195.
140. Wang, X. C., Fan, H. X., Fan, M. X., Li, F. H., Feng, S. B., Li, J. C., Wu, J. J., Li, Y., **Wang, J.-S.** (2016). A sensitive immunochromatographic assay using colloidal gold-antibody probe for rapid detection of fumonisin B₁ in corn. *Food Addit Contam Part A.* 33(9):1435-1443. DOI: 10.1080/19440049.2016.1213429
139. Pollock, B. H., Elmore, S., Romoser, A, Tang, L., Kang, M.-s., Xue, K., Rodriguez, M., Dierschke, N. A., Hayes, H. G., Hansen, H. A., II, Guerra, F., **Wang, J.-S.** and Phillips, T. (2016). Intervention trial with calcium montmorillonite clay in a south Texas population exposed to aflatoxin. *Food Additives & Contaminants: Part A.* 33 (8):1346-1354.
138. Chen, L., Mo, H., Zhao, L., Gao, W., Wang, S., Cromie, M. M., Lu, C., Jia-Sheng **Wang, J.-S.**, Shen C. L. (2016). Therapeutic properties of green tea against environmental insults. *J. Nutri. Biochem.* 40:1-13.
137. Wang, J., Tang, L., Glenn, T. C., and **Wang, J.-S.** (2016). Aflatoxin B₁ induced compositional changes in gut microbial communities of male F344 rats. *Toxicol Sci.* 150 (1): 54-63.

136. Xue, K. S., Tang, L., Cai, Q., Shen, Y., Su, J. & **Wang, J.-S. (2015)**. Mitigation of fumonisin biomarkers by green tea polyphenols in a high-risk population of hepatocellular carcinoma. *Scientific Reports*. 5:17545, DOI: 10.1038/srep17545.
135. Yang, Z., Xue, K. S., Sun, X., Tang, L. **Wang, J.-S (2015)**. Multi-toxic endpoints of the foodborne mycotoxins in nematode *Caenorhabditis elegans*. *Toxins* 7, 5224-5235. Doi:10.3390/toxins7124876.
134. Osuret, J., Musinguzi, G., Mukama, T., Halage, A. A., Natigo, A. K., Ssempebwa, J. C. and **Wang, J.-S. (2015)**. Aflatoxin contamination of selected staple foods sold for human consumption in Kampala Markets, Uganda. *J. Biol Sci.* ansinet, 2015 ISSN 1727-3048, DOI: 10.3923/jbs.2015.
133. Kang, M-s., Nkurunziza, P., Muwanika, R., Qian, G., Tang, L., Song, X., Xue, K., Nkwata, A., Ssempebwa, J., Lutalo, T., Asiki G., Serwadda, D., Seeley, J., aleebu, P., Nalugoda, F., Newton, R., Williams, J. H. and **Wang J.-S. (2015)**. Longitudinal evaluation of aflatoxin exposure in two cohorts in south-western Uganda. *Food Additives & Contaminants Part A*. 32(8):1322-1330.
132. Leroy, J. L., **Wang, J.-S.**, Hoffman, V., Jones, K., Ruel, M. (2015). Serum Aflatoxin B₁-lysine adduct level in adult women from Eastern Province in Kenya strongly depends on household socio-economic status. *Social Science & Medicine*, 146:104–10.
131. Sabran, M. R., Sukhini, M., **Wang, J.-S.**, Zuraini, A., Kang M-s, Nurul A. R., Elham, N., Jamaluddin, R. B. (2015) Effect of supplementation of fermented milk drink containing probiotic *Lactobacillus casei Shirota* on the concentrations of aflatoxin biomarkers among employees of Universiti Putra Malaysia: a randomized, double-blind, cross over, placebo-control study. *British Journal of Nutrition*, doi:10.1017/S0007114515004109
130. Wang, J., Tang, L., and **Wang, J.-S. (2015)**. Biomarkers of dietary polyphenols in cancer studies: Current evidence and beyond. *Oxidative Med. Cell. Longevity*. volume 2015, Article ID 732302, 14 pages <http://dx.doi.org/10.1155/2015/732302>.
129. Ndejjo, R., Musinguzi, G., Yu, X., Buregyeya, E., Musoke, D., **Wang, J.-S.**, Abdullah Ali Halage, A. A., Whalen, C., Bazeyo, W., Williams, P. and Ssempebwa, J. (2015) Occupational Health Hazards Among Healthcare Workers in Kampala, Uganda. *J. Environ. Public Health*. Volume 2015, Article ID 913741, 9 pages; <http://dx.doi.org/10.1155/2015/913741>
128. Huang, G-L., Yang, L., Su, M., Wang, S-K., Yin, H., **Wang, J.-S.**, Sun, G-J. (2014). Vitamin D3 and Beta-carotene Deficiency is Associated with Risk of Esophageal Squamous Cell Carcinoma in a China Case-control Study. *Asian Pacific J. Cancer Prev.* 15 (2):1-4, DOI:<http://dxdoi.org/10.7314/apjcp.2014.15.2>.
127. Shen, C.-L., Syapin, P. J., Graef, J. L., Smith, B. J., Brackee, G., Fowler, A. K., Segura-Ulate, I., **Wang, J.-S.**, Bergeson, S. E. (2014). Alcohol-induced Bone Loss and Quality

during adolescence is Improved by Green Tea Polyphenols. *J. Clinic Toxicol.* 4:1
doi:10.4172/2161-0495.1000179.

126. Schwartzbord, J., Brown, D. L., Pape, J. W., Verdier, R-I., Filbert, M., **Wang, J.-S.** (2014). Aflatoxin-Lysine Adducts in Haitian Patients Ingesting Peanut and Maize Products. *Journal of Hunger and Environmental Nutrition.* 5/2014, 9(2),
DOI: 10.1080/19320248.2013.816990
125. Mitchell,N. J., Xue, K. S., Lin, S., Marroquin-Cardona, A., Brown, K. A., Elmore, S. E., Tang, L., Gelderblom, W. C. A., **Wang, J.-S.**, Phillips, T. D. (2014). Calcium montmorillonite clay reduces AFB1 and FB1 biomarkers in rats exposed to single and co-exposures of aflatoxin and fumonisin. *J. Appl Toxicol.* 34(7): 795-804
124. Sabran, M. R., Jamaludin, R. B., Mohd Sokhini, A. M., Nurul Aqilah, A. R., **Wang, J.-S.**, Kang, M.-S., Zuraini, A. (2014). Detection of Serum AFB1-Lysine Adduct in Malaysia and Its Association with Liver and Kidney Functions. *Int J. Hyg. Environ Health.* 217:443-451
123. Qian, G., Tang, L., Guo, X., Wang, F., Massey, M.E., Su, J., Guo, T.L., Williams, J.H., Phillips, T.D., and **Wang, J.-S.** (2014). Aflatoxin B₁ Modulates the Expression of Phenotypic Markers and Cytokines by Splenic Lymphocytes of Male F344 Rats. *J. Appl Toxicol*, 34 (3), 241-249.
122. Phisitkul S, Chyu MC, Zhang Y, Brismée JM, Prabhakar S, Dagda RY, Dagda M, Tang L, **Wang J.-S.**, Shen CL. (2013) Intradialytic modified Tai Chi exercise among end-stage renal disease patients undergoing hemodialysis: an exploratory pilot study. *Alternative and Integrative Medicine* 2:123. doi:10.4172/2327-5162.1000123
121. Commodore, A. A., Zhang, J., Chang, Y., Hartinger, S. M., Lanata, C. F., Mäusezahl, D., Gil, A. I., Hall, D. B., Aguilar-Villalobos, M., Vena, J. E., **Wang, J.-S.**, Naehrer, L. P. (2013) Concentrations of Urinary 8-Hydroxy-2'-deoxyguanosine and 8-isoprostane in Women Exposed to Woodsmoke in a Cookstove Intervention Study in San Marcos, Peru. *Environment International.* 60:112-122..
120. Shen, C.-L., Chyu, M.-C., **Wang, J.-S.** (2013). Tea and Bone Health: Steps Forward in Translational Nutrition. *Am. J. Clinic Nutrition*, doi: 10.3945/ajcn.113.058255.
119. Mitchell,N. J., Kumi, J., Johnson, N. M., Dotse, E., Marroquin-Cardona, A., **Wang, J.-S.**, Jolly, P.E., Williams, J. H., Ankrah, N-A., Phillips, T. D. (2013). Inclusion of Uniform Particle Size NovaSil Clay in food and its effects on palatability and aflatoxin bioavailability in a crossover study in Ghana. *Biomarkers.* 18(5)391-398.
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1. **Wang, J.-S.**, Qian, G.-S., Zhu, Y.-R., Zarba, A., Munoz, A., Kensler, T. W. and Groopman, J. D. (1995) Temporal patterns and persistence of aflatoxin-albumin adducts in residents of Daxin Township, Qidong, PRC, *Proc. AACR* 36:1682

CURRENT FUNDED AND ACTIVE RESEARCH GRANTS:

1. AID-OAA-G-14-00003 Wang (PI) 02/14/2014-02/13/2020
USAID via Tufts University \$360,000
Aflatoxins and Child Nutrition in Africa
2. AID-OAA-G-14-00002 Wang (PI) 02/14/2014-02/13/2020
USAID via Tufts University \$821,325
Aflatoxins and Child Nutrition in Asia

PENDING RESEARCH GRANTS:

1. 1 RO1 AI 34232-01A1 Griffiths (PI) 01/01/2019-12/31/2023
Does HIV Antiretroviral Therapy Increase Aflatoxin Exposure?
Role: Co-investigator and UGA site PI \$882,000 (Wang)

The major goal of this grant is to study if antiretroviral therapy for HIV infection can increase aflatoxin exposure in Uganda cohort.

2. 1 R01 ES022958-01A Phillips (PI) 01/01/2019-12/31/2023
Mitigation of environmental risk factors for disease in Ghana
Role: Co-I (Budget: \$432,601)

The major goal of this grant is to investigate the role of combinative environmental toxicants in human disease and test various enterosorbent prevention strategies.

3. US NSF EEID Cardwell (PI) 04/01/2019-03/31/2022
Ecology and Evolution of Aflatoxicosis
Role: Co-PI (budget: \$500,000)
4. USAID Mozambique Web (PI) 05/01/2019-04/30/2022
Children Health Study for Nutrition and Growth Stunting
Role: Co-Investigator and UGA site PI (\$200,000)

COMPLETED AND PARTICIPATED RESEARCH GRANTS (in USA only):

27. ECG-A-00-13-00001-00 Wang (PI) 10/01/2013-09/30/2017
USAID/ Peanut & Mycotoxin Innovation laboratory \$780,000
Development and validation of methods for detection of mycotoxins exposure in dried spotted blood samples
26. UNICEF, UN Wang (PI) 01/01/2014-07/31/2017
Evaluation of Aflatoxin Role in Children Nutritional Deficiencies in East Timor
\$118,000
Collaborative Project with University of Indonesia and Tufts University

25. Research Triangle Institute **Wang (PI)** 08/01/2017-12/31/2017
IFPRI \$240,000
Aflatoxin exposure in Kenya children

24. 1R24TW009489-01 **Wang (PI)** 09/01/2012-08/31/2015
NIH Fogarty Center/NIEHS \$300,000
Planning for a GEOHealth Research and Training Hub in Uganda-United States

The major goal is to set up a GEOHealth program in Eastern Africa which will act as a center for EOH research and Training.

23 Distinguished Cancer Scholar **Wang (PI)** 07/01/2009-06/30/2015
Georgia Cancer Coalition \$750,000
Cancer Prevention and Control

The major goal of this award is to establish cancer prevention and control program at UGA.

22 1R01MD005819-01 (Phillips/Wang/Guerra) 07/01/10-06/30/15
NCMHD \$1,650,000
Prevention of Hepatocellular Carcinoma in Vulnerable Communities in Texas

The major goal of this research is to provide clay-based dietary therapies that will improve liver cancer management in high risk (and underserved) populations by reducing exposure to aflatoxins.

Role: **Co-PI**, PI at UGA

21 1U01AT006691-01 Shen (PI) 09/30/12-06/30/15
NCCAM/NIH \$1,700,000
Preparation for GTP long-term clinical study on bone health
Role: Co-investigator and PI at UGA

The major goal is to study dose-response of green tea polyphenols in animals and humans to prepare for a long-term human intervention study for bone health

20. ECG-A-00-07-00001-00 **Wang (PI)** 07/01/2008-12/31/2013
USAID/Peanut CRSP \$990,000
Development of methods for establishing a global network for aflatoxin exposure

The major goal of this project is to develop analytical method for measurement of blood samples collected from world-wide and to establish a global aflatoxin exposure network using biomarker as approach.

19. 1R21 ES017845-01A Naeher (PI) 10/01/2010-09/30/2013
NIH/NIEHS \$570,000
Biomarkers of exposure to and health effects from SHS in outdoor smoking areas
Role: Co-investigator

18. 1R21AT003735-01A1 (Shen, PI) 09/01/2007-08/31/2011
NCCAM/NIH \$572,720/whole period
GTP and Tai Chi for Bone Health: a Pilot Study

The major goal of this project is to conduct a clinical trial for assessing Tai Chi and green tea polyphenols in enhance bone health in women.

Role: **UGA-PI**

17. 1 RO1 CA 90997-06 **Wang (PI)** 06/16/03 – 08/31/2010
NCI/NIH \$1,834,573/whole project
Chemoprevention of green tea polyphenols on liver cancer

The major goal of this project is to study chemopreventive effect of green tea polyphenols on reducing various carcinogen biomarkers and incidence of primary liver cancer in a 5-year clinical trial in 1,800 high-risk people.

16. W911SR-07-C-0069 9/1/2007-8/31/2010
RDECOM, DOD \$500,000
Molecular Mechanisms of Combinative Toxicity of Biotxin Mixtures (Phase II)
Role: **PI**

15. “Effect of green tea polyphenols on bone loss and atherosclerosis.” Shen CL (PI)
Women Health Research Institute, TTUHSC, \$20,000, 9/1/2007-8/31/2009.
Role: **Co-PI**

14. “Effect of green tea polyphenols on bone loss in aged estrogen-deficient female rats.”
Shen CL (PI), Lubbock Endowed Professorship. \$20,000, 1/1/06-12/31/06.
Role: **Co-PI**.

13. “Effect of green tea polyphenols on breast cancer survivors: a pilot study.” Shen CL (PI)
Southwest Cancer Treatment and Research Center, \$15,000, 1/1/06-12/31/07.
Role: **Co-PI**.

12. W911SR-04-C-0050 9/1/2005-8/31/2007
RDECOM, DOD \$550,000
Molecular Mechanisms of Combinative Toxicity of Biotxin Mixtures
Role: **PI**

11. R21 CA94683-03 **Wang (PI)** 10/01/01 – 8/31/05
NCI \$182,500/first year; \$547,500/whole project
Validation of Fumonisin and Microcystin Biomarkers

10. DAAD13-02-C-0070 10/01/02 – 03/31/04
SBCCOM, DOD \$642,560
Combinative Toxicity of Biotxin Mixtures

Role: **PI**

9. RO3 ES11442 09/01/02 – 08/31/03
NIEHS \$73,000/year; \$146,000/whole project
Modulation of Oxidated Damage by Tea Polyphenols
Role: **PI**
8. DAAD13-01-C-0053 10/01/01 – 03/31/03
SBCCOM, DOD \$434,564/year
Combinative Toxicity of Biotoxin Mixtures
Role: **PI**
7. DAAD13-00-C-0056 10/01/2000-09/30/2001
SBCCOM, DOD \$499,999
Combinative Toxicity of Biotoxin Mixtures
Role: **PI**
6. Molecular Biomarkers For Environmental Carcinogens, 1993-1997; 1997-2002, NIEHS
P01 ES06052. Role: Co-investigator
5. Training Program in Environmental Health Sciences, 1994, NIEHS (Grant No. ES07141);
Recipient
4. Neutrophil Studies, 1986-1991, NHLBI (Grant No.HL 33565); Key Personnel.
3. Mechanisms of Regulation of Actin-based Microfilaments, 1991-1995, NIGMS (Grant
No. GM37590); Key Personnel
2. Studies of Fossil Fuel Combustion Products, 1988-1993 NIEHS (Grant No. P01-
ES01640); Co-Investigator.
1. Trichothecene Mycotoxin Studies, 1983-1987, United States Army Medical Research and
Development Command (Contract No. DAMD17-85-C-5208); Key Personnel.

INTERNATIONAL AND NATIONAL PRESENTATIONS (Since 2008-):

Invited Seminar and Meeting Presentations in 2018:

SOT Translational Impact Award Lecture, March 12, 2018, San Antonio, TX

Title: Modulation of Toxic Effects and Human Disease Risks: from synthetic drugs to natural products

Five Presentations in the Society of Toxicology 2018 Annual Meeting at San Antonio, Texas, March 10-14, 2018.

- Title 1: Application of dry blood spots method for aflatoxin exposure studies in children with growth stunting
- Title 2: Assessment of aflatoxinB1-induced adverse impacts on nutritional compositions of gut-microbial metabolome in F344 male rats
- Title 3: Polyphenol oxidase/caffeic acid reduces the allergenicity of ovalbumin in a Balb/c mouse model
- Title 4: Aflatoxin exposure in children of eastern Province, Kenya.
- Title 5: Genome-wide identification of mutational signature related to the toxicity of AFB1 and FB1 mixtures using *Caenorhabditis elegans* model.

Invited seminar by Chinese Academy of Science South China Plant Center, Guangzhou, China, in January 11, 2018.

Title: Mycotoxin Research for 40 years

Invited seminar by South China Agricultural University, Guangzhou, China, January 10, 2018

Title: Interactions of Co-exposure to aflatoxins and fumonisins.

Invited Seminar by South China Science and Technology University, January 9, 2018, Guangzhou, China

Title: Modulation of human liver cancer risks by natural food components

Invited Seminar and Meeting Presentations in 2017:

An invited Keynote presentation in International Symposium on Memory of Professor Da-Dao Xu, the Pioneer of Nutrition and Food Safety in China in Shanghai, China, December 9-10, 2017

Title: Continuing Mycotoxin Research for 40 years Following Professor Xu's Directions.

An invited Keynote presentation in International Symposium on Safety Issues on Food Packaging Materials in Wuxi, China, in November 8-10, 2017.

Title: Safety in Food Packaging Materials: An Update.

An invited Keynote presentation in International Symposium on Detections of Environmental, Food and Pharmaceutical Contaminants in Wuxi, China, in November 4-5, 2017.

Title: Integration of Biomarkers into Detection and Risk Assessment of Environmental/Food Contaminants and Pharmaceutical Residues.

An invited Presentation in Tokyo University of Technology, Tokyo, Japan, in September 21, 2017.

Title: Environmental and Genetic Interactions on Human Esophageal Carcinogenesis in Huaian, China.

An invited presentation in Jiangnan University, Wuxi, China, in June 2, 2017:

Title: Food Safety and Its Impacts on Health

An invited presentation in Joint Conference between US and Japan Governments on Food Safety, College Park (FDA Facility), Maryland, May 6-18, 2017:

Title: Toxicological Interactions of Co-Exposure to Aflatoxins and Fumonisin.

A presentation on UGA Center for Food Safety in Griffin, GA, in May 3, 2017.

Title: Toxicological Research on Food Chemical Toxicants.

A presentation on the International Symposium on Public Health with Jiangsu CDC, Nanjing, China, March 29-31, 2017.

Title: Emerging issues in Environmental Health Science

Five presentations in the Society of Toxicology 2017 Annual Meeting at Baltimore, Maryland, March 12-16, 2017.

Title 1: Multi-/Trans-Generational Study of Deoxynivalenol in *Caenorhabditis elegans*.

Title 2: Metabolomics Analysis on Gut Microbiota Functional Metabolites of F344 Rats Exposed to Aflatoxin B1.

Title 3: The Dynamics of Gut Microbiome in Response to Long-Term Treatment with Green Tea Polyphenols in Rats.

Title 4: Detection of Aflatoxin B1-Lysine Adduct in the Dried Blood Samples from a High-Risk Area of Children Growth Stunting.

Title 5: Interaction of Co-Exposure to Aflatoxin B1 and Fumonisin B1 on the Risk of Human Esophageal Cancer in Huaian City, China.

Invited Seminars and Meeting Presentations in 2016:

Five Presentations in the Society of Toxicology 2016 Annual Meeting at New Orleans, Louisiana, March 12-16, 2016.

Title 1: Validation of Dried Blood Spot Method for Detection of Aflatoxin B1-Lysine Adduct in Animals and Humans.

Title 2: Transgenerational Effects of Aflatoxin B1 on the Nematode *Caenorhabditis elegans*.

Title 3: Longitudinal Aflatoxins Exposure in Pregnant Women in East Kenya.

Title 4: Current Status of Aflatoxin B1 Contamination in Grains and Peanuts Grown in the State of Georgia, USA.

Title 5: Metagenomics Analysis of Phylogenetic and Functional Genomic Changes in Rat Gut Microbiota Induced by Green Tea Polyphenols.

2. Invited presentation in Shanghai Pudong CDC, Shanghai, China, March 25, 2016.

Title: Changes of Food Safety Policy and Regulation in USA.

7. Invited presentation in Nanchang University, Nanchang, Jiangxi Province, China, April 5, 2016.

Title: Advances in Food Safety and Food Toxicology.

8. Invited presentation in Southeast University, Nanjing, Jiangsu Province, China, May 26, 2016.

Title: Public Health: from Biomedical Sciences to Behavioral and Social Sciences

9. Invited presentation in Jiangnan University, Wuxi, Jiangsu Province, China, June 3, 2016.

Title: Food Toxicology and Food Safety: an Update

10. Invited presentation in Nanyang Polytech University, Singapore, September 10, 2016

Title: Risk Assessment of Food Hazard Mixtures: Gaps and Challenges

11. Invited presentation in National Symposium of Food Processing and Waste Utilization, Hangzhou, Zhejiang Province, November 30, 2016

Title: Safety of fruits and Vegetable Processing: Old Issues and New Challenges

12. Invited presentation in Zhenjiang Academy of Agricultural Sciences, Hangzhou, Zhejiang Province; December 1, 2016.

Title: Advances in Researches of Mycotoxin and Mycotoxicoses

Invited Seminars and Meeting Presentations in 2015:

1. Invited Plenary Seminar Speaker by the American Phytopathological Society in August 2-4, 2015, Pasadena, California, USA

Title: Human Health Effects of Mycotoxins: Advances and Updates.

2. Invited Seminar in International Symposium of Cancer System Biology, Jilin University, July 11-12, 2015, Changchun, Jilin, China

Title: Environmental and Genetic Interactions in Human Carcinogenesis.

3. Invited Seminar in Rwanda Agricultural Board, RAB Research Center, June 26, 2015, Kigali, Rwanda.

Title: Assessment of Global Human Aflatoxin Exposure via a Biomarker Approach.

4. Progress Report Speaker in the USAID PMIL Annual International Partner Meeting, June 20-23, 2015, Cape Haitian, Haiti.

Title: Development and Validation of Methods for measurement of Mycotoxin Exposure in Dried Blood Spot Samples.

5. Invited Seminar in Jiangsu CDC, April 3, 2015, Nanjing City, Jiangsu Province, China

Title: Roles of Chemical and Viral Interactions in Etiology and Pathogenesis of Human Chronic Diseases

6. Invited Seminar in Wuxi CDC, April 2, 2015, Wuxi City, Jiangsu Province, China

Title: Environmental Cause of Human Diseases: Possible Collaborations

- 7-11. Five Presentations in the Society of Toxicology 2015 Annual Meeting at San Diego, CA, March 22-26, 2015.

Title 1: Aflatoxin B1-induced gut microbiome changes in male F-344 rats.

Title 2: Synergism of fumonisin and aflatoxin toxicity and the underlying mechanism in Nematode, *Caenorhabditis elegans*.

Title 3: Aflatoxin Exposure in Mothers and Children in East Timor.

Title 4: Aflatoxin B1 Exposure Modulates HIV to AIDS Pathogenic Progression.

12. Plenary presentation in FASEB Annual Meeting, April 25, 2015.

Title: A 6-month chronic toxicity study on green tea polyphenols in middle-aged ovariectomized rats.

Invited Seminars and Meeting Presentations in 2014:

Invited seminar speaker by West Virginia University in September 24, 2014, Morgantown, WV, USA

Title: Application of Fumonisin Biomarkers for human disease studies.

Invited Seminar in National Center for Food Quality and Safety, Chinese Academy of Agricultural Sciences, May 23, 2014, Beijing, China

Title: Combinative Toxicity Studies of Multiple Mycotoxin Mixtures.

Invited Seminar in National Cancer Institute, Chinese Medical Academy, May 22, 2014, Beijing China

Title: Advances in Liver Cancer Etiology and Prevention

Invited speaker in International Conference of Mycotoxin Research, May 21, 2014, Beijing, China.

Title: Global Aflatoxin Exposure and Human Health Effects.

Invited Seminar in Guilin Medical College School of Public Health, May 18, 2014, Guilin, Guangxi, China

Title: Cancer Etiology and Prevention

Invited Seminar in Guangxi Cancer Institute/Guangxi Medical University, May 16, 2014, Nanning, Guangxi, China

Title: Environmental Cause of Human Cancer

Invited Seminar in Shanghai Pudong New Area CDC, May 15, 2014

Title: Emerging Global Environmental Health Issues

Six Presentations in the Society of Toxicology 2014 Annual Meeting at Phoenix, AZ, March 20-24, 2014.

Title 1: Development of Method for Detection of AflatoxinB1-Lysine Adduct in Dried Blood Spot Samples.

Title 2: Biomarker of Aflatoxin Exposure in Bexar and Surrounding Counties: Enhanced Incidence in Humans following Severe Drought.

Title 3: Identification of Methylated and Microbial Metabolites of Green Tea Polyphenols in Humans.

Title 4: Increased Aflatoxin Exposure in Human Populations Residing in West and East Texas, USA.

Title 5: Aflatoxin Exposure Associates with Abnormal Liver Function and Infections with HIV and TB in Uganda.

Title 6: Disruption of Collagen Biosynthetic Pathway is a Key Mechanism in Zearalenone-Induced Reproductive and Developmental Toxic Effects in *Caenorhabditis elegans*.

Invited Speaker in the NIH Global Environmental and Occupational Health Principal Investigators Network Meeting, February 25, 2014.

Title: Planning a GEOHealth Hub in Eastern Africa with Base in Uganda.

Invited Seminars and Meeting Presentations in 2013:

Invited Seminar at School of Public Health, Makerere University, December 3, 2013, Kampala, Uganda.

Title: Association Studies of Aflatoxin Exposure , Human Immunity and Infectious Diseases in Ghana and Uganda

Invited Seminar at Zhejiang GongShan University, Hangzhou, China in May 10, 2013

Title: Validation of Mycotoxin Biomarkers for Human Health Studies

Award Presentation at the Society of Toxicology 2013 Annual Meeting at San Antonio TX, March 11, 2013. (Distinguished Chinese Toxicologist Lectureship Award)

Title: Application of Biomarkers: Bridging Toxicology and Disease Prevention

Seven Presentations in the Society of Toxicology 2013 Annual Meeting at San Antonio TX, March 10-14, 2013.

Title I. Modulation of Co-carcinogenic Effect of Aflatoxin B1 and Fumonisin B1 in a Short-Term Bioassay by Uniform Particle Size NovaSil Clay.

Title II. Validation of Co-carcinogenic Effects of Aflatoxin B1 and Fumonisin B1 in a Short-Term Bioassay.

Title III. Developmental and Reproductive Toxicity of Fusarium Mycotoxins in the Nematode *Caenorhabditis Elegans*.

Title IV. Mitigation of Fumonisin Biomarkers by Green Tea Polyphenols.

Title V. Integrative Toxicopathological Evaluation of Aflatoxin B1 Exposure in F344 Rats.

Title VI. Aflatoxin Exposure in Human population of Uganda.

Title VII. Dietary Inclusion of Montmorillonite Clay Mitigates Bioavailability of Aflatoxin, Fumonisin and Aflatoxin/Fumonisin Mixtures in Fischer 344 Rats.

Invited Seminars and Meeting Presentations in 2012:

Invited Seminar in Jiangsu CDC, June 14, 2012.

Title: Advances and Hot Points in Food Safety.

Invited Seminar in Jiangnan University, June 12, 2012.

Title: Global Climate Changes and Food Safety

Invited seminar in American Corn Association Conference at Indianapolis, IN, June 4-6, 2012.

Title: Global Aflatoxin Exposure in Human Populations

Three presentations in the Society of Toxicology 2012 Annual Meeting at San Francisco, CA, March 11-15, 2012.

Title I. Effects of aflatoxin B1 on the immune phenotypes and cytokine secretions of spleen lymphocytes in Fischer 344 rats.

Title II. Validation of a nonantibody method for detection of serum aflatoxin B1-lysine adduct in Fischer 344 rats.

Title III. UPSN included in food reduces aflatoxin bioavailability in a crossover study in Ghana.

Invited Seminars and Meeting Presentations in 2011:

Invited Seminar at Jiangnan University, June 5, 2011

Title: Active Food Components and Disease Prevention

Invited seminar at International Conference of Food Science and Safety at Hangzhou, China, May 26-28, 2011

Title: New Development in Food Safety and Its Regulations

Invited Presentation in MYCORED Africa 2011 Conference at Cape Town, South Africa, April 4-6, 2011

Title: Application of Immune Parameters in Aflatoxin Intervention Study with the NovaSil Clay in Ghanaians

One Presentation in American Association of Cancer Research 2011 Annual Meeting at Chicago IL, April 6-10, 2011

Title: Dietary Fumonisin B1 Exposure and Human Hepatocellular Carcinoma risk in Southern Guangxi Region, China.

Four presentations in the Society of Toxicology 2011 Annual Meeting at Washington, DC, March 6-10, 2011.

Title I. Combinative Toxicity of Mycotoxin Mixtures in Animals and Human Cells.

Title II. Modulation of Oxidative Damage Biomarkers in Postmenopausal Women by Green Tea Polyphenols and Tai Chi.

Title III. Aflatoxin Exposure in Rural Residents of Burkina Faso, West Africa.

Title IV. Comparative Reproductive and Developmental Toxicity of AflatoxinB1 in the Wild and Mutants of Nematode caenorhabditis Elegans.

Invited Seminars and Meeting Presentations in 2010:

Keynote Speaker, VI Latin American Congress of Mycotoxicology and International Symposium on Algal and Fungal Toxins, June 27 to July 1, 2010, Merida Yucatan, Mexico.

Title: Validation of Fumonisin Biomarkers for Human Diseases Studies

Invited Seminar at Jiangnan University, June 8, 2010

Title: Research Progress in Mycotoxin Studies

Invited Seminar at Wuxi CDC, April 20, 2010

Title: Advance in Environmental Health Sciences

Five presentations in the Society of Toxicology 2010 Annual Meeting at Salt Lake City, UT, March 7-11, 2010.

Title I. Initiation of global network for aflatoxin exposure studies.

Title II. Development of a non-antibody method for rapid detection of serum aflatoxin B1-lysine adduct.

Title III. Association between tortilla, peanut, and rice consumption and urinary aflatoxin M1 levels in a US population with elevated incidence of liver cancer.

Title IV. Toxic effects of aflatoxin B1 to the development, reproduction, and behavior of the nematode *Caenorhabditis elegans*.

Title V. Oxidative DNA damage and human esophageal cancer risk in Huaian, China.

Invited Seminars and Meeting Presentations in 2009:

Invited Plenary Lecture, 5th National Congress of The Chinese Society of Toxicology, August 10-13, 2009, Guiyang, China

Title: Current Status and Research Advances in Food Safety and Food Toxicology

Invited Seminar at Jiangnan University, June 10, 2009

Title: Advanced in Current Research on Food Safety

Invited Seminar at Wuxi Association of Preventive Medicine, June 5, 2009

Title: Food Safety and Foodborne Diseases

Two presentations in the American Association for Cancer Research 2009 Annual Meeting at Denver, CO, April 12-16, 2009

Title I. Dietary fumonisin B1 exposure and human esophageal cancer risk in Huaian, China: Use of urinary free fumonisin B1 as biomarker of exposure.

Title II. Long-term green tea polyphenol intervention decreases aflatoxin biomarker levels in a high-risk population for liver cancer.

Six presentations in the Society of Toxicology 2009 Annual Meeting at Baltimore, MD, March 15-19, 2009.

Title I: Serum level of aflatoxin B1-lysine adduct in a US population compared to a high risk population in China. Toxicologist, 104, 755.

Title II. Initial evaluation of protein expression patterns in human liver cells treated with aflatoxin B1.

Title III. Identification of autoantibodies against tumor-derived antigens as biomarkers for the diagnosis of esophageal cancer.

Title IV. Up-regulation and nuclear accumulation of p53 protein in human bronchial epithelial cell exposed to 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone, NNK.

Title V. Urinary M1 and 1-hydroxypyrene levels in a US population compared to a high risk population in Ghana. Toxicologist, 104, 1206. NovaSil clay intervention in Ghanaians at high risk for aflatoxicosis: Immune parameters as biomarker of effect

Title VI. Predominance of aflatoxin exposure in rural residents of Southern Guangxi, China.

Invited Seminar by the United State Agency for International Development at Washington, DC, in January 14, 2009

Title: Aflatoxin exposure and nutrition in developing countries

Invited Seminars and Meeting Presentations in 2008:

Invited Seminar by the Indiana University Cancer Center at Indianapolis, IN, in November 13, 2008

Title: Modulation of Human Liver Cancer Risks by Natural Dietary Components

Invited Seminar by the International Conference of Doctoral Students in Food Science and Technology at Wuxi, China in October 24-26, 2008

Title: Current Status and Research Advances of Food Safety in the United States

Invited Seminar by MD Anderson Cancer Center at Houston, TX, in July 9, 2008

Title: Chemoprevention of Cancer with Natural Dietary Components

Invited Seminar by Emory University School of Medicine and cancer Center, Atlanta, GA in June 20, 2008

Title: Chemoprevention of liver cancer by green tea polyphenols

Four presentations in the American Association for Cancer Research 2008 Annual Meeting at San Diego, CA, April 12-16, 2008

Title I: Interaction between phenotypic oxidative DNA damage biomarker and polymorphic DNA repair genes in high-risk population for liver cancer

Title II: Long-term green tea polyphenol intervention decreases urinary 8-hydroxydeoxyguanosine levels in a high-risk population for liver cancer

Title III: Interactions between environmental carcinogen exposure and genetic polymorphisms in human esophageal carcinogenesis

Title IV: Antibody Microarray Analysis of Serum Glycans in Esophageal Squamous Cell Carcinoma Cases and Controls

Six presentations in the Society of Toxicology 2008 Annual Meeting at Seattle, WA, March 16-20, 2008.

Title I: NovaSil clay intervention in Ghanaians at high risk for aflatoxicosis: Immune parameters as biomarker of effect

Title II: Comparative and combinative cytotoxic effects of aflatoxin B₁ and fumonisin B₁ on human esophageal cells

Title III: Validation of urinary free fumonisin B₁ as a biomarker of exposure.

Title IV: Cytotoxicity and CRM1 down-regulation of 4-(methylnitro-samino)-1-(3-pyridyl)-1-butanone in human bronchial epithelial cell line

Title V: Urinary 1-hydroxypyrene: a biomarker for polycyclic aromatic hydrocarbon exposure in a Ghanaian population

Title VI: Aflatoxin exposure decreases serum levels of vitamins A&E in Ghanaians at high risk for aflatoxicosis

TEACHING & TRAINING ACTIVITIES:

Visiting Scientists Advised (Since 2002):

Xiaoling Ding, Professor of Food Sciences, Southern Yantze University, Summer 2002

Wenyng Guo, Professor of Food Sciences, Southern Yantze University, Summer 2002

Geng-Sun Qian, Professor of Shanghai Cancer Institute, Summer 2003

Meng Tang, Associate Professor of Southeast University, March 2003- June 2004

Shuang-Yuang Kuang, Research Scientist of Johns Hopkins University, August 2004

Jianjia Su, Professor of Guangxi Cancer Institute, June-August 2005; 2011-2012

Jiahua Yu, Associate Professor, Guangxi Cancer Institute, May 2005-2006

Guiju Sun, Professor and Chair, Southeast University, January-May 2007

Lifang Ma, Chief scientist, Shanghai Huangpu CDC, January-May 2007

Wenwei Liu, Section Leader, Wuxi CDC, January-August 2007

Yan Yang, Shanghai CDC, April 2007-March 2008

Philippe A. Nikiema, Fulbright Scholar from Burkina Faso, 2009

Xiaofeng Chen, Wuxi CDC, 2010

Xia Hong, Wuxi CDC, 2010

Yun Qian, Wuxi CDC, 2011
Shuhan Lin, Guangxi Cancer Institute, 2011-2013
Richard Muwanika, Uganda Raikai Health Program 2012-2013
Peter Nkurunziza, British Medical Research Council Uganda Unit, 2012-2013
Mohd Redzwan Sabran, Universiti Putra Malaysia, 2012-2013
Qichun Huang, Guangxi Cancer Institute, 2013
Rongfa Guan, China Jiliang University, 2013
Xiulan Sun, Jiangnan University, 2013
Limei Zhu, Jiangsu CDC, China, 2013-2014
Caoyi, Xue, Shanghai Pudong CDC, 2014
Chuchu Ye, Shanghai Pudong CDC, 2014
Xinliang Ding, Wuxi CDC, 2015
Weihong Feng, Wuxi CDC, 2015
Jiangang Zhou, Wuxi CDC, 2015
Cun Yang, Shanghai Pudong CDC, 2016
Xiaonan Ruan, Shanghai Pudong CDC, 2016
Hanzhao Liu, Shanghai Pudong CDC, 2016
Loveness K. Nyanga, University of Zimbabwe, 2017
Daniel Mwalwayo, Malawi Standard Institute, 2017
David Githanga, Kenya Association of Pediatrician, 2017
Xuewu Duan, Chinese Academy of Science, 2017
Ping Tong, Nanchang University, 2018

Postdoctoral Trainees:

Kathy S. Xue, PhD from University of Georgia, 2017-
Qichun Wang, PhD from Nanjing Agricultural University, 2015-2016
Liang Shen, PhD from University of Georgia, 2009-2010
Hongbo Ma, PhD from University of Georgia, 2009-2010
Haitao Luo, PhD from Texas Tech University, 2005-2006
Lili Tang, PhD from Fudan University, April 2002-2004
Heng-Qian Liu, PhD from Hong Kong University, November 2001-2004

Graduate Students Advised:

Graduated PhD Students

Dr. Guiju Sun (2000), currently serving as Department Chair of Nutrition and Food Safety, Southeast University, China.

Dr. Haitao Luo (2005), currently as an assistant professor in West Virginia University

Dr. Madhavi Billam (2006), currently as Research Director at Coty, Inc. New Jersey.

Dr. Fujun Liu (2006), currently as Study Director at Revlon, Inc., New Jersey.

Dr. Zemin Wang (2007), currently as a Research Scientist at Indiana University School of Public Health.

Dr. Qingsong Cai (2007), currently as an Instrument Specialist at CCRC, UGA.

Dr. Piwen Wang (2008), currently as an assistant professor at UCLA

Dr. Yuntian Tang (2008), currently as physician at Guangxi General Hospital, Nanning, Guangxi, China

Dr. Li Xu (2010), currently as a postdoctoral fellow at MD Anderson Cancer Center, Houston, TX.

Guoqing Qian (2012), currently as a postdoctoral fellow at Emory University Cancer Center, Atlanta, GA

Min-su Kang (2015), currently work as a postdoctoral fellow at Emory University

Zhendong Yang (2016), currently works at Shandong FDA

Jincheng Wang (2017), currently works as postdoctoral fellow at New York University

Kathy S. Xue (2017), currently works as postdoctoral associate at UGA

Jona Johnson (2017), currently works at US CDC

MS graduates

Hongxia Guan (2005), currently as an assistant professor at the West Illinois University.

Mr. Christopher Mckean (2003), currently as staff scientist at Department of Health, State of New Mexico

Shuhan Lin (2013), Guangxi Cancer Institute, Guangxi, China

Kabiru Summola (2015), University of Georgia

Armands Gay (2016), University of Georgia

Wenjie Cai (2018), University of Georgia

Current Graduate Students under Supervision

Jun Zhou, PhD student to be graduated in 2019

Ruth Wangia, PhD student to be graduated in 2020

Bowen Tang, PhD student to be graduated in 2021

Graduate Student Advisory Committee Member:

Jinqiu Zhu, PhD student (graduated)

Lixia Chen, PhD (graduated)

Changxia Shao, PhD (graduated)

Roland Eshiet, PhD (graduated)

Olorunfemi T. Adetona, (graduated)

Gideon St. Helen, PhD (graduated)

Adwoa Agyepong, PhD (graduated)

Shuo Xiao, PhD (graduated)

Zhoumeng Lin, PhD (graduated)

Kwaku Agyekum, PhD student (graduated)

Fei Zhao, PhD (graduated)

Rong Li, PhD (graduated)

Lu Qi, PhD (graduated)

Rahat Desai-Wadhwa, PhD (graduated)

Dean Meyers, PhD (graduated)

Tong Chen, PhD (graduated)

Anna H. Adetona, PhD (graduated)

Shenxuan Liang, PhD (graduated)

Shantao Liang, PhD (graduated)

Robert Williams, PhD (graduated)

Bela (Guannan) Huang, PhD, to be graduated in May 2018

Ryan Mote, PhD to be graduated in 2020

Courses Taught:

i). Principal Course Lecturer at TTU

ENTX 6326 Principles of Toxicology II, every spring semester 2001-2008

ENTX 6327 Molecular Toxicology, every fall semester 2001-2008

ENTX 6332 Toxic Effect and Detection Methods of Biotoxins, fall semester

ENTX 7000 Research, 2000-2008

ENTX 6000 Master Dissertation, 2000-2008

ENTX 8000 Doctoral Dissertation, 2000-2008

ii). Participation of Course Teaching

ENTX 6325 Principles of Toxicology I, every fall semester
ENTX 6431 Biomarkers in Toxicology, spring semester
ENTX 6427 Molecular Epidemiology and Chemoprevention, fall semester
TOX 6115 Environmental Toxicology Seminar, spring and fall semester

iii). Principal Course Lecturer at UGA

EHSC 7010 Fundamentals of Environmental Health Science (each spring)
EHSC 7490 Principles of Toxicology (each fall)
EHSC 8010 Advanced Environmental Health Science (each fall)
EHSC 8030 EHS Seminar (each semester)
EHSC 8100 Topics in Environmental Health
EHSC 8210 Cancer Etiology and prevention (each fall)
EHSC 8250 Biomarkers (each in other spring)
EHSC 8800 Special Problems in EHS
EHSC 7000 Master Research
EHSC 7300 Master Thesis
EHSC 9000 Doctoral Research
EHSC 9300 Doctoral Dissertation

iv). Participation of Courses Teaching at UGA

EHSC 2020 Introductory Environmental Health Science
EHSC 3700 EHS Internship
EHSC 4490 Environmental Toxicology
EHSC 4610/6610 Global Water Pollution
EHSC 6910 Introductory Toxicology
EPID 8200 Molecular Epidemiology
EPID 8410 Cancer Epidemiology
PBHL 7560 MPH Internship (Wuxi Site)
PBHL7800 MPH Capstone

UNIVERSITY/COLLEGE/DEPARTMENT SERVICES (2008-):

At University Level:

Member, University Promotion & Tenure Appeal's Committee (2015-2018)

Member & Chair (2016, 2017), University Special Professorship Committee, (2014-2017)

Member, University Facility Committee (2017-2020)

Member, Dean's Review Committee (2013)

At College Level:

Member, Executive Committee (2008-present)

Member & Chair (2013-2015), Promotion and Tenure Committee (2008-2015, 2016, 2018)

Member, Award Committee (2009-2010; 2016-2017)

Member, Research Advisory Committee (2008-2011)

Member, Search Committee for Associate Dean for Research (2009-2011)

Member, Post-tenure review committee and three year review committee for junior faculty members (variable years)

At Department and Program/Center Level:

Faculty Search Committee Chair (2009-2012)

Promotion and Tenure Committee Chair (2016-present)

Executive Committee Member for Interdisciplinary Toxicology Program (2008- present)

Admission Committee Member for Interdisciplinary Toxicology Program (2012-2016)

Organizing Committee Member for Center for Food Safety Annual Meeting (2015, 2016)

Organizing Committee Member for Cancer Center (2011, 2012).