

CURRICULUM VITAE

(Jianghong Meng)

Notarization. I have read the following and certify that this curriculum vitae is a current and accurate statement of my professional record.

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1. Personal Information

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Academic Background

Education

- 1983 DVM, Veterinary Medicine, Sichuan Agricultural University, China
- 1989 Master of Preventive Veterinary Medicine (MPVM), University of California, Davis
- 1992 Ph.D. Comparative Pathology (major: Microbiology and Public Health; minor: Pathology), University of California, Davis

1993 Postdoctoral Training, Center for Food Safety, University of Georgia

Additional Training

1996 Better Food Processing School, University of Maryland

1998 Food Thermal Process Development, National Food Processors Association, Dublin, California

2002 Advanced Bacterial Genetics, Cold Spring Harbor Laboratory, New York

2004 DNA Microarray, The Institute of Genomic Research, Rockville, Maryland

Employment Background

2009-present Director
Joint Institute for Food Safety & Applied Nutrition (JIFSAN)
University of Maryland, College Park, Maryland

2007-2009 Interim Director
Joint Institute for Food Safety & Applied Nutrition (JIFSAN)
University of Maryland, College Park, Maryland

2006-present Professor
Department of Nutrition and Food Science
University of Maryland, College Park, Maryland

2001-2006 Associate Professor
Department of Nutrition and Food Science
University of Maryland, College Park, Maryland

2001- 2004 Director, Graduate Program in Food Science
Department of Nutrition and Food Science
University of Maryland, College Park, Maryland

1996-2001 Assistant Professor
Department of Nutrition and Food Science
University of Maryland, College Park, Maryland

1992-1996 Postdoctoral Research Associate
Center for Food Safety & Quality Enhancement,
University of Georgia, Griffin, Georgia

1987-1992 Post Graduate Research Assistant
Department of Epidemiology & Preventive Medicine

University of California, Davis, California

1983-1986 Faculty of Food Hygiene
Department of Veterinary Medicine
Sichuan Agricultural University, Sichuan, China

2. Research, Scholarly and Creative Activities

a. Books

i. Chapters in books

- 1) Zhao, S., J. Meng, T. Zhao, and M.P. Doyle. 1996. Use of vaccine and biological control techniques to control pathogens in animals used for food. In: *HACCP: An Integrated Approach to Assuring the Microbiological Safety of Meat and Poultry*, (J.J. Sheridan, R.L. Buchanan and T.J. Montville, ed.). Food & Nutrition Press, Inc., Trumbull, CT.
- 2) Doyle, M.P., T. Zhao, T., J. Meng, and S. Zhao. 1997. *Escherichia coli* O157:H7. In: *Food Microbiology - Fundamentals and Frontiers*, (M.P. Doyle, L.R. Beuchat and T.J. Montville, ed.). American Society for Microbiology, Washington, D.C
- 3) Meng, J., and M.P. Doyle. 1998. Microbiology of Shiga toxin-producing *Escherichia coli* in food. In: *Escherichia coli O157:H7 and other Shiga toxin-producing E. coli*, (J.B. Kaper and A. O'Brien, ed.). American Society for Microbiology, Washington, D.C.
- 4) Meng, J. and M.P. Doyle. 1999. Bacteria in food and beverage production. In: *The Prokaryotes, a Handbook on the Biology of Bacteria: Ecophysiology, Isolation, Identification, Application*, (M. Dworkin, eds., 3rd ed). Springer-Verlag, New York, NY.
- 5) Meng, J., P. Feng, and M.P. Doyle. 2001. Pathogenic *Escherichia coli*. In: *Compendium of Methods for the Microbiological Examination of Foods*, (C. Vanderzant D. Splittstoesser, eds., 4th edition). American Public Health Association, Washington, DC.
- 6) Meng, J., Doyle, M.P., T. Zhao, and S. Zhao. 2001. Enterohemorrhagic *Escherichia coli*. In: *Food Microbiology - Fundamentals and Frontiers*, (M.P. Doyle, L.R. Beuchat and T.J. Montville, eds., 2nd edition). American Society for Microbiology, Washington, D.C.
- 7) White, D.G., S. Zhao, S. Simjee, J. Meng, R.D. Walker, and P.F. McDermott. 2004. Prevalence of antibiotic resistant bacteria in retail foods. In: *Pre-harvest and post-harvest food safety: Contemporary issues and future directions*, (R.C. Beier, S.D. Pillai, T.D. Philips). Blackwell Press, Ames, IA.
- 8) Schroeder, C. M. and J. Meng. 2007. *Echerichia coli*. In: *Foodborne Diseases*, (S. Simjee, ed). Humana Press, Totowa, NJ.

- 9) Meng, J., Doyle, M.P., T. Zhao, and S. Zhao. 2007. Enterohemorrhagic *Escherichia coli*. In: *Food Microbiology - Fundamentals and Frontiers*, (M.P. Doyle and L.R. Beuchat eds., 3rd edition). American Society for Microbiology, Washington, D.C.
- 10) Yan, X., Y. Peng, J. Meng, J. Ruzante, P. M. Fratamico, L. Huang, V. Juneja, D. S. Needleman. 2010. From Ontology Selection and Semantic Web to an Integrated Information System for Food-Borne Diseases and Food Safety, In: *Software Tools and Algorithms for Biological Systems*, Springer.
- 11) Meng, J., Doyle, M.P., T. Zhao, and S. Zhao. 2012. Enterohemorrhagic *Escherichia coli*. In: *Food Microbiology - Fundamentals and Frontiers*, (M.P. Doyle and R. Buchanan eds., 4th edition). American Society for Microbiology, Washington, D.C. (submitted)
- 12) Meng, J., P. Fratamico, and P. Feng. 2012. Pathogenic *Escherichia coli*. In: *Compendium of Methods for the Microbiological Examination of Foods*, (C. Vanderzant D. Splittstoesser, eds., 4th edition). American Public Health Association, Washington, DC. (submitted)
- 13) Bell, R.L., G. Cao, J. Meng, M. W. Allard, C. Keys, T. Hill, A. Ottesen and E. W. Brown. 2012. *Salmonella* Newport contamination of produce: ecological, genetic and epidemiological aspects. In: *Salmonella: Classification, Genetics and Disease*.(Adelaide S. Monte and Paulo Eduardo De Santos, eds.). Nova Publishers, Hauppauge, NY.
- 14) Doyle, M.P, L.R. Steenson, J. Meng. 2013. Bacteria in food and beverage production. In: *The Prokaryotes, a Handbook on the Biology of Bacteria: Ecophysiology, Isolation, Identification, Application*, (E. Rosenberg et al. eds.). Springer-Verlag, Berlin Heidelberg.

b. Articles in Referred Journals (First/last in author list indicates senior author)

i. Research articles

- 15) Genigeorgis, C., J. Meng and D. Baker. 1991. Behavior of nonproteolytic *Clostridium botulinum* type B and E spores in cooked turkey and modeling lag phase and probability of toxigenesis. *J. Food Sci.* 56:373-379.
- 16) Potter, M., J. Meng and P. Kimsy. 1993. An ELISA for detection of botulinal toxin types A, B, and E in inoculated food samples. *J. Food Prot.* 56:856-861.
- 17) Meng, J. and C. Genigeorgis. 1993. Modeling lag phase of nonproteolytic *Clostridium botulinum* toxigenesis in cooked turkey and chicken breasts as affected by temperature, sodium lactate, sodium chloride and spore inoculum. *Int. J. Food Microbiol.* 19:109-122.

- 18) Meng, J. and C. Genigeorgis. 1994. Delaying toxigenesis of *Clostridium botulinum* toxigenesis by sodium lactate in 'sous-vide' products. Lett. in Appl. Microbiol. 19:20-23.
- 19) Meng, J., S. Zhao, T. Zhao, and M.P. Doyle. 1995. Molecular characterization of *Escherichia coli* O157:H7 isolates by pulsed field gel electrophoresis and plasmid DNA analysis. J. Med. Microbiol. 42:258-263.
- 20) Zhao, S., S.E. Mitchell, J. Meng, M.P. Doyle and S. Kresovich. 1995. Cloning and nucleotide sequence of a gene upstream of the *eaeA* gene of *Escherichia coli* O157:H7. FEMS Microbiol. Lett. 133:35-39.
- 21) Zhao, S., J. Meng, M.P. Doyle, R. Meinersman, G. Wang and P. Zhao. 1996. A low molecular weight outer membrane protein of *Escherichia coli* O157:H7 associated with adherence to INT407 cells and chicken ceca. J. Med. Microbiol. 45:90-96.
- 22) Meng, J., S. Zhao, and M.P. Doyle, S.E. Mitchell and S. Kresovich. 1996. Polymerase chain reaction for detecting *Escherichia coli* O157:H7. Int. J. Food Microbiol. 32:103-14.
- 23) Meng, J., S. Zhao, M.P. Doyle, S.E. Mitchell and S. Kresovich. 1997. A multiplex PCR for detecting Shiga-like toxin producing *Escherichia coli* O157:H7. Lett. in Appl. Microbiol. 24:172-76.
- 24) Zhao, P., T. Zhao, M.P. Doyle, J.R. Rubino, and J. Meng. 1998. Development of a model to study microbial cross-contamination in food preparation and evaluation of the efficacy of an antibacterial kitchen disinfectant. J. Food Prot. 61:960-963.
- 25) Meng, J., S. Zhao, M.P. Doyle, and S.W. Joseph. 1998. Antibiotic resistance of *Escherichia coli* O157:H7 isolated from cattle and food. J. Food Prot. 61:1511-1514.
- 26) Meng, J., S. Zhao, and M.P. Doyle 1998. Virulence genes of Shiga toxin-producing *Escherichia coli* isolated from food, cattle and humans. Int. J. Food Microbiol. 45:229-235.
- 27) Senkel, A., R.A. Henderson, B. Jolbitado, and J. Meng. 1999. The use of hazard analysis critical control point and alternative treatments in the production of apple cider. J. Food Prot. 62:778-785.
- 28) Zhao, S., S.E. Mitchell, J. Meng, S. Kresovich, M.P. Doyle, R. Dean, and J.W. Weller. 2000. Genomic typing of *Escherichia coli* O157:H7 by semi-automated fluorescent AFLP analysis. Microbes and Infec. 2:107-113
- 29) Zhao, S., D. White, B. Ge, S. Ayers, S. Friedman, L. English, D. Wagner, S. Gains, and J. Meng, 2001. Identification and characterization of integron-mediated antibiotic resistance among Shiga toxin-producing *Escherichia coli* isolates. Appl. Environ. Microbil. 67:1558-1564.

- 30) White, D.G., S. Zhao, R. Sudler, S. Ayers, S. Friedman, S. McDermott, S. Chen, D. Wagner, and J. Meng. 2001. The isolation of antimicrobial-resistant *Salmonella* from retail ground meat. *N. England J. Med.* 345:1147-1154.
- 31) Cui, S., J. Meng, and A.A. Bhagwat. 2001. Availability of glutamate and arginine during acid-challenge determines cell density-dependent survival phenotype of *Escherichia coli*. *Appl. Environ. Microbil.* 67:4914-4918.
- 32) Zhao, S., D. G. White, P.F. McDermott, S. Friedman, L. English, S. Ayers, J. Meng, J.J. Maurer, R. Holland and R.D. Walker. 2001. Identification and expression of cephamycinase *bla*_{CMY} genes in *Escherichia coli* and *Salmonella* isolated from food animals and ground meats. *Antimicrob Agents Chemother.* 45:3647-3650.
- 33) Zhao, C., B. Ge, J.De Villena, R. Sudler, E. Yeh, S. Zhao, D. G. White, D. Wagner, and J. Meng. 2001. Prevalence of *Campylobacter*, *Escherichia coli* and *Salmonella* in retail chicken, turkey, pork, and beef from the Greater Washington DC Area. *Appl. Environ. Microbil.* 67:5431-5436.
- 34) Schroeder, C.M., C. Zhao, C. DebRoy, J. Torcolini, S. Zhao, D.G. White, D.D. Wagner, R.D. Walker, and J. Meng. 2002. Antimicrobial resistance among *Escherichia coli* O157 isolated from humans, cattle, swine, and food. *Appl. Environ. Microbil.* 68:576-581.
- 35) Ge, B., C. Larkin, S. Ahn, M. Jolley, M. Nasir, R. Hall, and J. Meng. 2002. Identification of *Escherichia coli* O157:H7 and other enterohemorrhagic serotypes by strand displacement amplification and fluorescent polarization. *Mol. Cellular Probe.* 16:85-92.
- 36) Ge, B., S. Zhao, R. Hall, and J. Meng. 2002. A PCR-ELISA for detecting Shiga toxin-producing *Escherichia coli* in food. *Microbes Infect.* 4:285-290.
- 37) White, D.G., S. Zhao S, P.F. McDermott, S. Ayers, S. Gaines, S. Friedman, D.D. Wagner, J. Meng, D. Needle, M. Davis, C. DebRoy. 2002. Characterization of antimicrobial resistance among *Escherichia coli* O111 isolates of animal and human origin. *Microb. Drug Resist.* 8:139-46.
- 38) Simjee, S., D. G. White, D. D. Wagner, J. Meng, S. Qaiyumi, S. Zhao, and P. F. McDermott. 2002. Identification of vat(E) in *Enterococcus faecalis* Isolates from Retail Poultry and Its Transferability to *Enterococcus faecium*. *Antimicrob Agents Chemother* 46:3823-28.
- 39) Schroeder, C. M. , J. Meng, S. Zhao, C. DebRoy, J. Torcolini, C. Zhao, P. F. McDermott, D.D. Wagner, R. D. Walker, and D. G. White. 2002. Antimicrobial Resistance of *Escherichia coli* O26, O103, O111, O128 and O145 from animals and humans. *Emerging Infect. Dis.* 8:1409-14.

- 40) Ge, B., S. Bodies, R.D. Walker, D.G. White, S. Zhao, P. F. McDermott, and J. Meng. 2002. Comparison of Etest and agar dilution for antimicrobial susceptibility testing of *Campylobacter* isolated from retail meats. *J Antimicrob Chemother.* 50:487-494.
- 41) Simjee S, D.G. White, J Meng, D.D. Wagner, S. Qaiyumi, S. Zhao, J.R. Hayes, and P.F. McDermott. 2002. Prevalence of streptogramin resistance genes among enterococcus isolates recovered from retail meats. *J Antimicrob Chemother.* 50:6,877-882.
- 42) Schroeder, C. M., D. G. White, B. Ge, Y. Zhang, S. Zhao, P. F. McDermott, J. Meng. 2003. Antimicrobial susceptibility of *Escherichia coli* isolated from retail meats. *Intl. J. Food Microbiol.* 85:197-202.
- 43) Ge, B., W. Girard, D. G. White, P. F. McDermott, S. Zhao, R. D. Walker, and J. Meng. 2003. Antimicrobial-resistant *Campylobacter* isolated from retail raw meats. *Appl. Environ. Microbil.* 69:3005-3007.
- 44) Cui, S., C. M. Schroeder, D.Y. Zhang, J. Meng. 2003. Rapid Sample Preparation Method for PCR-based Detection of *Escherichia coli* O157:H7 in Ground Beef. *J. Appl. Microbiol.* 95:129-134.
- 45) Senkel, I.A. Jr., B. Jolbitado, Y. Zhang, D. G.White, S. Ayers, J. Meng. 2003. Isolation and Characterization of *Escherichia coli* Recovered from Apple Cider and the Cider Production Environment. *J. Food Prot.* 66:2237–2244
- 46) Chen, S., S. Zhao, D. G. White, C. M. Schroeder, P. F. McDermott, H. Yang, S. Ayers, J. Meng. 2004. Characterization of Multiple-Antimicrobial-Resistant *Salmonella* serovars Isolated from Retail Meats. *Appl. Environ. Microbil.* 70: 1-7.
- 47) Foley, S.L., S. Simjee, J. Meng, D.G. White, P.F. McDermott, and S. Zhao. 2004. Evaluation of molecular typing methods for *Escherichia coli* O157:H7 isolates from cattle, food, and humans. *J. Food Prot.* 67:651-657.
- 48) Yang, H., S. Chen, D.G. White, S. Zhao, R. Walker, P. McDermott and J. Meng. 2004. Characterization of Multiple-Antimicrobial-Resistant *Escherichia coli* Isolated from Chicken and Swine in China. *J. Clin. Microbil.* 42:3483-3489.
- 49) Liming, SH, Y. Zhang, J. Meng, and AA, Bhagwat 2004. Detection of *Listeria monocytogenes* in fresh produce using molecular beacon – real-time PCR technology. *J. Food Sci.* 69:240-245.
- 50) Chen, S., S. Zhao, D. G. White, P. F. McDermott, S. Ayers, J. Meng. 2005. A DNA Microarray for Identification of Virulence and Antimicrobial Resistance Genes in *Salmonella* serovars and *Escherichia coli* *Mol. Cellular Probe.* 19:195-201.

- 51) Zhao, S, J.J. Maurer, S. Hubert, J.F. De Villena, P.F. McDermott, J. Meng, S. Ayers, L. English, D.G. White. 2005. Fluoroquinolone resistance of *Escherichia coli* from diseased chicken in North Georgia. *Vet. Microbiol.* 107:215-224.
- 52) Cui, S., B. Ge, J. Zheng, J. Meng. 2005. Prevalence and characterization of *Campylobacter* spp and *Salmonella* serovars in retail organic chickens of Maryland. *Appl. Environ. Microbil.* 71: 4108-4111.
- 53) Ge, B., P. McDermott, D.G. White, and J. Meng. 2005. The role of efflux pumps and gyrase A gene mutation on fluoroquinolone resistance in *Campylobacter jejuni/coli*. *Antimicrob Agents Chemother.* 49:3347-3354.
- 54) Singh, R., C. M. Schroeder, J. Meng, D. G. White, H. Yang, P.F. McDermott, D. Wagner, S. Simjee, C. DebRoy, R.D.Walker, and S. Zhao. 2005. Detection and characterization of antimicrobial resistance and class I integron in Shiga toxin-producing *Escherichia coli* recovered from humans and food animals. *J Antimicrob Chemother.* 56:216-219.
- 55) Li, F., C. Zhao, W. Zhang, S. Cui, J. Meng, J. Wu, D. Y. Zhang. 2005. Use of ramification amplification assay for detection of *Escherichia coli* O157:H7 and other *E. coli* Shiga toxin-producing strains. *J. Clin. Microbil.* 43:6086-6090.
- 56) McDermott, P. F., S. M. Bodeis-Jones, T. R. Fritsche, R. N. Jones, R. D. Walker, and The *Campylobacter* Susceptibility Testing Group. 2005. Broth microdilution susceptibility testing of *Campylobacter jejuni* and the determination of quality control ranges for fourteen antimicrobial agents. *J. Clin. Microbiol.* 43:6136-6138.
- 57) Ge, B., W. Girard, S. Zhao, J. Meng. 2006. Genotyping of *Campylobacter* spp. From retail meats using ribotyping and pulsed-field gel electrophoresis. *J. Appl. Microbiol.* 100:167-174.
- 58) Zheng, J., J. Meng, S. Zhao, R. Singh, W. Song. 2006. Adherence and invasion of *Campylobacter jejuni/coli* isolated from retail meat products to human intestinal epithelial cells. *J. Food Prot.* 69:768-774.
- 59) Cui, S., J. Zheng, and J. Meng. 2006. An Improved Method for Rapid Isolation of *Salmonella* from Chicken Carcasses. *Journal of Food Safety.* 26:49-61.
- 60) Shen, Y., Y. Liu, Y. Zhang, J. Cripe1, W. Conway, J. Meng, G. Hall1, and A.A. Bhagwat. 2006. Isolation and characterization of *Listeria monocytogenes* isolates from ready-to-eat foods in Florida. *Appl. Environ. Microbil.* 72: 5073-5076
- 61) Simjee, S., Y. Zhang, P. F. McDermott, S. M. Donabedian, M.J. Zervos, and J. Meng. 2006. Heterogeneity of vat(E) carrying plasmids in *Enterococcus faecium* recovered from human and animal sources. *Intl. J. of Antimicrob. Agents.* 28:200-205.

- 62) Zhang, Y., E. Yeh, Y. Shen, G. Hall, J. Cripe, A. Bhagwat, J. Meng. 2007. Characterization of *Listeria monocytogenes* isolated from retail food. *Intl. J. Food Microbiol.* 113:47-53.
- 63) Chen, S., S. Cui, P. F. McDermott, S. Zhao, D. G. White, I. Paulsen, and J. Meng. 2007. Contribution of target gene mutations and efflux to decreased susceptibility in *Salmonella* Typhimurium to fluoroquinolones and other antimicrobials. *Antimicrob. Agents Chemother.* 51:535-542.
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- 65) Huang, Z., D. Chen, K. Zhang, B. Yu, and J. Meng. 2007. Regulation of myostatin signaling by c-Jun N-terminal kinase in C2C12 cells. *Cellular Signaling.* 19:2286-95.
- 66) Zheng, J., C.E. Keys, S. Zhao, J. Meng, and E. W. Brown. 2007. Enhanced subtyping scheme for *Salmonella* Enteritidis. *Emerging Infect. Dis.* 13:1932-1935.
- 67) Ge, B., P. Jiang, F. Han, N. Saleh, N. Dhiman, D. P. Fedorko, N. A. Nelson, and J. Meng. 2007. Identification and antimicrobial susceptibility of lactic acid bacteria from retail fermented foods. *J. Food Prot.* 70:2606-2612.
- 68) Huang, Z., K. Zhang, J. Meng, D. Chen. 2008. Effect of siRNA targeted against MKK4 on myostatin-induced downregulation of differentiation marker gene expression. *Mol Cell Biochem.* 310:241-4.
- 69) Zheng, J., J. Meng, S. Zhao, R. Singh, and W. Song. 2008. *Campylobacter*-induced polarized secretion of IL-8 in human intestinal epithelial cells requires *Campylobacter*-secreted CDT and TLR-induced activation of NF-kB. *Infect. Immun.* 76:4498-4508.
- 70) Zheng, J., S. Cui, L. Teel, S. Zhao, R. Singh, A. O'Brien and J. Meng. 2008. Identification and characterization of Shiga toxin 2 variants in *Escherichia coli* isolated from animals, food and humans. *Appl. Environ. Microbiol.* 74: 5645–5652.
- 71) Xi, M., J. Zheng, S. Zhao, E. W. Brown, and J. Meng. 2008. An enhanced discriminatory PFGE scheme for subtyping *Salmonella* serotypes Heidelberg, Kentucky, SaintPaul, and Hadar. *J. Food Prot.* 71:2067:2072.
- 72) Bhagwat, A.A., W. Jun, L. Liu, P. Kannan, B. D. Tall, M.H. Kothary, K.C. Gross, S. Angle, J. Meng, and A. Smith. 2009. Osmoregulated periplasmic glucans of *Salmonella enterica* serovar Typhimurium are required for optimal virulence in mice. *Microbiology.* 155: 229-237.

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- Information System For Food-Borne Diseases And Food Safety. Adv Exp Med Biol. 696:741-50.
- 84) Lienau, E. K., E. Strain, C. Wang, J. Zheng, A. R. Ottesen, C. E. Keys, T. S. Hammack, S. M. Musser, E. W. Brown, M. W. Allard, G. Cao, J. Meng, And R. Stones. 2011. Identification Of A Salmonellosis Outbreak By Means Of Molecular Sequencing. N Engl J Med. 364:981-2.
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 - 89) Kelman, A., Y.A. Soong, D. Shafer, N. Dupuy, W. Richbourg, K. Johnson, T. Brown, E. Kestler, J. Zheng, Y. Li and P. McDermott and J. Meng. 2011. Antimicrobial susceptibility of *Staphylococcus aureus* from retail ground meats. J Food Prot. 74(10):1625-9.
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ii. Invited reviews

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- 128) Wang, F., J.A. Kase, J. Meng, and B. Ge 2012. Shiga Toxin-Producing *Escherichia coli*: Emerging Clinically Important Serotypes and Methods for Detection. *Foodborne Pathogens & Dis.* (Accepted)

c. Monographs, reports, and extension publications

- 129) Zhao, T., M.P. Doyle, S. Zhao and J. Meng. 1994. The detection and control of *Escherichia coli* O157:H7 in foods. In: Proceedings of the 3rd International Conference on Food Safety, (A. Amgar, ed.) Laval, France. p.263-281.
- 130) Meng, J. 1998. Postharvest storage and processing of agricultural products. Recommendations on Development of Agricultural Science in China.
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- 132) Meng, J. 2002. Book review: verocytotoxigenic *E. coli*. Food Technol. 56:133.
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- 137) National Academies/National Research Council Report. 2009. Review of the Food Safety and Inspection Service (FSIS) Risk-Based Approach to Public Health Attribution. (<http://foodrisk.org/downloads/NationalResearchCouncil-FSIS-Risk-Based-Approach.pdf>)
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d. Talks, Abstracts, and Other Professional Papers Presented

i. Invited lectures

Regional:

- 1) Meng, J. 1997. Emerging microbial foodborne pathogens. National Nutrition Center, USDA Beltsville Agricultural Research Center. Beltsville, MD.
- 2) Meng, J. 1998. Emerging and evolving microbial foodborne pathogens. Beckton and Dickinson, Inc., Sparks, MD
- 3) Meng, J. 1998. A hard food safety lesson from *Escherichia coli* O157:H7 infection. American Society for Microbiology DC Branch Meeting, Washington, DC
- 4) Meng, J. 1999. Rapid methods for detecting enterohemorrhagic *Escherichia coli*. JFSAN Executive Committee Meeting, University of Maryland, College Park, MD
- 5) Meng, J. 1999. Detection of *E. coli* O157:H7 and other enterohemorrhagic *E. coli* in food. JIFSAN Advisory Council Meeting, University of Maryland, College Park, MD
- 6) Meng, J. 1999. *Escherichia coli* O157:H7 and Food Safety. The Atlantic Food Development and Processing Conference. Baltimore, MD.
- 7) Meng, J. 2000. Enterohemorrhagic *E. coli* as significant foodborne pathogens. Maryland Department of Health and Mental Hygiene, Baltimore, MD.
- 8) Meng, J. 2000. Foodborne diseases: microbial aspects. Cooperate Extension Educators Conference: Current Food Safety Issues. University of Maryland, College Park, MD.
- 9) Meng, J. 2000. Isolation and characterization of *Campylobacter*, *E. coli* and *Salmonella* from retail meats. Center for Veterinary Medicine, Food & Drug Administration, Laurel, MD.
- 10) Meng, J. 2001. Prevalence of *Campylobacter*, *Escherichia coli* and *Salmonella* in retail chicken, turkey, pork, and beef from the Greater Washington DC Area. Eastern Food Science Conference XII “The Healthy Foods Challenge”, Hunt Valley, MD.
- 11) Meng, J. 2002. Pathogens in food and foodborne illness. Food Safety and Public Health: Issues for the 21st Century. Central Atlantic States Association of Food and Drug Officials, and Metropolitan Washington Public Health Association. College Park, MD.
- 12) Meng, J. 2002. Antimicrobial resistance among Shiga toxin-producing *Escherichia coli*. Annual Meeting of JIFSAN Advisory Committee. College Park, MD.
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- 15) Meng, J. 2002. Erythromycin and ciprofloxacin resistance in *Campylobacter* isolated from retail meats. JIFSAN Advisory Council Meeting, College Park, MD.
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- 17) Meng, J. 2003. Molecular mechanisms of erythromycin and ciprofloxacin resistance in *Campylobacter*. JIFSAN Advisory Council Meeting, College Park, MD.
- 18) Meng, J. 2004. Role of efflux pumps and gyrase mutations on antimicrobial resistance in *Campylobacter*. JIFSAN Annual Research Conference, College Park, MD.
- 19) Meng, J. 2005. Fluoroquinolone resistance in *Campylobacter jejuni/coli*: efflux pumps and gyrase A gene mutation. JIFSAN Advisory Council Meeting, College Park, MD.
- 20) Meng, J. 2006. Isothermal DNA amplification and biosensor technology of detecting *E. coli* O157:H7 in food. Food Safety & Food Defense Conference, Mid-Atlantic Section of AOAC International, College Park, MD.
- 21) Meng, J. 2009. Antimicrobial resistance, food and health. Online Distance Lecture for Maryland Cooperative Extension. College Park, MD.

National:

- 22) Meng, J. 1996. Competitive exclusion as a method to prevent colonization of *Escherichia coli* O157:H7 in cattle. Annual Meeting Society Industrial Microbiology, Research Triangle, NC.
- 23) Meng, J. 1998. Strand displacement amplification (SDA) for detecting Shiga toxin-producing *Escherichia coli*. Food Safety Diagnostics Congress: Novel Techniques. St. Louis, MO.
- 24) Meng, J. 1998. *Escherichia coli* O157:H7: an agent that has changed food safety system. Food Forum, National Academy of Science, Washington, DC.
- 25) Meng, J. 1999. Detection, subtyping and antibiotic resistance of foodborne enteric pathogens. Iowa State University, Ames, IA.
- 26) Meng, J. 2001. Characterization of antimicrobial resistance among *Salmonella* isolated from retail meats. National Antimicrobial Resistance Monitoring System Conference, Rockville, MD.

- 27) Meng, J. 2001. Antimicrobial resistance of Shiga toxin-producing *Escherichia coli*. Annual Meeting of American Society of Microbiology, Orlando, FL.
- 28) Meng, J. 2004. Antimicrobial susceptibility of *Campylobacter* spp. and *Salmonella* serovars isolated from retail organic chickens. The 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC.
- 29) Meng, J. 2005. Antimicrobial resistance of foodborne pathogens: mechanisms and resistance transfer. Department of Population Health and Reproduction, University of California, Davis, CA.
- 30) Meng, J. 2005. Diarrheagenic *Escherichia coli* and *E. coli* O157:H7. Veterinary Research Center, University of California, Davis, CA
- 31) Meng, J. 2007. Genomic Mutations: Shiga Toxin Variants in *E. coli* and Multidrug Resistance in *Salmonella*. Rutgers University, New Brunswick, NY.
- 32) Meng, J. 2008. Advanced technologies for detecting foodborne pathogens: current application and limitations. ALA LabAutomation 2008, Palm Spring, CA.
- 33) Meng, J. 2009. Microbial Safety Interventions in Food Production. Conference on Food Safety and Public Health Frontier: Minimizing Antibiotic Resistance Transmission through the Food Chain. Arlington, VA.
- 34) Meng, J. 2009. Foodborne pathogens and outbreaks: in introduction. Workshop: Produce Food Safety in Schools, Greenbelt, MD.

International:

- 35) Meng, J. 1994. *Escherichia coli* O157:H7 and its significance in food. Guizhou University, Guiyang, China.
- 36) Meng, J. 1994. Emerging foodborne pathogens in food animals. Guizhou Veterinary Research Institute, Guiyang, China.
- 37) Meng, J. 1999. Food safety standards in the United States. Anhui Agricultural University, China.
- 38) Meng, J. 1999. Food safety and emerging foodborne pathogens. Hefei University of Science and Technology, Anhui, China.
- 39) Meng, J. 1999. Food safety of fresh produce. Jiangxi Academy of Forestry, Nanchong, China.

- 40) Meng, J. 1999. HACCP in meat processing plant. Jiangxi Academy of Agricultural Sciences, Nanchong, China.
- 41) Meng, J. 1999. Antibiotic resistance gene transfer in foodborne bacteria. Yunan University of Science and Technology, Kuming, China.
- 42) Meng, J. 2001. Foodborne illness and emerging foodborne pathogens in the United States. College of Veterinary Medicine, China Agricultural University, Beijing, China.
- 43) Meng, J. 2001. Antimicrobial resistance of foodborne pathogens. Institute for Veterinary Drug Inspection and Control, China Ministry of Agriculture, Beijing, China
- 44) Meng, J. 2001. Bacterial pathogens important to food safety. College of Life Science and Biotechnology, Guizhou University, Guiyang, China.
- 45) Meng, J. 2003. Emerging antimicrobial resistance in foodborne pathogens. Keynote lecture, 5th International Symposium on the Epidemiology and control of Foodborne Pathogens in Pork, Crete, Greece.
- 46) Meng, J. 2003. Molecular mechanisms of fluoroquinolone resistance in *Salmonella* and *Campylobacter jejuni/coli*, Aristotle University, Thessaloniki, Greece.
- 47) Meng, J. 2004. Role of efflux pumps and gyrase mutations on erythromycin and ciprofloxacin resistance in *Campylobacter*. The 5th World Congress Foodborne Infections & Intoxications, Berlin, Germany.
- 48) Meng, J. 2004. Antimicrobial resistance of foodborne pathogens. Sichuan Agricultural University, Sichuan, China.
- 49) Meng, J. 2004. Application of advanced technologies to food safety. International Commission on Microbiological Specifications for Foods (ICMS) International Food Safety Conference. Beijing, China.
- 50) Meng, J. 2004. Current issues in food safety: hot topics and concerns. Workshop on Food Microbiology Specifications, International Life Science Institute (ILSI) – China Focal Point in China, Beijing, China.
- 51) Meng, J. 2004. Molecular mechanisms of antimicrobial resistance and resistance gene transfer. China Agricultural University, Beijing, China.
- 52) Meng, J. 2004. Antimicrobial-resistant bacteria in food of animal origin. Veterinary Public Health Section, Food & Environmental Hygiene Department, Hong Kong.
- 53) Meng, J. 2005. Advanced technologies in food safety: current usage and future applications. Northwest A & F University, Yanglin, China.

- 54) Meng, J. 2006. Detection of microorganisms in food. “Food safety: Basic Science and Practice in Food Processing” Workshop, Northwest A & F University, Yanglin, China.
- 55) Meng, J. 2007. Mechanisms of antimicrobial resistance development and transfer. Northwest A & F University, Yanglin, China.
- 56) Meng, J. 2007. Need for international food safety training. China International Food Safety and Quality Conference, Beijing, China.
- 57) Meng, J. 2008. Challenges in detection of microorganisms in food. “Food safety, Quality and Control” Symposium, Northwest A & F University, Yanglin, China.
- 58) Meng, J. 2008. Advanced technologies for pathogen and toxin detection in foods. China International Food Safety and Quality Conference, Beijing, China.
- 59) Meng, J. 2009. Food safety risk analysis at JIFSAN. APEC Workshop “Examination of Hot Issues in Food Safety Risk Analysis”, Singapore.
- 60) Meng, J. 2009. Challenges and opportunities of microbial food safety in a changing world. Shanghai Veterinary Research Institute, Shanghai, China.
- 61) Meng, J. 2009. New technologies in detection, identification and subtyping of microbial pathogens. Food Safety and Public Policy International Conference, Shanghai, China.
- 62) Meng, J. 2010. Microbial food safety in a changing world, Northwest A & F University, Yanglin, China.
- 63) Meng, J. 2010. Lesson learned from *Salmonella* Typhimurium outbreak associated with peanut butter. Northwest A & F University, Yanglin, China.
- 64) Meng, J. 2010. Point mutations in Shiga toxin variants and multidrug resistance in *Salmonella*. Shanghai Jiao Tong University, Shanghai, China.
- 65) Meng, J. 2010. University Centers of Excellence: leveraging research, education and outreach opportunities. Korean Society of Food Hygiene and Safety, Seoul, South Korea.
- 66) Meng, J. 2011. Partnership: key for success in food safety education and training. The Sixth International Forum on Food Safety, Shanghai, China.
- 67) Meng, J. 2011. Genomics technology and its potential in application to food safety. Yangling International Agri-Science Forum, Yangling, Shaanxi, China.
- 68) Meng, J. 2012. Challenges and opportunities in microbiological food safety research. International Food Safety Conference, Kuala Lumpur, Malaysia.

- 69) Meng, J. 2012. *Escherichia coli* O104:H4 outbreak and lessons learned. International Food Safety Conference, Kuala Lumpur, Malaysia.
- 70) Meng, J. 2012. Foodborne illness surveillance systems. International Symposium on Food Safety Risk Assessment, Beijing, China.
- 71) Meng, J. 2012. Partnership: key for success in food safety capacity building. International Symposium on Food Safety Risk Assessment, Beijing, China.

ii. Contributed talk, Abstracts, etc.

- 1) Meng, J. and C. Genigeorgis. 1992. Modeling lag phase of *Clostridium botulinum* toxigenesis in cooked turkey meat: effects of temperature, sodium lactate, sodium chloride and spore inoculum. Int. Workshop on Appl. of Pred. Microbiol. & Computer Tech. to Food Industry. Soc. Industrial Microbiol. Tampa, Florida.
- 2) Meng, J. and C. Genigeorgis. 1993. Probability of nonproteolytic *Clostridium botulinum* spore outgrowth after heat shock in BHI broth with sodium lactate or sodium nitrite, abstr. 665. Abstr. Annu. Meet. IFT, Chicago, IL.
- 3) Meng, J. and C. Genigeorgis. 1993. Inhibitory effects of sodium lactate on *Clostridium botulinum* toxigenesis in 'sous-vide' products, abstr. 150. Abstr. Annu. Meet. IAMFES, Atlanta, GA.
- 4) Meng, J., T. Zhao and M.P. Doyle. 1994. Genomic DNA fingerprinting of *Escherichia coli* O157:H7 Isolates by pulsed-field gel electrophoresis, abstr. P-79. Abstr. 94th Annu. Meet. Am. Soc. Microbiol., Las Vegas, NV.
- 5) Meng, J. and C. Genigeorgis. 1994. Probability of proteolytic *Clostridium botulinum* spore outgrowth after heat shock in BHI broth with sodium lactate or sodium nitrite, abstr. 59C-17. Abstr. Annu. Meet. IFT, Atlanta, GA.
- 6) Zhao, T., M.P. Doyle, S. Zhao and J. Meng. 1994. The detection and control of *Escherichia coli* O157:H7 in foods, p.263-281. In: *Proceedings of the 3rd International Conference on Food Safety*, (A. Amgar, ed.). Laval, France.
- 7) Meng, J., S. Zhao and M.P. Doyle. 1995. Polymerase Chain Reaction for Detecting *Escherichia coli* O157:H7, abstr. P-68, p394, Abstr. 95th Annu. Meet. Am. Soc. Microbiol., Washington, D.C.
- 8) Zhao, S., J. Meng and M.P. Doyle. 1995. A unique outer membrane protein associated with colonization of *Escherichia coli* O157:H7 on human intestinal epithelial cells, abstr. B-9, p167. Abstr. 95th Annu. Meet. Am. Soc. Microbiol., Washington, D.C.

- 9) Meng, J., and M.P. Doyle. 1996. Genetic similarity of *Escherichia coli* O157:H7 strains isolated from food, cattle and human patients. Abstr. 96th Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.
- 10) Meng, J., S. Zhao, and M.P. Doyle. 1996. A multiplex PCR for detecting verotoxin-producing *Escherichia coli* O157:H7, Abstr. Annu. Meet. IAMFES, Seattle, WA.
- 11) Zhao, S., S.E. Mitchell, J. Meng, M.P. Doyle and S. Kresovich. 1996. Cloning, sequencing and expression of a gene upstream of *eaeA* gene of *Escherichia coli* O157:H7. Abstr. 96th Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.
- 12) Meng, J., T. Zhao and M.P. Doyle. 1996. Competitive exclusion as a method to prevent colonization of *Escherichia coli* O157:H7 in cattle. Abstr. Annu. Meet. Soc. Indus. Microbiol. Research Triangle, NC.
- 13) Zhao, S., S.E. Mitchell, J. Meng, S. Kresovich, MP Doyle, R Dean, and JW Weller. 1997. Genomic typing of *Escherichia coli* O157:H7 by semi-automated fluorescent AFLP analysis. International Conference on Verotoxin-producing *Escherichia coli*. Baltimore, MD.
- 14) Meng, J., R.H. Hall. 1998. Application of diagnostic molecular microbiology to detection of enterohemorrhagic *Escherichia coli*. Abstr. 3rd Asian Conference on Food Safety & Nutrition, Beijing, China.
- 15) Meng, J., S. Zhao, M.P. Doyle. 1998. Antibiotic resistance of *Escherichia coli* O157:H7 isolated from cattle and food. Abstr. Annu. Meet. IAMFES, Nashville, TN.
- 16) Meng, J., S. Zhao, M.P. Doyle 1998. Virulence genes of Shiga toxin-producing *Escherichia coli* isolated from food, cattle and humans. Abstr. 98th Annu. Meet. Am. Soc. Microbiol., Atlanta, GA.
- 17) Ingram, D.T., M.A. Kantor, J. Meng. 1998. Survival and growth of *Escherichia coli* O157 during sprouting of inoculated alfalfa seeds. Abstr. Annu. Meet. IAMFES, Nashville, TN.
- 18) Sudler, R.L. Jr., J. Meng, D.T. Ingram, and L. Liu. 1999. Antibiotic resistance of Gram-negative enteric pathogens isolated from retail meats. Abstr. Annu. Meet. IAMFES, Dearborn, MI.
- 19) Ge, B., J. Meng, and S. Zhao. 1999. A PCR-ELISA for detecting Shiga toxin-producing *Escherichia coli* in food. Abstr. Annu. Meet. IAMFES, Dearborn, MI.
- 20) Ingram, D, S. Joseph, S. Zhao and J. Meng. 1999. Evaluation of a dipstick-style ELISA for the detection of *E. coli* O157 in ground beef. Abstr. 99th Annu. Meet. Am. Soc. Microbiol., Chicago, IL.

- 21) White, D.G., S. Zhao, S. Ayers, S. Gaines, S. Friedman, D. Wagner, C. Debroy, D. Needle, M. Davis and J. Meng. 2000. Characterization of Antimicrobial Resistance among Shiga-Toxin Producing *Escherichia coli* O111 Isolates. Abstr. 100th Annu. Meet. Am. Soc. Microbiol., Los Angeles, CA.
- 22) Zhao, S., D. White, S. Ayers, S. Friedman, B. Ge, J. Meng, L. English, D. Wagner and S. Gains. 2000. Antibiotic resistance integrons in Shiga toxin-producing *E. coli*. FDA Science Forum, Washington, DC.
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- 24) Ge, B., C. Larkin, S. Ahn, M. Jolley, M. Nasir, R. Hall, and J. Meng. 2000. Identification of *Escherichia coli* O157:H7 and other enterohemorrhagic serotypes by EHEC-hlyA targeting, strand displacement amplification and fluorescent polarization readout. Abstr. 100th Annu. Meet. Am. Soc. Microbiol., Los Angeles, CA.
- 25) Ahn, S., B. Ge, S. Ratnayake, C. Larkin, M. Jolley, M. Nasir, J. Meng, and R. Hall. 2000. Specific Detection of Enterohemorrhagic *E. coli* with PCR Amplification of an EHEC-hlyA Sequence. Abstr. 100th Annu. Meet. Am. Soc. Microbiol., Los Angeles, CA.
- 26) Zhao, C., Ge, B., De Villena, J., Sudler, R., Yeh, E., and J. Meng. 2000. Presence of *Campylobacter*, *Escherichia coli* and *Salmonella* in Retail Meats. Annu. Meet. Intl. Asso. Food Prot., Atlanta, GA.
- 27) Zhao, S., D. White, S. Ayers, S. Friedman, B. Ge, J. Meng, L. English, D. Wagner, and S. Gaines. 2000. Characterization of Antibiotic Resistance in Shiga Toxin-Producing *Escherichia coli*. Annu. Meet. IAFP, Atlanta, GA.
- 28) Simjee S., D.G. White, P.F. McDermott, D.D. Wagner, J. Hayes, and J. Meng. 2000. Prevalence of Streptogramin resistance genes among *Enterococcus faecium* isolates recovered from Retail Meats in the greater Washington DC Area. Abstr. 1st Intl Sym. Resistant Gram-Positive Infections. San Antonio, TX.
- 29) Ge, B., S. Zhao, S. A. Gaines, S. Friedman, and J. Meng. 2001. Genomic DNA Fingerprinting of *Campylobacter* Isolated from Retail Poultry Meats by Ribotyping and Pulsed-Field Gel Electrophoresis. 101st Annu. Meet. Am. Soc. Microbiol., Orlando, FL.
- 30) Yang, H., S. Chen, D.G. White, S. Zhao, F. De Villena, and J. Meng. 2001. Multiple Antimicrobial Resistance in Porcine *Escherichia coli* Isolated in China. 101st Annu. Meet. Am. Soc. Microbiol., Orlando, FL.
- 31) Zhao, S., D.G. White, R.D. Walker, P.F. McDermott, S. Friedman, L. English, S. Ayers, J. Meng, J. Maurer, and R. Holland. 2001. Identification and expression of the

- cephamycinase bla-cmy gene of *Escherichia coli* and *Salmonella* isolated from animals and food. 101st Annu. Meet. Am. Soc. Microbiol., Orlando, FL.
- 32) Simjee, S, D.G. White, P.F. McDermott, D.D. Wagner, J. Hayes, and J. Meng. 2001. Prevalence of streptogramin resistance genes among *Enterococcus faecium* isolates recovered from retail meats in the Greater Washington DC area. 101st Annu. Meet. Am. Soc. Microbiol., Orlando, FL.
 - 33) Wagner, D.D., J.R. Hayes, J. Meng. 2001. Antibiotic resistance profiles of *Enterococcus* spp. Isolated from retail meat. 101st Annu. Meet. Am. Soc. Microbiol., Orlando, FL.
 - 34) Ge, B., S. Bodeis, R. D. Walker, D. G. White, S. Zhao, P. F. McDermott, and J. Meng. 2001. Comparison of Etest and Agar Dilution Methods for Antibiotic Susceptibility Testing of *Campylobacter* Isolated from Retail Meats. Annual Meeting of National Antimicrobial Resistance Monitoring Program, Rockville, MD.
 - 35) Ge, B., D. G. White, S. Zhao, P. F. McDermott, R. D. Walker, and J. Meng. 2001. Antimicrobial-resistant *Campylobacter* isolated from retail raw meats in greater Washington area. The 11th Intl. Workshop on Campylobacter, Helicobacter and related organisms. Freiburg, Germany.
 - 36) Chen, S., S. Zhao, G. White, P.F. McDermott, and J. Meng. 2002. Characterization of antimicrobial resistant Salmonella. 2002. 102nd Annu. Meet. Am. Soc. Microbiol., Salt Lake City, UT.
 - 37) Cui, S. and J. Meng. Food sample preparation for molecular detection of *E. coli* O157:H7. 2002. Annu. Meet. Intl. Asso. Food Prot., San Diego, CA
 - 38) Ge, B., D. G. White, S. Zhao, P. F. McDermott, R. D. Walker, and J. Meng. 2002. Antimicrobial-resistant *Campylobacter* isolated from retail raw meats. 102nd Annu. Meet. Am. Soc. Microbiol., Salt Lake City, UT.
 - 39) De Villena, J., J. Meng, D.G. White. 2002. Fluoroquinolone resistance of avian *E. coli*. Annu. Meet. Intl. Asso. Food Prot., San Diego, CA
 - 40) Schroeder, M. C., D. G. White, B. Ge, Y. Zhang, P. F. McDermott, S. Ayers, S. Zhao, and J. Meng. 2002. Isolation of Antimicrobial-resistant *Escherichia coli* from Retail Meats Purchased in Greater Washington, DC, USA. Conference on Antimicrobial Resistance. Bethesda, MD.
 - 41) Zhao, S. Ge, B., D. G. White, P. F. McDermott, R. D. Walker, and J. Meng. 2002. Characterization of Antimicrobial resistance of *Campylobacter* isolated from retail raw meats. Western Poultry Disease Conference, Mexico.
 - 42) Schroeder, C.M., C. Zhao, C. DebRoy, J. Torcolini, S. Zhao, D.G. White, D.D. Wagner, R.D. Walker, and J. Meng. 2002. Antimicrobial resistance among *Escherichia coli* O157

- isolated from humans, cattle, swine, and food. 102nd Annu. Meet. Am. Soc. Microbiol., Salt Lake City, UT.
- 43) Simjee S, White DG, Carter PJ, Zervos MJ, Donabedian SM, Qaiyumi S, Zhao S, Wagner DD, Meng J and McDermott PF. 2002. Prevalence of enterococcal virulence genes in streptogramin-resistant *E. faecium* isolated from retail poultry and humans and *gelE* expression in a streptogramin resistant *E. faecium* isolate. 42nd Interscience Conference on Antimicrobial Agents and Chemotherapy, San Deigo.
 - 44) Schroeder, C. M., J. Meng, D. G. White, R. D. Walker, R. Singh, P. F. McDermott, D. D. Wagner, C. DebRoy, and S. Zhao. 2003. Characterization of Antimicrobial Resistance Integrons Among Shiga Toxin-Producing *Escherichia coil*. The 5th International Symposium on “Shiga Toxin (Verocytotoxin)-Producing *Escherichia coil* Infections. Scotland, UK.
 - 45) Foley, S. L., S. Simjee, J. Meng, D. G. White, P. F. McDermott, S. Friedman, S. Qaiyumi, and S. Zhao. 2003. Evaluation of Molecular Typing Methods for *Escherichia coli* O157:H7 isolated from cattle, food, and human. 7th PulseNet Annual Update Meeting, April 29-May 2, 2003, San Antonio, Texas.
 - 46) Meng, J. 2003. Emerging antimicrobial resistance in foodborne pathogens. Keynote lecture, 5th International Symposium on the Epidemiology and control of Foodborne Pathogens in Pork, Greece.
 - 47) Simjee S, Y. Zhang Y, P.F. McDermott, S.M. Donabedian, M.J. Zervos and J. Meng. 2003. Heterogeneity of *vatE* carrying plasmids in *E. faecium* recovered from human and animal sources. 43rd Interscience Conference on Antimicrobial Agents and Chemotherapy, Chicago.
 - 48) Zheng, J., W. Song, S. Zhao, R. Singh, J. Meng. 2004. Adherence and Invasion to Human Intestinal Epithelial T84 Cells by *Campylobacter jejuni/coli* Isolated from Retail Meats. Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.
 - 49) Yeh, E., J. Meng. 2004. Isolation of *Listeria monocytogenes* from retail organic chickens. Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.
 - 50) Cui, S., P. McDermott, J. Meng. 2004. Prevalence and Characterization of *Salmonella* Serovars from Retail Organic Chicken. Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.
 - 51) Zhang, Y., A. Bhagwat, and J. Meng. 2004. *Listeria monocytogenes* from Retail Organic and Conventional Fresh Produce. Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.
 - 52) Chen, S., S. Zhao, P. McDermott, D. G. White, S. Cui, and J. Meng. 2004. The roles of target mutation and efflux in fluoroquinolone resistant *Salmonella*. Annu. Meet. Am. Soc. Microbiol., New Orleans, LA.

- 53) Meng, J., B. Ge, P. McDermott, D. White, and S. Zhao. 2004. The Role of Efflux Pumps in Antimicrobial Resistance in *Campylobacter jejuni/coli*. The 5th World Congress Foodborne Infections & Intoxications, Berlin, Germany.
- 54) Ge, B., J. Zheng, and J. Meng. 2004. Antimicrobial susceptibility of *Campylobacter* spp. and *Salmonella* serovars isolated from retail organic chickens. The 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC.
- 55) Ge, B., P. McDermott, D. White, and J. Meng. 2004. The Role of Efflux Pumps and Target Gene Alteration in Antimicrobial Resistance of *Campylobacter jejuni/coli*. The 44th Interscience Conference on Antimicrobial Agents and Chemotherapy, Washington, DC.
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- 57) Cui, S. S. Zhao, R. Singh and J. Meng. 2005. Identification of Shiga toxin 2d variants in *Escherichia coli* isolated from animals, food and humans. Annu. Meet. Intl. Asso. Food Prot., Baltimore, MD.
- 58) Williams, K., and J. Meng. 2005. RT-PCR for the detecting Norovirus. Annu. Meet. Intl. Asso. Food Prot., Baltimore, MD
- 59) Jeong, D., S. Cui, and J. Meng. 2005. The role of efflux pumps and outer membrane protein in the susceptibility of *Escherichia coli* and *Salmonella* Typhimurium to biocides. Annu. Meet. Intl. Asso. Food Prot., Baltimore, MD.
- 60) Zheng, J., J. Meng, and W. Song. 2005. *Campylobacter* induces a polarized secretion of IL-8 human intestinal epithelial cells. Microbial Pathogenesis and Host Response. Cold Spring Harbor Laboratory, New York.
- 61) Zheng, J., J. Meng, and W. Song. 2006. IL-8 secretion of human intestinal epithelial cells induced by *Campylobacter jejuni/coli*. ASM Annual Meeting, Orlando, FL.
- 62) Zheng, J., J. Meng, and W. Song. 2007. *Campylobacter*-induced polarized secretion of IL-8 in human intestinal epithelial cells requires *Campylobacter*-secreted CDT and TLR-induced activation of NF-kB. Intl Asso. Food Prot., Orlando, FL.
- 63) Keys, C.E., J. Zheng, S. Zhao, J. Meng, and E. W. Brown. 2007. An enhanced discriminatory scheme for subtyping *Salmonella* Enteritidis with macro-restriction of DNA and pulsed-field gel electrophoresis. ASM Annual Meeting, Toronto, Canada.

- 64) Lamm, K.A., A. Rameseshan, J. Meng, E. W. Brown. 2008. Distribution and Evolution of the Palatinose (pal) Operon in *Enterobacter sakazakii*. ASM Annual Meeting, Boston, MA.
- 65) Zheng, J., C. E. Keys, A. Ramaseshan, S. Zhao, J. Meng, E. W. Brown. 2008. Simultaneous Analysis of Multiple Enzymes Sharply Increases the Accuracy of PFGE in Assigning Genetic Relationships among Homogeneous Salmonella Strains. ASM Annual Meeting, Boston, MA.
- 66) Zheng, J., F. Tian, S. Cui, J. Song, E. W. Brown and J. Meng. 2008. Global Regulation of Gene Expression in Salmonella Typhimurium by Constitutive Expression of RamA. ASM Annual Meeting, Boston, MA.
- 67) Liu, L., P. Kannan, J. Meng, A. A. Bhagwat. Osmoregulated Periplasmic Glucans (OPGs) of Salmonella enterica serovar Typhimurium are needed for optimal growth under nutrient limiting- hypoosmotic conditions. ASM Annual Meeting, Boston, MA.
- 68) Xia, X. , A. Smith, S. Zhao J. McEvoy, J. Meng, A. A. Bhagwat. 2008. Characterization of Salmonella isolates from retail foods for biofilm formation, inducible acid-tolerance and Caco-2 cell infectivity. ASM Annual Meeting, Boston, MA.
- 69) Xia, X., J. Meng, P. McDermott, and S. Zhao. 2009. Prevalence and Characterization of Shiga Toxin-Producing *Escherichia coli* in Retail Meats. ASM Annual Meeting, Philadelphia, PA
- 70) Xia, X., J. Meng, S. Zhao, and P. McDermott. 2009. Occurrence and Antimicrobial Resistance of Extraintestinal Pathogenic *Escherichia coli* in Retail Meats. ASM Annual Meeting, Philadelphia, PA
- 71) McDermott, P., A. Kelman, S. Ayers, Y. Li, A. Glenn, and J. Meng. 2009. Antimicrobial resistant *Staphylococcus aureus* in ground meat products of the Washington DC area. ASM-ESCMID Conference on Methicillin-resistant Staphylococci in Animals. September 22 - 25, 2009, London, UK.
- 72) Lubran, M., R. Pouillot, E. Calvey, J. Meng and S. Dennis. 2009. *Observational Study of Food Handling Practices in Retail Deli Departments*. Annual Meeting of Society for Risk Analysis, Baltimore, MD.
- 73) Yan, X, Y. Peng, J. Meng, J. Rusante, P. Fratamico, L. Huang and V. Juneja. 2009. Microbial profiling, neural network and semantic web: an integrated information system for human pathogen risk management, prevention and surveillance in food safety. The 6th International Conference on Predictive Modeling in Foods. Washington, DC.
- 74) Ju, W., M.A. Toro, Y. Li and J. Meng. 2010. Prevalence of Shiga Toxin-Producing *Escherichia coli* and *Salmonella Serovars* in Retail Ground Meats. Annual Meeting of Institute of Food Technologists, Chicago, IL.

- 75) Li, Y., and J. Meng. 2010. Presence and antimicrobial resistance of *Staphylococcus* in retail ground meats. Annual Meeting of Institute of Food Technologists, Chicago, IL.
- 76) Xia, X, J. Meng, S. Zhao, P. McDermott. 2010. Characterization of Uropathogenic *Escherichia coli* strains Isolated from Retail Meats. Annual Meeting of Institute of Food Technologists, Chicago, IL.
- 77) Toro, M., X. Yan, D.S. Needleman, P. Fratamico' and Meng. 2010. Improved Efficiency in Amplification of *Escherichia coli* O-Antigen Gene Clusters Using Genome-wide Sequence Comparison. ASM Annual Meeting, San Diego, CA.
- 78) Cao, G., S. Zhao, E. Brown, M. Allard, and J. Meng. 2011. Phylogenetic and Comparative Analysis of Salmonella Newport from Different Sources by Whole Genome Sequencing, ASM Annual Meeting, New Orleans, LA.
- 79) Alali, W., B. Yang, J. Meng, P. Donado, I. Walls, D. L. Wong, and M.P. Doyle. 2011. Prevalence of Salmonella on raw poultry in emerging market countries. Annual Meeting of International Association for Food Protection, Milwaukee, WI.
- 80) Rump, L.V., J. Meng, E. A. Strain, G. Cao, M.W. Allard, and N. Gonzalez-Escalona. 2012. Complete DNA sequence analysis of enterohemorrhagic *Escherichia coli* plasmid pO157_2 in β -glucuronidase-positive *E. coli* O157:H7 reveals a novel evolutionary path. ASM Annual Meeting, San Francisco, CA.
- 81) Wang, F., Q. Yang, J. Meng, and B. Ge. 2012 A Loop-Mediated Isothermal Amplification Detection System for Major Shiga Toxin-Producing *Escherichia coli* Serogroups in Produce. Annual Meeting of International Association for Food Protection, Providence, RI.
- 82) Cao, G., E. Strain, C. Wang, S. Zhao, E. Brown, M. Allard, and J. Meng. 2012. Comparative Genomics for *Salmonella* Pathogenicity Islands (SPI-5 and SPI-6) of *S. Newport* Using Whole Genome Sequencing. Annual Meeting of International Association for Food Protection, Providence, RI.
- 83) Rump, L.V., S. Bodies-Jones, J. Abbott, S. Zhao, J. Kase, S. Lorenz, M. Fischer, E. Brown, and J. Meng. 2012. Molecular Characterization and Virulence Determination of *Escherichia coli* O104 Isolates from Different Sources in the United States. Annual Meeting of International Association for Food Protection, Providence, RI.
- 84) Shen, J., W. Ju, S. Zhao, E. W. Brown, and J. Meng. 2012. Genotypic and cytotoxicity analysis of non-O157 Shiga toxin-producing *Escherichia coli* isolates from humans, animals and food. Annual Meeting of International Association for Food Protection, Providence, RI.

- 85) Ju, W., S. Shen, M. Toro, S. Zhao and J. Meng. 2012. Distribution of pathogenicity islands in Shiga toxin-producing *Escherichia coli*. Annual Meeting of International Association for Food Protection, Providence, RI.
- 86) Toro, M., S. Ayers, W. Ju, Y. Li, S. Zhao, and J. Meng. 2012. Prevalence and Characterization of *Salmonella* Serovars in Retail Ground Pork and Beef. Annual Meeting of International Association for Food Protection, Providence, RI.

f. Contracts and grants

Year	Title of Project	Funding agency	PI	Co-PI
1997-1999	Survival and virulence of enterohemorrhagic <i>E. coli</i> (EHEC) as affected by pH and water activity, and detection of EHEC	USDA-NRI	\$87,000	
1997-1999	Characterization of <i>Escherichia coli</i> O157:H7 Strains Isolated from Food, Cattle, and Human Patients	MAES	\$50,000	
1997	Typing of Shiga toxin-producing <i>E. coli</i>	KPL, Inc.	\$800	
1998	Control of <i>E. coli</i> O157:H7 in food	Vector Marketing	\$1,400	
1998	Detection of Shiga toxin-producing <i>E. coli</i>	Beckton & Dickson, Inc	\$2,000	
1998-1999	Molecular methods for detecting foodborne pathogens	Diachemix, Inc	\$47,000	
1999	Characterization of Antibiotic Resistance Genes in Foodborne Bacterial Pathogens	UM-GRB	\$9,750	
1999-2000	Antibiotic Resistance of Shiga Toxin-Producing <i>Escherichia coli</i> and <i>Salmonella</i> Isolated from Retail Meats	MAES	\$20,000	
1999-2004	Molecular Methods for Detecting Shiga Toxin-Producing <i>Escherichia coli</i> in Food	Odwala Funds	\$65,250	
2000	Food safety research	Biospherics	\$1,000	
2000-2002	Graduate Assistantship on Antibiotic Resistance Research	FDA-CVM	\$66,000	
2000-2002	Antibiotic Resistant <i>Campylobacter</i> Isolated from Retail Meats	MAES	\$40,000	
2000-2003	Antibiotic Resistance Integrons in Shiga toxin-producing <i>E. coli</i> and <i>Campylobacter</i>	JIFSAN	\$177,600	
2000-2003	Characterization of multiple antibiotic resistance among enterohemorrhagic <i>E. coli</i>	USDA-NRI	\$250,000	
2001	Antibiotic-resistant <i>Salmonella</i>	MicroBioTest,	\$1,000	

2002-2004	A novel technology for detecting <i>E. coli</i> O157:H7 in food	Inc USDA-NRI	\$250,000
2002-2005	Antimicrobial resistance of <i>Campylobacter</i> spp. from retail chicken	USDA-SCRIP	\$45,000
2003-2005	Graduate Assistantship on Antibiotic Resistance Research	FDA-CVM	\$66,000
2003-2006	Molecular Mechanisms of Fluoroquinolone and Erythromycin Resistance in <i>Campylobacter jejuni/coli</i>	JIFSAN	\$133,650
2004-2005	Development of Assay and Sample Collection Process for Rapid Detection of <i>E. coli</i> O157:H7 in Food Products	Maryland Industry Partnership	\$76,998
2004-2007	Rapid Assay for Detecting Human Enteric Viruses and Viral Survival Dynamics on Fresh Fruits and Vegetables	JIFSAN	\$222,750
2005	<i>Campylobacter</i> Susceptibility Testing Quality Control Study	JMI Labs	\$2,000
2005-2006	DNA Microarray Analysis of Multidrug Resistant <i>Salmonella</i>	MAES	\$20,000
2005-2006	Identification of Monoclonal Antibodies for Detection of <i>Salmonella</i> and <i>Listeria monocytogenes</i> in Food	Maryland Industry Partnership	\$77,000
2006-2007	Mutator in antimicrobial resistance	MAES	\$20,000
2006	DNA microarray and microbial pathogenesis research enhancement	UM	\$360,000
2007-2008	Cooperative Agreement to Support JIFSAN	FDA	\$2,000,000
2007	WTO/SPS Leadership Development Program	US Meat Export Federation	\$160,678
2007	Food Safety Training	USDA/FAS	\$244,765
2007	Tools for Prioritizing Food Safety Concerns Workshop	Food Products Association	\$50,000

2008	Afghanistan Food Safety Program	Research Foundation Chemonics	\$79,389	
2008-2009	Cooperative Agreement to Support JIFSAN	FDA	\$1,389,140	
2008	Tools for Prioritizing Food Safety Concerns Workshop	Grocery Manufacturer's Association Foundation	\$35,000	
2009-2010	Cooperative Agreement to Support JIFSAN	FDA	\$1,896,200	
2009-2010	Web Based Training Module for Drug Use in Aquaculture	FDA	\$350,000	
2009-2012	An Online Integrated Food Safety Risk Analysis Resource to Facilitate National and International Information Exchange	USDA/CSREES		\$599,924
2009-2010	APEC National Trends and Regional Approaches to Export Certification Workshop	USDA/FAS	\$119,810	
2010-2011	Cooperative Agreement to Support JIFSAN	FDA	\$1,265,506	
2010-2011	Efficacy test for bioremediation products on FOG	MIPS	\$89,894	
2010-2016	International Food Safety Training Laboratory	Waters Corporation	\$2,214,000	
2011-2012	Cooperative Agreement to Support JIFSAN	FDA	\$1,900,000	
2012-2013	Toward a rapid and reliable pathogen detection system in produce	Center for Produce Safety, UCD	\$152,595	
2012-2015	Leafy Greens and Tomatoes Safety Metrics*	USDA/NIFA	\$329,049	
2012-2013	Cooperative Agreement to Support JIFSAN	FDA	\$2,106,000	
2012-2013	Food safety and shelf life studies	Ingredion Corporation	\$55,000	
Total			\$16,279,244	\$17,129,148

*spending authority under Dr. Robert Buchanan's \$5M NIFA grant

Patents/Invention Disclosure

Novel Fruit Seed Derived Shelf-Life Enhancer for Prevention of n-3 Fatty Acids and Fish Oil.
Liangli Yu, Marla Luther, and Jianghong Meng.

g. Fellowships, prizes, awards and honors

- 1981 Outstanding Student Award, Sichuan Agricultural University, China
- 1982 Outstanding Student Award, Sichuan Agricultural University, China
- 1986 Overseas Study Scholarship, the Chinese Ministry of Education.
- 1991 Graduate School Tuition Fellowship, UC, Davis
- 1999 Member of 100 Overseas Distinguished Scholars to Attend the 50th Anniversary Ceremony of the Foundation of the People's Republic of China in Tian An Men Square, Beijing, China
- 2006 Cheung Kong Scholar Award, Ministry of Education, China.
- 2007 Commissioner's Special Citation Award, the US Food & Drug Administration
- 2010 Outstanding Service Award to the National Advisory Committee on Microbiological Criteria for Food, US Department of Agriculture
- 2010 FDA/CFSAN Director's Special Citation Award on Aquacultural Foods
- 2010 FDA/CFSAN Exceptional Achievement Award on Food Safety Practices at Retail

h. Editorship, editorial boards, and reviewing activities for journals and other learned publications

- i. Editorial board
 - 1) Journal of Food Protection, 1/1/1998 - 12/31/2000; 1/1/2013-2016
 - 2) Applied and Environmental Microbiology, 1/1/2004-12/31/2009
 - 3) Food Microbiology, 1/1/2013 to 1/1/2017
- ii. Reviewing activities for journals

- 1) Antimicrobial Agents & Chemotherapy
- 2) Applied and Environmental Microbiology
- 3) Journal of Antimicrobial Chemotherapy
- 4) Journal of Applied Microbiology
- 5) Journal of Food Science
- 6) Journal of Food Safety
- 7) Journal of Food Protection
- 8) Journal of Clinical Microbiology
- 9) Molecular and Cellular Probes
- 10) FEMS Microbiology Letters
- 11) Journal of Medical Microbiology
- 12) Poultry Science

3. Teaching, Mentoring and Advising

a. Courses taught in the last five years

i. General.

- 1) NFSC 112 Food: Science and Technology (3 credits): team taught with four other instructors. Spring 1997, 1998, 1999, 2003, 2004, 2005, 2006
- 2) NSFC689 Food Science Colloquium (1 credit): graduate course. Spring 2000, 2001, 2002, 2003, 2004, 2005

ii. Specialized

- 1) NFSC430 Food Microbiology (3 credits): junior course in food science program. Spring 2005, 2006.
- 2) NSFC434 Food Microbiology Laboratory (3 credits): junior course in food science. Spring 2000, 2002, 2003, 2004, 2005, 2006

- 3) NFSC631 Advanced Food Microbiology (2 credits): graduate course for food science. Spring 1999, 2001, 2003, 2004, 2006, 2013

iii. Independent Study, Tutorial, Internship Supervision.

- 1) NFSC499 Independent Study for Food Science Undergraduate
- 2) NFSC799 Independent Study for MS Students
- 4) NFSC899 Independent Study for PhD Students
- 5) GEMS296 Gemstone Research Projects

b. Course or Curriculum Development.

- 1) NFSC 112 Food: Science and Technology: working with four colleagues, I extensively updated this course. I am responsible for five lectures on food safety and biotechnology.
- 2) NFSC430 Food Microbiology: I developed the course syllabus and the lectures to include topics related to the major microorganisms implemented in foodborne diseases and food spoilage, and the use of microbes for food production. The course emphasizes the “how” and “why” and “what can we do about it?” questions regarding the activities of microbes in food.
- 3) NSFC434 Food Microbiology Laboratory: I developed the course syllabus and the laboratory manual for the upper level food science course.
- 4) NFSC631 Advanced Food Microbiology (2 credits): I developed the course syllabus and the lectures of this graduate course. It focuses on studying microorganisms and their pathogenesis, and the development of methods for detecting foodborne pathogens. The primary emphasis of this course is to review recent developments in food safety microbiology.

c. Manuals, Notes, Software, Webpages, and Other Contributions to Teaching.

- 1) Developed a lab manual for NSFC434 Food Microbiology Laboratory.
- 2) Developed NFSC430 Food Microbiology.

d. Advising: Other than Research Direction.

- i. Undergraduate

- 3) Advise 6-10 undergraduate students in food science each year (1996-2009).
- 4) Give lectures on food safety research for College Park Scholar Students in 2004 and 2005.

ii. Graduate.

- 1) Served as Director of Graduate Program in Food Science from 2001-2004.
- 2) Advised prospective students on application for graduate studies and enrolled students on career opportunities.

e. Advising: research direction

i. Undergraduate

- | | |
|-----------|--|
| 1999 | Susie Ahn (Microbiology)
Chris Larkin (Microbiology)
Emily Yeh (Food Science) |
| 2000 | Wico Nekma (Food Science)
Kwasi Safo-Mensa (Biochemistry)
Jennifer Leon (Horticulture) |
| 2001 | Eme-Obong Ekpo (Bioscience)
Brittney Allen (Bioscience) |
| 2003 | Howard Majolagbe (Bioscience)
Robert Hug, Jr. (Bioscience) |
| 2007-2009 | Alina Kelman (Gemstone)
Yee-Ann Soong (Gemstone)
Billy Richbourg (Gemstone)
Twain Brown (Gemstone)
Ed Kestler (Gemstone)
Kourtney Johnson (Gemstone)
Nicole Dupuy (Gemstone)
Daniel Shafer (Gemstone) |

ii Master's

Principal Research Advisor

		<i>Current Position</i>
1997-2000	Robert Sudler	Department of Health, District of Columbia

1999-2001	Juan De Villena	Purdue Farms, Delaware
1999-2001	Cuiwei Zhao	USDA, National Nutrition Center, Beltsville, MD
2000-2002	Webb Girard	PSI Holdings, Inc., Kent, WA
2002-2004	Emily Yeh	Federal Bureau of Investigation, Washington DC
2003-2005	Karen Williams	FDA/CVM/Division of Animal & Food Microbiology
2004-2006	Nivedita Dhiman	
2006-2008	Kate Lamm	
2007-2008	Ana Armijos	
2008-2010	Yi Li	

Member of Thesis Committee

		<i>Current Position</i>
1998-1999	David Ingram (Microbiology)	USDA Beltsville Research Center
1999-2000	Galina Lyugachevskaya	USDA
1999-2004	Sharon Edelson-Mammel	FDA/CFSAN
2004-2005	Geeta Lala	
2005-2006	Marlar Luther	
2013-	Yunpeng WU	

ii. Doctoral

Principal Research Advisor

		<i>Current Position</i>
1997-2002	Beilei Ge	Associate Professor, Louisiana State University
1998-2009	David Ingram	USDA Beltsville Research Center
2000-2004	Sheng Chen	Associate Professor, Hong Kong Polytech University
2000-2004	Shenghui Cui	Microbiologist, Food & Drug Administration, China
2001-2006	Yifan Zhang	Assistant Professor, Wayne State University

2002-2006	Jie Zheng	Microbiologist, the US Food & Drug Administration
2006-2010	Xiaodong Xia	Professor, Northwest A & F University, China
2007-	Brenda Kroft	
2008-	Magaly Tora	
	Wengtin Ju	
2009-2013	Guojie Cao	

Member of Dissertation Committee

1998-2000	Sarita Shenoy	
1998-	Andrea Lomander (Biological Engineering)	
1999-2004	Kathy D'Ovidio	
1999-2004	Joshua Hayes (Microbiology)	
1999-2007	Scott Thornton (Microbiology)	
2002-2004	April Hsu	
2004-2005	Kequan Zhou	
2004-2006	Won Jun	
2005-2007	Ron Miller	
2005-2006	John Parry	
2005-2007	Steve Wong (Nutrition)	
2008-2009	Silvia Dominguez (Food Science, Rutgers University)	
2008-2011	Herman Lutterodt	
2009-	Charles Giesecker	
2011-	Zhufang Xie	
2012-	Yinjian Lu	

2013- Yuchen Nan (Vet Med)

iii Honors/Awards/Scholarship Received by Students under My Supervision

Beilei Ge:

- 1998 Graduate Student Award, IFT Maryland Section
- 1998 Michael J. Pelczar Award, ASM DC Branch
- 1999 National Food Processors Association Scholarship (\$3,000)
- 1999 Institute of Food Technologists Graduate Student Fellowship (\$2,000)
- 2001 Institute of Food Technologists Graduate Student Fellowship (\$1,500)
- 2001 Graduate Student Poster Competition Award (3rd place), IFT Maryland Section

Robert Sudler:

- 1999 Developing Scientist Award, International Association of Food Protection

David Ingram:

- 2000 Graduate Student Poster Competition Award (3rd place), IFT Maryland Section

Juan De Villena

- 2001 Graduate Student Poster Competition Award (2nd place), IFT Maryland Section

Yifan Zhang

- 2003 Graduate Student Poster Award, UM Bioscience Day
- 2004 ASM Travel Award (\$500)

Xiaodong Xia

- 2009 Graduate Summer Dissertation Fellowship, University of Maryland

Wenting Ju

- 2012 First Place, NFSC Graduate Poster Competition
- 2012 First Place, Developing Scientist Award, International Association of Food Protection

Guojie Cao

- 2012 Travel Award (\$500), Capital Association of Food Protection

iv. Visiting scientists:

- 2000 Hala A. Hussien, PhD, Associate Professor, National Center for Radiation and Technology, Egypt
- 2000 Eric Wong Gonzalez, MS, University of Costa Rica, San Jose, Costa Rica
- 2000 Ping Jiang, DVM, Professor, Department of Food Science & Technology, Guizhou University, Guiyang, China

- 2000-2001 Hanchun Yang, DVM, PhD, Professor & Chair, Department of Veterinary Preventive Medicine, China Agricultural University, Beijing, China
- 2003 Eleni Iossifidou, DVM, PhD, Assistant Professor, Department of Food Hygiene and Technology, Aristotle University, Thessaloniki, Greece
- 2004-2005 Dong Kwan Jeong, PhD, Associate Professor, Department of Food & Nutrition, Kosin University, Busan, South Korea
- 2006-2007 Baowei Yang, Northwest A & F University, Yanglin, Shaanxi, China
- 2006-2007 Meili Xi, Northwest A & F University, Yanglin, Shaanxi, China
- 2007 Xiuli Zhang, Helan CDC, Zhenzhou, China
- 2008 Xin Wang, Northwest A & F University, Yanglin, Shaanxi, China
- 2010 Yu Hu, Shanghai Jiao Tong University, China
- 2010 Mingtao Fan, Northwest A & F University, Yanglin, Shaanxi, China
- 2010-2012 Jinglin Shen, Northwest A & F University, Yanglin, Shaanxi, China
- 2011-2012 Yu Hu, Shanghai Jiao Tong University, Shanghai, China
- 2012-2013 Likou Zhou, Sichuan Agricultural University, Chengdu, China
- 2012-2013 Guangwei Zhang, Henan Center for Disease Control, China

v. Postdoctoral scientists:

Current Position

- 1999-2000 Hua Wang, Associate Professor, Ohio State University
- 2001-2002 Carl Schreoder, Microbiologist, USDA, Food Safety & Inspection Service
- 2002-2004 Beilei Ge, Associate Professor, Louisiana State University
- 2004-2005 Shenghui Cui, Associate Professor, Food & Drug Administration, Beijing, China
- 2006-2008 Jie Zheng, Microbiologist, the US Food & Drug Administration
- 2009-2010 Mohamed Najjar, Senior Scientist, PepsiCo
- 2011- Lydia Rump,

2012- Fei Wang,

4. Service
a. Professional

i. Offices and committee memberships in professional organizations

2000 President-elect Capital Area Food Protection Association

2002-2004 President Capital Area Food Protection Association

ii. National committees

2001 Panelist National Program 108 Food Safety Program/USDA Scientific Quality Review

2004-2006 Member National Advisory Committee on Microbiological Criteria for Foods (NACMCF) of USDA, Department of Health and Human Services, Department of Defense, and the Department of Commerce.

2004-2005 Panelist Institute for Food Technologists (IFT) Expert Panel on Public Health Impact of Agricultural Uses of Antibiotics - Implications for the Food Industry

2005 Panelist National Program 108 Food Safety Postharvest – Molecular Biology and Methodology Panel/USDA Scientific Quality Review

2006-2008 Member National Advisory Committee on Microbiological Criteria for Foods (NACMCF) of USDA, Department of Health and Human Services, Department of Defense, and the Department of Commerce.

2008 Member National Research Council (NRC) Committee of the National Academies for Review of the Food Safety and Inspection Service (FSIS) on Risk-Based Approach to Public Health Attribution

2008-2010 Member National Research Council (NRC) Standing Committee of the National Academies on Use of Public Health Data in FSIS Food Safety Programs

2009	Participant	The American Academy of Microbiology's Colloquium Global Food Safety: Reducing Risk from Farm to Table.
2010-2015	Member	Microbiology Expert Committee, United States Pharmacopeia
2010	Panelist	USDA NIFA Nanotechnology and Food Safety
2011	Member	Steering Committee of Food Safety Preventive Controls Alliance
2012	Member	Program Committee, Human Pathogens on Plants Workshop, Hyattsville, Maryland, American Photopathological Society.

iii. Review of Competitive Grant Programs

1996	USDA Small Business Innovation Research, 1 proposal
1999	USDA-NRI Ensuring Food Safety, 3 proposals
	USDA-Scientific Cooperation and Research Program, Leader Panelist, 15 proposals
	United Kingdom Welcome Truist-Joint Infrastructure Funds, 1 proposal
2000	USDA-NRI Ensuring Food Safety, 2 proposals
	FDA/Center for Veterinary Medicine-Cooperative Agreements, 3 proposals
	FDA International Antibiotic Resistance Research, 1 proposal
2001	USDA-NRI Ensuring Food Safety, 2 proposals
	Peer review panelist, USDA/ARS/Office of Scientific Quality Review
2002	Peer review panelist, FDA Counter-bioterrorism research grants
	USDA-NRI Ensuring Food Safety, 2 proposals
2003	USDA-NRI Ensuring Food Safety, 2 proposals
	USDA Small Business Innovation Research, 1 proposal
2004	USDA-NRI Ensuring Food Safety, 2 proposals

- 2005 Austrian Genome Research Program, Austria, 1 proposal
- 2006 Medical Research Council, United Kingdom, 1 proposal
- 2008 USDA Small Business Innovation Research, 1 proposal
- 2010 Panelist, National Review Panel on Nanotechnology for Food Safety, USDA AFRI program

iv International activities

- 1997 Invited to make recommendations to the Chinese Government on Agricultural Development in China; an article has been collected in a proceeding submitted to the State Council of China.
- 1998- Assist the Institute for Global Chinese Affairs of UM and provide professional
2002 experience to Chinese scientists visiting UM
- 1999 College International Program: participated in survey activities and developed recommendations for sustainable agriculture in Sichuan Province, China
- 1999 Distinguished scientist invited by the State Council of China to give seminars and workshops in three provinces (Anhui, Jiangxi, and Yunan), and to attend the ceremony of the 50th Anniversary of the Foundation of the Peoples' Republic.
- 2000 College International Program: host a visiting scientist to develop a research program on Safety of Fresh Produce in Costa Rica
- 2001 Research collaboration on antimicrobial resistance of bacterial pathogens with China Agricultural University, Beijing, and Guizhou University, Guiyang
- 2001 Visited Pasteur Institute in Paris, France and invited to organize a mini-forum on food safety for the Institute's publication, "Microbes and Infection."
- 2002 Research collaborations with China Centers for Disease Control & Prevention, a project on antimicrobial resistance of Campylobacter has been funded by USDA
- 2003 Visited and established research collaborations with Agriculture Victoria, Melbourne, Australia. Received \$222,750 JIFSAN grant to develop Rapid Assay for Detecting Human Enteric Viruses and Viral Survival Dynamics on Fresh Fruits and Vegetables

- 2003 Keynote Speaker on Antimicrobial Resistance at the 5th International Symposium on the Epidemiology and Control of Foodborne Pathogens in Pork. Crete, Greece.
- 2004 Gave invited lectures and interacted with faculty and students at Medical School in Crete, and Department of Food Hygiene and Technology, Aristotle University, Thessaloniki, Greece
- 2004 Attended International Commission on Microbiological Specifications for Foods (ICMS) activities and delivered an invited lecture at ICMS International Food Safety Conference, Beijing, China
- 2005 Hosted Dr. Robert Premier from Agriculture Victoria, Australia, Co-PI of the JIFSAN funded project, and provided him with techniques developed in our lab for their testing for safety of fresh fruits and vegetables in Australia.
- 2006 Established collaborations with Northwest A & F University in China; The University sent 2-3 junior faculty to my lab for PhD studies with full support and provide \$650,000 to establish a food safety lab at the Northwest A & F University
- 2009-2012 Member of Steering Group, Partnership Training Institute Network (PTIN), Asia Pacific Economic Corporation (APEC)
- 2012- Chair, International Expert Advisory Committee, China National Center for Food Safety Risk Assessment

b. University

i. Departmental Committees (Nutrition and Food Science)

- 1997-2009 Undergraduate Adviser for Food Science Major
- 1998-2000 Scholarship Committee
- 1999-2000 Social Committee
- 1999 Search Committee for Food Sensory Evaluation Position
- 2000 Chair, Scholarship Committee
- 2000 Search Committee for Food Safety/ Processing Position
- 2001-2004 Director, Graduate Program in Food Science
- 2001 TA Assignment Committee

2001-2002 Chair, Search Committee for Food Chemistry Position

2001-present Department Promotion & Tenure Committee

2001 Chair, Department P/T Committee for Dr. Berna Magnuson

2001 Two-year review committee for Dr. Monica Giusti

2002 Chair, two-year review committee for Dr. Berna Magnuson

2003-2006 Merit-pay Committee

2003 Department P/T Committee for Dr. Martin Lo

2003-present Food Science Undergraduate Curriculum Committee

2004 Chair, four-year review committee for Dr. Berna Magnuson

2004-2005 Food Science Undergraduate Program Review Committee

2004 Faculty Advisory Committee

2005-2007 TA Assignment Committee

2006 Department Steer Committee

2008 Department Plan Committee

Chair, Department APT Committee for Robert Buchanan

NFSC APT Committee

2009 NFSC APT Committee

2009-2011 Faculty Advisory Committee

2010-present Graduate Admission Committee

2010 Search Committee for Clinical Nutrition faculty position

2011 Chair, 4 Year Review Committee for Dr. Wen Hsing Cheng

2012 Chair, APT Committee

ii. College and Divisional

1999	JIFSAN Strategic Planning Task Groups
2000	Five-year review committee for Associate Dean of Research
2000-2003	Dean's Advisory Committee
2001	College Food Science Program Task Force Group
2003-2004	College Promotion & Tenure Committee
2006	Member of Promotion & Tenure Committee for three faculty members at Department of Veterinary Medicine
2006-2008	Member of the College Administrative Council
2006-2009	Member of the College Faculty Advisory Committee
2008-2009	AGNR APT Committee
2009-2011	Search Committee for Produce Safety faculty position
2009-2010	AGNR APT Committee
2012	APT Committee for Department of Veterinary Medicine

iii. Campus and University

2000-2002	College Park Senator
2000-2001	Advising Students of Antibiotic Resistance Research Group of Gemstone Program
2004-present	Research Interest Showcase for College Park Scholar Students
2006-2008	College Park Senator
2010-2011	Inauguration Committee for President Wallance Loh

iv. Other: Interdisciplinary Programs

1997-2001	Admission Committee of Graduate Program in Food Science
2000	Faculty Review Committee of Graduate Program in Food Science

2000 Faculty Advisory Committee of Graduate Program in Food Science

2001-2004 Director, Graduate Program in Food Science

5. PROFESSIONAL SOCIETIES

1991-present International Association of Food Protection

1993-present American Society for Microbiology

1995-2007 American Society for the Advancement of Science