

CURRICULUM VITAE

HANG XIAO

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EDUCATION:

- **Ph.D. (Food Science, Food Chemistry)**, Aug. 2004. University of Wisconsin-Madison, USA.
- **B. Eng. (Food Science & Engineering)**, July 1996. Ocean University of Qingdao, Qingdao, P. R. China.

RESEARCH INTERESTS:

My current research is focused on identifying potential cancer preventive dietary components, elucidating their molecular mechanisms, investigating possible synergistic interactions among these dietary components and commonly used pharmacological compounds, enhancing biological activities of dietary components by food processing and nanotechnology, with the long-term goal of developing diet-based strategies for the prevention of cancer. The major approach of this research is the utilization of chemical, biochemical & molecular biology in cell cultures combined with *in vivo* animal models for human cancers.

PROFESSIONAL EXPERIENCE:

- Assistant Professor, Nov. 2007 – present, Department of Food Science, Molecular and Cellular Biology Graduate Program, University of Massachusetts Amherst. *Diet-based strategies for cancer chemoprevention.*
- Research Associate, Aug. 2007 – Nov. 2007, Susan Lehman Cullman Laboratory for Cancer Research, Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of NJ. *Cancer prevention by dietary phytochemicals and combinational regimen.*
- Post-doctoral Research Assistant, Aug. 2005 – Aug. 2007, Susan Lehman Cullman Laboratory for Cancer Research, Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of NJ. *Cancer prevention by dietary phytochemicals and combinational regimen.*
- Post-doctoral Associate, Oct. 2004 – Aug. 2005, Susan Lehman Cullman Laboratory for Cancer Research, Department of Chemical Biology, Ernest Mario School of Pharmacy, Rutgers, The State University of NJ. *Cancer prevention by dietary phytochemicals and combinational regimen.*
- Post-doctoral Associate, Sep. 2004, Department of Food Science, University of Wisconsin-

Madison, WI. *Screening and characterization of anticarcinogenic phytochemicals from Allium Species.*

- Graduate Research Assistant, July 1998 – Aug. 2004, Department of Food Science, University of Wisconsin-Madison, *Identification of bioactive agents from green onion (Allium Spp.) and organoselenium compounds with cancer chemopreventive potential.*

AWARDS AND HONORS:

- IFT Food Chemistry Division Service Award. 2011.
- Future Leader Award nominee, International Life Sciences Institute (ILSI) North America (decision pending). 2011
- Young Scientist Award nominee, American Chemical Society. 2011.
- Louis and Elsa Thomsen Wisconsin Distinguished Fellowship Award, 2003-2004
- First place winner of IFT Student Association/Phi Tau Sigma/Procter & Gamble Graduate Research Paper Competition, IFT (Institute of the Food Technologist) Annual Meeting, Chicago, IL, 2003.
- WIFT (Wisconsin Institute of Food technologist) Graduate Academic Scholarship, 2004-2005.
- Grand Prize winner in the 2nd Annual “Almond Innovations” New Product Development Contest, with “Almond Cravers” (team member), 2004.
- Finalist of the ACS/AGFD Withycombe-Charalambous Graduate Student Symposium (Graduate Research Competition), the 227th ACS (American Chemical Society) National Meeting in Anaheim, CA. 2004.
- Finalist of the Mark Bieber Graduate Student Paper Competition held at IFT Annual Meeting, Las Vegas, Nevada, July 12-16, 2004.
- Finalist (team member) of the IFT Student Association Product Development Contest held at IFT Annual Meeting, Las Vegas, Nevada, 2004.

PROFESSIONAL MEMBERSHIP:

- American Society for Nutrition (ASN)
- American Association for Cancer Research (AACR)
- Institute of Food Technologists (IFT)
- American Chemical Society (ACS)
- International Society for Nutraceuticals and Functional Foods (ISNFF)
- Chinese American Food Society (CAFS)

PEER-REVIEWED JOURNAL PUBLICATIONS:

1. Kashif Ahmed, Yan Li, David Julian McClements, and **Hang Xiao**, (2011) Nanoemulsion- and

- Emulsion-based Delivery Systems for Curcumin: Encapsulation and Release Properties (submitted).
2. Guodong Zhang, Shanshan Guo, Peiju Qiu, Feng Li, Viriya Nitteranon, **Hang Xiao**, Kirk L. Parkin. (2011) Organoselenium Compounds Modulate Extracellular Redox through Induction of Extracellular Cysteine and Cell Surface Thioredoxin Reductase. (submitted).
 3. M.S. Butt, A. Imran, M. K. Sharif, Rabia Shabir Ahmad, **Hang Xiao**, M. Imran and H. A. Rsool. (2011) Black tea polyphenols: A mechanistic treatise. *Critical Reviews in Food Science and Technology* (accepted).
 4. David Julian McClements, **Hang Xiao**. (2011) Potential Biological Fate of Ingested Nanoemulsions: Influence of Particle Characteristics. *Food and Function* (accepted).
 5. Naruemon Mongkontanawat, Romanee Sanguandeeikul, Cheunjit Phakitchaiwattana, **Hang Xiao**, Lynne A. McLandsborough and Pawadee Methacanon. Effect of three additives on the cell morphology and β -glucan production in *Saccharomyces cerevisiae*. *Research Journal of Pharmaceutical, Biological and Chemical Sciences* (in press)
 6. Cheng Qian, Eric Andrew Decker, **Hang Xiao** and David Julian McClements, (2011) Physical and Chemical Stability of Protein-stabilized Nanoemulsions Containing β -Carotene: Influence of pH, Ionic Strength, Temperature and Emulsifier Type (Accepted).
 7. Wasamon Nutakul, Hana Sober, Peiju Qiu, Ping Dong, Eric Andrew Decker, David Julian McClements, and **Hang Xiao**, Inhibitory effects of resveratrol and pterostilbene on human colon cancer cells: a side by side comparison, *Journal of Agriculture and Food Chemistry*. (In press).
 8. Yan Li, Jinkai Zheng, **Hang Xiao**, and David Julian McClements. (2011) Nanoemulsion-based delivery systems for poorly water-soluble bioactive compounds: Influence of formulation parameters on Polymethoxyflavone crystallization and sedimentation. *Food Hydrocolloids* (Accepted).
 9. Seung Jun Choi, Eric Andrew Decker, Lulu Henson, L. Michael Popplewell, **Hang Xiao**, David Julian McClements, Formulation and properties of model beverage emulsions stabilized by sucrose monopalmitate: Influence of pH and lyso-lecithin addition, *Food Research International* (In press).
 10. Cheng Qian, Eric Decker, **Hang Xiao**, and David Julian McClements (2011) Solid Lipid Nanoparticles: Effect of Carrier Oil and Emulsifier Type on Phase Behavior and Physical Stability, *J Am Oil Chem Soc.*, DOI 10.1007/s11746-011-1882-0.
 11. Peiju Qiu, Huashi Guan, Ping Dong, Shiming Li, Chi-Tang Ho, Min-Hsiung Pan, David Julian McClements and **Hang Xiao**. (2011) The inhibitory effect of 5-hydroxy-3,6,7,8,3',4'-hexamethoxyflavone on human colon cancer cells. *Molecular Nutrition and Food Research* doi: 10.1002/mnfr.201100070.
 12. Peiju Qiu, Ping Dong, Huashi Guan, Shiming Li, Chi-Tang Ho, Min-Hsiung Pan, David Julian McClements and **Hang Xiao**. (2011) The p53, Bax and p21 dependent inhibition of colon cancer cell growth by 5-hydroxy polymethoxyflavones. *Molecular Nutrition and Food Research* 55(4):613-22.
 13. Cheng Qian, Eric Decker, **Hang Xiao**, and David Julian McClements (2011) Comparison of Biopolymer Emulsifier Performance in Formation and Stabilization of Orange Oil-in-Water Emulsions. *J. Am. Oil Chem. Soc.* 88: 47-55.
 14. C.-S. Lai, M.-L. Tsai, A.-C. Cheng, S. Li, C.-Y. Lo, Y. Wang, **H. Xiao**, C.-T. Ho, Y.-J. Wang, M.-

- H. Pan (2011) Chemoprevention of colonic tumorigenesis by dietary hydroxylated polymethoxyflavones in azoxymethane-treated mice. *Molecular Nutrition and Food Research*. 55(2):278-90.
15. Yan Li, Min Hu, Yumin Du, **Hang Xiao**, David Julian McClements. (2011) Control of Lipase Digestibility of Emulsified Lipids by Encapsulation within Calcium Alginate Beads, *Food Hydrocolloids*, 25 (1): 122-130..
 16. Yan Li, Min Hu, **Hang Xiao**, Yumin Du, Eric Andrew Decker and David Julian McClements (2010) Controlling the functional performance of emulsion-based delivery systems using multi-component biopolymer coatings, *Eur J Pharm Biopharm*. 76 (1): 38-47.
 17. Qiu, P.; Dong, P.; Guan, H.; Li, S.; Ho, C.T.; Pan, M.H.; McClements, D.J. and **Xiao, H.** (2010) Inhibitory effects of 5-hydroxyl polymethoxyflavones on colon cancer cells. *Molecular Nutrition and Food Research*. 54 Suppl 2:S244-52.
 18. Lu, G.; **Xiao, H.**; Li, G.; Chen, Y.K.; Hao, H.; Loy, S.; and Yang, C.S. (2010) A γ -Tocopherol-rich mixture of tocopherols inhibits chemically-induced lung tumorigenesis in A/J mice and xenograft tumor growth. *Carcinogenesis*. 31(4):687-94.
 19. Li, G.; Chen, Y.K.; Hou, H.; **Xiao, H.**; Jin, H.; Lu, G.; Lee, M.J.; Liu, B.; and Yang, C.S. (2010) Cancer Inhibitory and Pro-oxidative Activities of (-)-Epigallocatechin-3-gallate in Lung Cancer Cells: A Comparative Study in vivo and in vitro. *Carcinogenesis*. 31(5):902-10.
 20. Dong, P.; Qiu, P.; Zhu, Y.; Li, S.M.; Ho, C.T.; and **Xiao, H.** (2010) Simultaneous Determination of Four 5-Hydroxy Polymethoxyflavones by reversed-phase high performance liquid chromatograph with electrochemical detection. *Journal of Chromatography A*. 29;1217(5):642-7
 21. Hu, M.; Decker, E.A.; **Xiao, H.**; and McClements, D.J. (2010) Influence of Tripolyphosphate Cross-Linking on the Physical Stability and Lipase Digestibility of Chitosan-Coated Lipid Droplets. *J Agric Food Chem*. 27;58(2):1283-9.
 22. Li, S.M.; Wang, Y.; Wang, Z.Y.; **Xiao, H.**; Rawson, N.; and Ho, C.T., (2009) Quantitative analysis of hydroxylated polymethoxyflavones by high performance liquid chromatography. *Biomed. Chromatogr*. 24(8):838-45.
 23. **Xiao, H.**, (2009) Potential enhancement of cancer inhibition by using statins in combination with pharmacological and dietary agents. *Cancer & Chemotherapy Reviews* 4(4): 183-92
 24. Li, Y.; Le Maux, S; **Xiao, H.**, McClements, D.J., (2009) Emulsion-based delivery systems for tributyrin: a potential cancer preventive agents. *Journal of Agriculture and Food Chemistry*. 57, 9243-9249.
 25. Yang, Z. **Xiao, H.**, Jin, H., Tsang, D., Koo, P. and Yang, C.S., (2009) Synergistic Actions of Atorvastatin with γ -Tocotrienol and Celecoxib against Human Colon Cancer HT29 and HCT116 Cells. *International Journal of Cancer*. 126(4):852-63.
 26. **Xiao, H.**, Yang, C.S., Li, S., Jin, H., Ho, C., and Patel, T. (2009) Monodemethylated polymethoxyflavones from sweet orange (*Citrus sinensis*) peel inhibit growth of human lung carcinoma cells by apoptosis. *Molecular Nutrition and Food Research*, 53(3): 398-406.
 27. Ju, J., Hao, X., Lee, M.J., Lambert, J., Lu, G., **Xiao, H.**, Newmark, H., and Yang, C.S. (2009) γ -Tocopherol-rich mixed tocopherols inhibit colon tumorigenesis in azoxymethane and dextran sulfate sodium-treated mice. *Cancer Prevention Research*, 2(2):143-52.
 28. Liu, Y., Ju, J., **Xiao, H.**, Simi, B., Hao, X., Reddy, B.S., Huang, M.T., Newmark, H. and Yang,

- C.S. (2008) Effects of combination of calcium and aspirin on azoxymethane-induced aberrant crypt foci formation in the colons of mice and rats. *Nutrition and Cancer*, 60(5):660-5.
29. **Xiao, H.**, and Yang, C.S. (2008) Combination regimen with statins and NSAIDs: a promising strategy for cancer chemoprevention. *International Journal of Cancer*, 123(5):983-90.
 30. Liu, Y., **Xiao, H.**, Hao, X., Lee, H.J., Suh, N., Yang, C.S., Minden, A. (2008) The Pak4 protein is overproduced in tumors, and causes tumorigenesis in mice. *Molecular Cancer Research* 6(7):1215-24.
 31. **Xiao, H.**, Hao, X., Simi, B., Jiang, H., Ju, J., Reddy, B., and Yang, C.S. (2008) Green tea polyphenols inhibit colorectal aberrant crypt foci (ACF) formation and prevent oncogenic changes in dysplastic ACF in azoxymethane-treated F344 rats. *Carcinogenesis* 29(1): 113-9.
 32. **Xiao, H.**, Zhang, Q., Lin, Y., Reddy, B., and Yang, C.S. (2008) Combination of atorvastatin and celecoxib synergistically induces cell cycle arrest and apoptosis in colon cancer cells. *International Journal of Cancer* 122(9):2115-24.
 33. Lu, G., **Xiao, H. (Co-first author)**, You, H., Lin, Y. Snagaski, B., and Yang, C.S. (2008) Synergistic inhibition of lung tumorigenesis by a combination of green tea polyphenols (PPE) and atorvastatin. *Clinical Cancer Research*, 14(15):4981-8.
 34. Yang, C.S., Ju, J., Lu, G., **Xiao, H.**, Hao, X., Sang, S., and Lambert, J. (2008) Cancer prevention by tea and tea polyphenols. *Asian Pacific Journal of Clinical Nutrition* 17 Suppl 1:245-8.
 35. **Xiao, H.** and Parkin, K.L. (2007) Isolation and identification of potential chemopreventive agents from methanolic extract of green onion (*Allium spp.*) guided by phase II enzyme bioassay. *Phytochemistry* 68(7):1059-67.
 36. Suh, N., Paul S., Hao, X., Simi, B., **Xiao, H.**, Ramando, A.M. and Reddy, B.S. (2007) Pterostilbene, an active constituent of blueberries, suppresses aberrant crypt foci formation in the azoxymethane-induced colon carcinogenesis model in rats. *Clinical Cancer Research* 13(1):350-5.
 37. **Xiao, H.** and Parkin, K.L. (2006). Phase II enzyme induction by various selenium compounds. *Nutrition and Cancer*. 55:210-223.
 38. **Xiao, H.** and Parkin, K.L. (2006). Isolation and identification of potential chemopreventive agents from non-polar extracts of green onion (*Allium spp.*) guided by phase II enzyme bioassay. *J. Agric. Food Chem.* 54(22):8417-24.
 39. **Xiao, H.** and Parkin, K.L. (2002). Antioxidant functions of selected *Allium* thiosulfinates and S-alk(en)yl-L-cysteine sulfoxides. *J. Agric. Food Chem.* 50:2488-2493.
 40. Shen, C., **Xiao, H.** and Parkin, K.L. (2002) *In vitro* stability and chemical reactivity of thiosulfinates. *J. Agric. Food Chem.* 50:2644-2651.
 41. Wettasinghe M., Bolling B., Plhak, L. C. **Xiao, H.** and Parkin, K.L. (2002) Phase II enzyme-inducing and antioxidant activities of extracts of beetroot (*Beta vulgaris L.*). *J. Agric. Food Chem.* 50:6704-6709.
 42. Briggs, W.H., **Xiao, H.**, Parkin, K.L., Shen, C. and Goldman, I.L. (2000) Differential inhibition of human platelet aggregation by selected *Allium* thiosulfinates. *J. Agric. Food Chem.* 48:5731-5735.
 43. Briggs, W.H., Folts, J.D., Osman, H.E., **Xiao, H.** Parkin, K.L. and Goldman,

I.L. (2000) Administration of Onion (*Allium cepa*) Abolishes In vivo Platelet-Mediated Thrombosis. *Proceeding of the Third International Symposium on Edible Alliaceae* 122-126.

44. Gu, Q.Q., Fang, Y.C., Wang, C.Y., **Xiao, H.**, and Qin, Y.Q. (1998) Studies on the antitumor activity and isolation of the glycoprotein from the gonad of *Chlamys (Azumapecten) Farreri*. *Chin. J. Oceanol. Limnol.* Vol. 16, No. 4, 359-363.
45. Chu, C.L., Gu, Q.Q., Fang, Y.C., **Xiao, H.**, and Zheng, Y. Z. (1998) Bioactive components from Ascidian. *Chinese Journal of Marine Drugs.* (67), 35-46.

BOOK CHAPTERS:

- **Hang Xiao**, Advances in the use of animal models for intestinal cancers and protective effects of dietary components, in “*Designing functional foods: understanding, measuring and controlling food structure breakdown and nutrient absorption for the development of health-promoting foods*”, Editor: David J. McClements and Eric A. Decker, 2009, Woodhead Publishing, London UK.

PATENTS:

- Delivery systems based on nanolaminated dietary fiber coating of encapsulated bioactive compounds, D.J. McClements. (pending)

ABSTRACTS AND MEETING PRESENTATIONS:

1. **Hang Xiao**, Enhancement of anticarcinogenic activities of polymethoxyflavones by biotransformation in mice and rats. Young Scientist Award Symposium, Division of Agricultural and Food Chemistry, 242nd ACS National Meeting, Denver, CO, Aug. 28 – Sep. 1, 2011
2. David Julian McClements and **Hang Xiao**, Nanoemulsion-based delivery systems for nutraceuticals: design, properties & applications, 4th International Symposium on the Delivery of Functionality in Complex Food Systems, Guelph, Ontario, Canada, August 21-24, 2011.
3. David Julian McClements, Yuhua Chang, Myriam Loeffler, Lynne McLandsborough, **Hang Xiao**, Development and application of food-grade antimicrobial nanoparticles. Institute of Food Technologist Annual Meeting, New Orleans, LA, June 11-14, 2011.
4. Peiju Qiu, Noppawat Charoensinphon, Jinkai Zheng, Mingyue Song, Ping Dong, Ryan Riddle, **Hang Xiao**, Novel combinatorial strategies for cancer chemoprevention using polymethoxyflavones from orange and atorvastatin. The AACR (American Association for Cancer Research) annual meeting. Orlando FL, April, 2011.
5. Peiju Qiu, Jinkai Zheng, Shanshan Guo, Mingyue Song, **Hang Xiao**, The inhibitory effect of 5-hydroxy-3,6,7,8,3',4'-hexamethoxyflavone (5HHMF) on human colon cancer cells, Experimental Biology 2011 Annual Meeting Washington. DC, April 2011.
6. Shanshan Guo, Peiju Qiu, Ping Dong, **Hang Xiao**, Synergistic anti-inflammatory effects of combination of Nobiletin and Sulforaphane in lipopolysaccharide-stimulated RAW 264.7 cells. Experimental Biology 2011 Annual Meeting. Washington DC, April 2011.

7. Wasamon Nutakul, Peiju Qiu, Ping Dong, David Julian McClements, Eric Decker, **Hang Xiao**, Antiangiogenic effects of citrus Polymethoxyflavones and their derivatives. Experimental Biology 2011 Annual Meeting. Washington DC, April 2011.
8. Peiju Qiu, Mingyue Song, Shanshan Guo, Jinkai Zheng, Noppawat Charoensinphon, Wasamon Nutakul, Pearline Ngauv, **Hang Xiao**, Bioavailability of anti-carcinogenic hydroxylated polymethoxyflavones in mice. Experimental Biology 2011 Annual Meeting. Washington DC, April 2011.
9. Noppawat Charoensinphon, Peiju Qiu, Ping Dong, Jinkai Zheng, Pearline Ngauv, **Hang Xiao**, Inhibitory Effect of 5-hydroxy Tangeretin on Human Non-Small Cell Lung Cancer Cell. Experimental Biology 2011 Annual Meeting. Washington DC, April 2011.
10. Noppawat Charoensinphon, Peiju Qiu, Ping Dong, Jinkai Zheng, Pearline Ngauv, **Hang Xiao**, Synergistic inhibition of lung cancer cell growth by Tangeretin and Atorvastatin. Experimental Biology 2011 Annual Meeting. Washington DC, April 2011.
11. Peiju Qiu, Noppawat Charoensinphon, Ryan Riddle, Shiming Li, Min-Hsiung Pan, Chi-Tang Ho, and **Hang Xiao**, Novel strategies for cancer chemoprevention using polymethoxyflavones from orange. International Society of Nutraceuticals and Functional Foods Annual Meeting, Bali Indonesia, Oct. 11-15, 2010. (invited)
12. **Hang Xiao**, Hydroxylated polymethoxyflavones from orange peel as novel cancer preventive agents. American Chemical Society 240th National Meeting. Boston, MA, Aug 22-26, 2010 (invited)
13. Noppawat Charoensinphon, Peiju Qiu, Ping Dong, and **Hang Xiao**, Inhibition of lung cancer cell growth by polymethoxyflavones from sweet orange. Experimental Biology 2010 Annual Meeting Anaheim, CA, April 24-28, 2010. (invited)
14. Peiju Qiu, Huashi Guan, Ping Dong, and **Hang Xiao**, Hydroxylated polymethoxyflavones induce p53 and Bax dependent apoptosis and cell cycle arrest. Experimental Biology 2010 Annual Meeting Anaheim, CA, April 24-28, 2010. (invited)
15. Peiju Qiu, Ping Dong, Ryan Riddle, and **Hang Xiao**, Synergistic inhibition of colon cancer cell growth by 5-hydroxy nobiletin and atorvastatin. Experimental Biology 2010 Annual Meeting Anaheim, CA, April 24-28, 2010.
16. Wasamon Nutakul, Hana Sober, Peiju Qiu, Ping Dong, and **Hang Xiao**, Inhibitory effects of resveratrol and pterostilbene on human colon cancer cells: a side-by side comparison. Experimental Biology 2010 Annual Meeting Anaheim, CA, April 24-28, 2010. (invited)
17. Ping Dong, Peiju Qiu, Changhu Xue, Huashi Guan, **Hang Xiao**, Holothurin A, a sea cucumber triterpene glycoside inhibits the growth of colon cancer cells. The International Symposium on Seafood Processing Technology and Safety Control System, Qingdao, Shandong, China, Oct. 31-Nov. 2, 2009. (invited)
18. **Hang Xiao**, Ping Dong, Peiju Qiu, Shiming Li, and Chi-Tang Ho, Anti-carcinogenic Effects of Hydroxylated Polymethoxyflavones from Orange, Institute of Food Technologist Annual Meeting, Anaheim, CA, June 06-10, 2009.
19. **Xiao, H.**, Li, S., Jin, H., Yang, C.S., and Ho, C.T. Hydroxylated polymethoxyflavones: a novel class of agents for colon cancer prevention. Frontiers in Cancer Prevention Research Annual Meeting Washington D.C. Nov. 16-19, 2008

20. Ju, J., Hao, X., Lee, M., Lu, G., Lambert, J., Sang, S., **Xiao, H.**, Newmark, H., and Yang, C.S. (2008) g-Tocopherol-rich mixed tocopherols (g-TmT) inhibit colon inflammation and carcinogenesis in azoxymethane (AOM) and dextran sulfate sodium (DSS)-treated mice. The AACR (American Association for Cancer Research) annual meeting. San Diego, CA, April, 2008.
21. Yang, Z., **Xiao, H.**, Ju, J., Jin, H., and Yang, C.S. (2008) Analysis of synergistic actions in a triple combination of g-tocotrienol (g-TT) atorvastatin (ATST) and celecoxib (CXIB). The AACR (American Association for Cancer Research) annual meeting. San Diego, CA, April, 2008.
22. **Xiao, H.**, Hao, X., Simi, B., Ju, J., Lee, M., Lu, G., Reddy, B., and Yang, C.S. (2007) Inhibition of colorectal tumorigenesis in azoxymethane (AOM)-treated rats by green tea polyphenols. Frontiers in Cancer Prevention Research Annual Meeting. Philadelphia, PA. Dec. 15-18, 2007.
23. Lu, G., **Xiao, H. (Co-first author)**, You, H., Lin, Y., Snagaski, B., and Yang, C.S. (2007) Synergistic effects of a novel combination of polyphenon E and atorvastatin in inhibition of lung tumor. Frontiers in Cancer Prevention Research Annual Meeting. Philadelphia, PA. Dec. 15-18, 2007.
24. Hao, X., **Xiao, H.**, Bose, M., Ju, J., Lu, G., Lee, M-J., Lambert, J., and Yang, C.S. (2007) Inhibition of Tumorigenesis in ApcMin/+ Mice and Azoxymethane (AOM)-treated Rats by Green Tea Polyphenols. Fourth International Scientific Symposium on Tea and Human Health. Washington, D.C. Sep. 18, 2007.
25. **Xiao, H.**, Hao, X., Simi, B., Jiang, H., Reddy, B., and Yang, C.S. (2007) Inhibition of azoxymethane (AOM)-induced colorectal aberrant crypt foci in F344 rats by green tea polyphenols. The 98th AACR (American Association for Cancer Research) annual meeting. Los Angeles, CA, April 14-18, 2007.
26. Lu, G., **Xiao, H. (Co-first author)**, You, H., and Yang, C.S. (2007) Inhibition of Lung Tumorigenesis by Combination of Polyphenon E and Atorvastatin in 4-(Methylnitrosamino)-1-(3-Pyridyl)-1-Butanone (NNK) induced A/J Mice. The 98th AACR (American Association for Cancer Research) annual meeting. Los Angeles, CA, April 14-18, 2007.
27. **Xiao, H.** and Yang, C.S. (2007) Synergistic interaction between green tea polyphenols and atorvastatin in growth inhibition of colon cancer cells. Cancer Institute of New Jersey Annual Retreat. Piscataway, NJ, May, 2007.
28. Lu, G., **Xiao, H. (Co-first author)**, You, H., Snagaski, B. and Yang, C.S. Lung Cancer Chemoprevention by Combination of Polyphenon E and Atorvastatin. Cancer Institute of New Jersey Annual Retreat. Piscataway, NJ, May, 2007.
29. **Xiao, H.**, Zhang, Q., Reddy, B., and Yang, C.S. (2006) Combinational regimen with celecoxib and atorvastatin causes cell cycle arrest and induces apoptosis in colon cancer cells. The 97th AACR (American Association for Cancer Research) annual meeting. Washington, DC, April 1-5, 2006.
30. Hou, Z., **Xiao, H.**, Lambert, J., You, H., and Yang, C.S. (2006) Green tea polyphenol, (-)-epigallocatechin-3-gallate, induces oxidative stress and DNA damage in cancer cell lines, xenograft tumors, and mouse liver. The 97th AACR (American Association for Cancer Research) annual meeting. Washington, DC, April 1-5, 2006.
31. **Xiao, H.**, Zhang, Q., Reddy, B., and Yang, C.S. (2006) The synergy between celecoxib and atorvastatin in growth inhibition of human colon cancer cells. Cancer Institute of New Jersey Annual Retreat. Piscataway, NJ, May, 2006.

32. Hou, Z., **Xiao, H.**, Lambert, J., You, H., and Yang, C.S. (2005) Intracellular Generation of ROS and Up-regulation of Oxidative Stress Markers Induced by EGCG *In Vitro* and *In Vivo*. Frontiers in Cancer Prevention Research Annual Meeting (AACR).
33. **Xiao, H.** and Parkin, K.L. (2004) Isolation and Identification of Constituents from Green Onion (*Allium spp.*) capable of inducing Phase II Enzyme Activity in Murine Hepatoma (Hepa 1c1c7) cells. ACS/AGFD Withycombe-Charalambous Graduate Students Symposium (Graduate Research Competition) held in conjunction with the 227th ACS National Meeting in Anaheim, CA. March 28 – April 1, 2004.
34. **Xiao, H.** and Parkin, K.L. (2004) Isolation and identification of chemo-preventive constituents from Green Onion (*Allium fistulosum*). IFT Annual Meeting, Las Vegas, Nevada, July 12-16, 2004.
35. **Xiao, H.** and Parkin, K.L. (2003) Induction of Phase II enzyme Activity in Murine Hepatoma (Hepa 1c1c7) cells by Green Onion (*Allium spp.*) IFT Annual Meeting, Chicago, IL, July 12-16.
36. Parkin, K., Wettasinghe, M., **Xiao, H.**, Lee, C-H., Bolling, B., Plhak, L. and L.L. Ji. (2002). Isolation and identification of potentially cancer chemopreventive agents in table beets (*Beta vulgaris L.*) roots. American Chemical Society National Meeting, Boston, MA, August 18-22 (Invited).
37. Ji, L.L., Lay, D., Chung, E., Fu, Y., Brickson, S., Parkin, K.L., **Xiao, H.** and Peterson, D.M. (2002). Effects of avenanthramides supplementation on oxidant and antioxidant status in rats. Abstract for Experimental Biology (FASEB) 2002 meeting, New Orleans, LA, April 20-24.
38. Parkin, K.L., Wettasinghe, M., Bolling B., **Xiao, H.**, Peterson, D., and Plhak, L., (2002) Methodological considerations for the murine hepatoma cell bioassay-directed isolation of cancer chemopreventive agents. Abstract for the 223rd ACS national meeting, division of agricultural and food chemistry. Orlando, Florida April 7-11 (Invited).
39. **Xiao, H.**, and Parkin, K.L., (2001) Antioxidant activities of selected *Allium* thiosulfinates. Abstract for IFT Annual Meeting, New Orleans, LA, June 23-27 2001.
40. Wettasinghe, M., **Xiao, H.**, Bolling, B., and Parkin, K.L., (2001) Induction of phase II enzyme activity in murine hepatoma (hepa 1c1c7) cells by selected vegetables extracts. Abstract for IFT Annual Meeting, New Orleans, LA, June 23-27 2001.
41. Shen, C., **Xiao, H.**, Rajan, S., Briggs, W.H., Goldman, I.L., Verma, A. Ingham, S.C. and Parkin, K.L. (2000) Bioactivity of thiosulfinates from Alliums. Abstract for symposium on "Functional food ingredients: trends and prospects", Pacificchem 2000 meeting, Honolulu, HI, December 14-19.
42. Shen, C., **Xiao, H.**, Rajan, S., Briggs, W.H., Goldman, I.L., Verma, A., Ingham, S.C. and Parkin, K.L. (2000) Bioactivity of thiosulfinates from Alliums. Abstract for symposium on "Bioactive components of functional foods", Worldnutra international conference and exhibition on functional foods and nutraceuticals, Houston, TX, September 13-17.
43. Briggs, W.H., Folts, J.D., Osman, H.E., **Xiao, H.**, Parkin, K.L. and Goldman, I.L. (2000) Administration of onion abolishes platelet-mediated thrombosis in stenosed canine coronary arteries. Abstract for Experimental Biology (FASEB) 2000 meeting, San Diego, CA, April 15-18.
44. **Xiao, H.** and Parkin, K.L., (2000) Antioxidant activities of phytochemicals from *Allium* Species.

Poster competition finalist for The 14th Annual Food Science Club Symposium. Edgewater Hotel, Madison, WI. April 4th.

45. Briggs, W.H., **Xiao, H.**, Parkin, K.L. and Goldman, I.L. (1999). Differential human antiplatelet activity of selected *Allium* thiosulfinates. Abstract for American Society for Horticultural Science annual meeting, Minneapolis, MN, July 28-31.

INVITED ACTIVITIES:

1. Invited talk: Enhancement of anticarcinogenic activities of polymethoxyflavones by biotransformation in mice and rats. Young Scientist Award Symposium, Division of Agricultural and Food Chemistry, 242nd ACS National Meeting, Denver, CO, Aug. 2011.
2. Invited talk: Development and functional studies of nanoemulsions. Symposium on nano-technology in Food, Jiangnan University, Wuxi, China. Sep. 2011.
3. Invited talk: New horizons of Food Science: focusing on the nutraceuticals. The 1st Annual Seafood Summer Camp, Ocean University of China, Qingdao, China. July 26, 2011.
4. Invited talk: Utilization of nutraceuticals from orange peel for disease-prevention. College of Food Science and Nutrition, China Agriculture University, Beijing China. July 29, 2011.
5. Invited talk: The nutraceutical research in USA, College of Food Science, South China Agriculture University, Guangzhou, China. Aug. 2, 2011.
6. Invited talk: Bioavailability: an important factor for health-promoting effects of food components, Food Science Strategic Research Alliance Meeting, University of Massachusetts Amherst. April 07, 2011.
7. Invited talk: Research on bioactive food components, Pakistan-US Science and Technology conference (National Academy of Sciences), Dubai, UAE. March 17, 2011.
8. Invited talk: Food that fights cancer. Seminar for Junior Fellows in the Life Sciences, University of Massachusetts, Amherst. March 07, 2011.
9. Invited talk: Diet-based strategies for cancer inhibition. Dept. of Veterinary & Animal Sciences, University of Massachusetts, Amherst. March 02, 2011.
10. Invited talk: Frontiers in cancer prevention by dietary components. Dept. of Food Science, Zhejiang University, Hangzhou, Zhejiang, China. Dec. 2010.
11. Invited talk: Diet and cancer chemoprevention. National Key laboratory of Food Science, Jiangnan University, Wuxi, Zhejiang, China. Dec. 2010.
12. Invited talk: Diet-based Research on health-promotion, Biology BioTap group seminar, University of Massachusetts, Amherst. Dec. 06, 2010.
13. Invited talk: Novel strategies for cancer chemoprevention using polymethoxyflavones from orange. International Society of Nutraceuticals and Functional Foods Annual Meeting, Bali Indonesia, Oct. 11-15, 2010.
14. Invited talk: Hydroxylated polymethoxyflavones from orange peel as novel cancer preventive agents. American Chemical Society 240th National Meeting, Boston, MA, Aug, 2010

15. Invited talk: Diet-based strategies for health promotion. College of Food Science, South China Agricultural University, Guangzhou, Guangdong, China. June 2010.
16. Invited talk: Mechanisms of action: how dietary components interact with pharmaceutical drugs to inhibit carcinogenesis. College of Medicine and Pharmaceutical, Ocean University of China, Qingdao Shandong China. July 2010.
17. Invited talk: Health-promoting effects of dietary polyphenolic compounds. Ocean Spray International, Inc. June 2010.
18. Invited talk: Fighting cancer with food, PepsiCo Corp. Valhalla NY, April 2010.
19. Invited talk: Anti-carcinogenic effects of dietary factors. Coca-Cola Company, June 2010.
20. Invited talk: Overview of research on food and health in UMass. ConAgra Company, Nov. 2009.
21. Invited talk: Novel strategies for functional food research. General Mills Company, Dec. 2009.
22. Invited talk: Anti-cancer components from food. Department of Chemistry, Western Connecticut State University, Danbury, CT. April 17, 2009.
23. Invited talk: Colon and lung cancer prevention by tea polyphenols and their combination with atorvastatin. Jean Mayer USDA Human Nutrition Research Centre on Aging, Tufts University, Boston, MA. July, 29 2008.
24. Invited talk: Cancer prevention by dietary components: a promising approach to controlling cancer. Seminar for honour students, Quinsigmond Community College, Worcester, MA. Feb. 2008.
25. Invited talk: Cancer chemoprevention by atorvastatin in combination with celecoxib and green tea polyphenols. Honour symposium for the research achievements of Dr. Bandaru S. Reddy, Department of Chemical Biology, Rutgers, the State University of New Jersey, Dec, 2007.
26. Invited talk: Inhibition of colorectal tumorigenesis in azoxymethane (AOM)-treated rats by green tea polyphenols. Frontiers in Cancer Prevention Research Annual Meeting. Philadelphia, PA. Dec, 2007
27. Invited talk: Carcinogenesis and chemoprevention, in the perspective of dietary interaction. Department of Agro-Industry, King Mongkut's Institute of Technology, Bangkok, Thailand. Dec. 2001.
28. Invited talk: Phase II enzyme bioassay-directed isolation of chemopreventive phytochemicals from *Allium* species vegetables. Department of Agro-Industry, King Mongkut's Institute of Technology, Bangkok, Thailand. Dec. 2001.

RESEARCH GRANTS (TOTAL OF MORE THAN \$3.3 MILLION)

1. CA139174-01, (Hang Xiao – Principal Investigator), 07/01/10-06/30/12, NIH. “Synergistic Chemoprevention of Colon Cancer by Hydroxylated Polymethoxyflavones”.
2. EPA-G2010-STAR-N2 Food Matrices Program, (Hang Xiao – Principal Investigator, CO-PI: D.J. McClements and E. Decker), 01/01/2011-12/31/2013, EPA-USDA-NSF. “Influence of Nanoparticle Characteristics on Fate, Bioavailability, and Toxicity of Food-Grade Nanoemulsions”

3. AICR cancer research grant, (Hang Xiao – Principal Investigator), 01/01/2011-12/31/2012, AICR (American Institute for Cancer Research). “Synergistic Inhibition of Colon Carcinogenesis by 5-Hydroxyl Nobiletin and Atorvastatin”
4. CSREES Higher Education Food and Agricultural Sciences National Needs Grants Program, (Hang Xiao – Principal Investigator, Co-PIs, E. Decker, D. J. McClements, Y. Park, P. Dubin, R. Vachet, and R. Shao), 01/01/10 – 12/31/14, USDA. “Food Science Graduate Training in Food and Health with Emphasis on Ingredient Delivery Systems and Food Policy”.
5. MASSACHUSETTS CENTER FOR AGRICULTURE, INTEGRATED PROPOSALS ADDRESSING: Agricultural & Natural Resources Systems (Hang Xiao – Principal Investigator, Co-PIs: D.J. McClements, E. Decker), 09/01/09 – 08/31/12, USDA. “Novel Food-based Delivery of Butyrate-enriched Milk Fat for Colon Cancer Prevention”.
6. Pakistan-US Science and Technology Cooperation Program, (Hang Xiao – Principal Investigator, US-side), 10/01/10-09/30/12, The National Academies (USA). “Establishment of a functional and nutraceutical food research section at the National Institute of Food Science and Technology, University of Agriculture, Faisalabad”
7. Center of Excellence in Apoptosis Research Pilot Grants Program, (Hang Xiao – Principal Investigator, Co-PI: Rong Shao), 11/01/09 – 10/31/10 Pioneer Valley Life Science Institute, John Adams Innovation Institute, “Inhibition of lung carcinogenesis by 5-hydroxyl tangeretin through pro-apoptosis and anti-angiogenesis”.
8. Faculty Research/Healey Endowment Grant, (Hang Xiao – Principal Investigator), 06/01/09-05/31/10, University of Massachusetts Amherst, “Chemoprevention of Colon Carcinogenesis by Hydroxylated Polymethoxyflavones”.
9. Commercial Ventures & Intellectual Property Technology Development Fund, (Hang Xiao – Principal Investigator), 05/01/09-04/30/10, University of Massachusetts Amherst , “Colon-specific delivery systems based on nano-laminated dietary fiber coating of encapsulated bioactive compounds for chemoprevention of colorectal diseases”.
10. USDA-National Research Initiative, Competitive Grants Program, (PI: D.J. McClements, Co-PI: Hang Xiao, L. McLandsborough), 11/01/10-10/31/14, USDA. “Fabrication, Characterization & Toxicology of Antimicrobial Nanoparticle Delivery Systems”
11. USDA Special Grant, (PI: Y. Park, Co-PIs: H. Xiao, S. R. Nugen, J. Goddard, D. J. McClements, E. A. Decker, K. Shetty, R. E. Levine, R. G. Labbe, and L. McLandsborough), 04/2010-03/2012, USDA “Bioactive Foods Research for Health and Food Safety”.
12. USDA-National Research Initiative, Competitive Grants Program, (PI: D.J. McClements, Co-PI: E. Decker and Hang Xiao), 01/01/09-12/31/11, USDA. “Designing Novel Food Functionality through Controlled Biopolymer Phase Separation”.
13. CSREES MAS00919, (PI: Yeonhwa Park, Co-PI: Hang Xiao), 01/01/08-12/31/10, USDA, “Investigating conditions and mechanisms by which conjugated linoleic acid improves bone mass”

TEACHING AND MENTORING ACTIVITIES

Classroom Teaching

Food Science 101: Food and Health (3 Credits)

- Fall 2008
Number of students: 222
- Fall 2009
Number of students: 205
- Fall 2010
Number of students: 103
- Spring 2011
Number of students: 129
- Fall 2011
Number of students: 107

Honors 391D Advanced Honors Seminar: Foods that can prevent cancer (1 credit)

- Fall 2010
Number of students: 12

FS745 Advanced Food Biochemistry (4 credit)

- Fall 2011
Number of students: 22

Guest Lectures

- Molecular medicine ANIMLSCI 672, anti-carcinogenic activity of dietary components, Feb. 19, 2009
- Anti-cancer components from food, Department of Chemistry, Western Connecticut State University, Danbury, CT. April 17, 2009
- Cancer prevention by dietary components: a promising approach to controlling cancer. Seminar for honour students, Quinsigmond Community College, Worcester, MA. Feb. 2008.

Advising and mentoring

| Name | Position | Advising Role | Year (s) |
|---------------------------------|-------------------------|----------------------------|-----------------|
| Post-Doctoral Associates | | | |
| Jinkai Zheng | Post-Doctoral Associate | Principal Supervisor | 2010-present |
| Ping Dong | Post-Doctoral Associate | Principal Supervisor | 2008-2010 |
| Ming Hu | Post-Doctoral Associate | Co-Principal Supervisor | 2009-2010 |
| Yan Li | Post-Doctoral Associate | Co-Principal Supervisor | 2010-present |

**Graduate
Students**

| | | | |
|-------------------------|--|----------------------|--------------|
| Noppawat Charoensinphon | Ph.D. Student | Principal Supervisor | 2008-present |
| Wasamon Nutakul | Ph.D. Student | Principal Supervisor | 2008-present |
| Kashif I. Ahmed | M.S. Student | Principal Supervisor | 2008-2010 |
| Hana Sobers | M.S. Student | Principal Supervisor | 2008-present |
| Pearline Ngauv | M.S. Student | Principal Supervisor | 2010-2011 |
| Longfang Li | M.S. Student | Principal Supervisor | 2010-present |
| Mingyue Song | Ph.D. student | Principal Supervisor | 2010-present |
| Christina DiMarco-Crook | Ph.D. student (USDA National Needs scholarship Fellow) | Principal Supervisor | 2010-present |
| Xian Wu | M.S. Student | Principal Supervisor | 2011-present |
| Bonnie Le | M.S. Student | Principal Supervisor | 2011-present |
| Fei Xu | Ph.D. student | Principal Supervisor | 2011-present |
| Jingjing Chen | Ph.D. student | Principal Supervisor | 2011-present |
| Changchu Ma | M.S. student | Principal Supervisor | 2011-present |
| Minqi Wang | M.S. student | Principal Supervisor | 2011-present |
| Erica Mao | Ph.D. Student | Committee member | 2009-present |
| Ying Yang | Ph.D. Student | Committee member | 2010-present |
| Cheng Qian | Ph.D. Student | Committee member | 2009-present |
| Owen Jones | Ph.D. Student | Committee member | 2008-2009 |
| Ketinun Kittipongittaya | Ph.D. Student | Committee member | 2009-present |
| Young-Hee Cho | Ph.D. Student | Committee member | 2008-2009 |
| Atikon Panya | Ph.D. Student | Committee member | 2008-present |
| Yuhua Chang | Ph.D. Student | Committee member | 2008-2009 |
| Jiajia Rao | Ph.D. Student | Committee member | 2009-present |
| Alison Matalanis | Ph.D. Student | Committee member | 2009-present |
| Sieyon Rhee | M.S. Student | Committee member | 2008-2009 |
| Lindsay Drennan | Ph.D. Student | Committee member | 2011-present |
| Tanushree Togle | Ph.D. Student | Committee member | 2010-present |

Undergraduate Studnets

| | | | |
|------------------|--------------------------------------|------------------|--------------|
| Ryan Collins | B.S. Student | Research Advisor | 2008 |
| Ryan Riddle | Summer Research Program B.S. Student | Research Advisor | 2008 |
| Pooja Nagda | B.S. Student | Research Advisor | 2010 |
| Ryan Rogan | B.S. Student | Research Advisor | 2010 |
| Thony Tran | B.S. Student | Research Advisor | 2010-2011 |
| Jon Wong | B.S. Student | Research Advisor | 2010, 2011 |
| Danial Sheroff | Honor's Thesis | Research Advisor | 2010 |
| Pearline Ngauv | B.S. Student | Research Advisor | 2009-2010 |
| Anthonia Beluchu | B.S. Student | Research Advisor | 2009-2010 |
| Michael Wong | B.S. Student | Research Advisor | 2010-present |
| Alissa Allen | B.S. Student | Research Advisor | 2010-2011 |
| Julia Curran | B.S. Student | Research Advisor | 2010-present |
| Isaias Rodrigues | B.S. Student | Research Advisor | 2010 |
| Bonnie Le | B.S. Student | Research Advisor | 2010-2011 |
| Sandra Smart | B.S. Student | Research Advisor | 2011-present |
| John Aiken | B.S. Student | Academic Advisor | 2009-present |

| | | | |
|--------------------|--------------|------------------|--------------|
| Courtney Anderson | B.S. Student | Academic Advisor | 2008-present |
| Victoria Boushell | B.S. Student | Academic Advisor | 2009-present |
| Terri Chai | B.S. Student | Academic Advisor | 2009-present |
| Jacquelyn Fletcher | B.S. Student | Academic Advisor | 2008-present |
| Lauren Gong | B.S. Student | Academic Advisor | 2009-present |
| Kimberly Patrick | B.S. Student | Academic Advisor | 2008-present |
| Frederick Williams | B.S. Student | Academic Advisor | 2009-present |

Undergraduate Lab Assistants

| | | | |
|-----------------|--------------|------------|--------------|
| Joseph Pariseau | B.S. Student | supervisor | 2008-present |
|-----------------|--------------|------------|--------------|

Visiting Scholars

| | | | |
|----------------|--|-----------------------|--------------|
| Solene Le Maux | | Research Supervisor | 2008 |
| Yan Li | | Research Supervisor | 2008-2011 |
| Yi Zhu | | Research Supervisor | 2008 |
| Peiju Qiu | | Research Supervisor | 2008-2010 |
| Celine Jamin | | Research Supervisor | 2008 |
| Shanshan Guo | | Research Supervisor | 2009-2011 |
| Narumon | | Research Supervisor | 2009-2010 |
| Mongkontanawut | | | |
| Zhimei Zhong | | Research Supervisor | 2011-present |
| Masood Butt | | Research Collaborator | 2011-present |

Thesis Supervision as Major Advisor – Completed

- **Kashif I. Ahmed**, “Encapsulation of Curcumin in O/W nanoemulsion and its bioaccessibility after in vitro digestion”, Master of Food Science, Aug. 2010.
- **Peiju Qiu**, “Chemopreventive effects of major hydroxylated polymethoxyflavones isolated from orange peel”, Ph.D. Joint program with Chinese Scholarship Council, Sep. 2010
- **Shanshan Guo**, “Anti-inflammatory effects of polymethoxyflavones”, Ph.D. Joint program with Chinese Scholarship Council, Sep. 2011
- **Pearline Ngauv**, “Inhibitory effects of polymethoxyflavones and atorvastatin in combination on murine lung cancer cells derived from NNK-induced lung tumors in mice”, M.S (Microbiology), Aug. 2011.

Thesis Supervision as Major Advisor – in progress

- **Noppawat Charoensinphon**, “Inhibition of lung carcinogenesis by polymethoxyflavones from orange”, Ph.D. Candidate, 2008-present.
- **Wasamon Nutakul**, “anti-tumor angiogenesis by dietary components”, Ph.D. Candidate, 2008-present.
- **Mingyue Song**, “Synergistic inhibition of colon cancer by diet-based combinational strategies”, Ph.D. student, 2010-present.
- **Christina DiMarco-Crook**, “Combination of dietary components for cancer chemoprevention”,

Ph.D. student (USDA National Needs scholarship fellow), 2010-present.

- **Hana Sobers**, “Bioavailability of bioactive dietary phenolic compounds in a Caco2 cell culture model”, Master student, 2008-present.
- **Longfang Li**, “Chemoprevention of breast cancer using dietary bioactive compounds”, Master student, 2010-present.
- **Fei Xu**, “Targeting cancer stem cells by polymethoxyflavones”, Ph.D. student, 2011-present.
- **Minqi Wang**, “Pharmacokinetic and biotransformation of polymethoxyflavones in rodents”, Master student, 2011-present.
- **Changchu Ma**, “Biotransformation of polymethoxyflavones by human gut microflora”, Master student, 2011-present.
- **Jingjing Chen**, “Nanoemulsions as delivery systems to enhance bioavailability of lipophilic nutraceuticals”, Ph.D. student, 2011-present.

PROFESSIONAL ACTIVITIES AND OUTREACH

Professional Affiliations:

- American Association for Cancer Research (AACR)
- Institute of Food Technologists (IFT)
- American Chemical Society (ACS)
- American Society for Nutrition (ASN)
- Chinese American Food Society (CAFS)

Activities within Professional Organizations

- Chair, Institute of Food Technologist (IFT) Food Chemistry Division Graduate Poster Competition, IFT Annual Meeting, June, 2011.
- Member of the New Professionals Task Force (IFT) (2009-present)
- Chair, American Society for Nutrition (ASN) symposium on diet and cancer, Experimental Biology Annual Meeting, Washington DC, April 2011.
- Chair, American Chemical Society (ACS) symposium for the division of Agricultural and Food Chemistry, 240th ACS National Meeting & Exposition, Aug. 2010
- Chair, Symposium in the International Society of Nutraceuticals and Functional Foods Annual Meeting 2010
- Director, Chinese American Food Society (2010-present)
- Review committee, Food Chemistry Division, IFT 2011 Annual Meeting.

Peer Review

Grant Reviews

- Reviewer, the North Carolina Biotechnology Centre, Biotechnology Research Grant Program, March 2010.
- Ad-hoc reviewer, Challenge Grant Proposals, National Institutes of Health (NIH), June 2009.
- Ad-hoc reviewer, Georgian National Science Foundation, May 2009.

- Ad-hoc reviewer, Georgian National Science Foundation, Fed. 2010

Journal Article Reviews

- Carcinogenesis
- International Journal of Cancer
- Oncology Research
- Journal of the Science of Food and Agriculture
- Critical Reviews in Food Science and Nutrition
- Journal of Agriculture and Food chemistry
- Cancer Chemotherapy and Pharmacology
- Natural Product Communications
- Evidence based Complementary and Alternative Medicine
- Pharmaceutical Biology
- Cell biology & Function
- Molecular Nutrition and Food Research
- Expert Opinion On Therapeutic Targets
- the Journal of Nutrition
- Food and Chemical Toxicology
- Journal of Functional Food
- Acta Veterinaria Brno
- Current Drug Targets
- Cell Proliferation
- Nutrition and Dietary Supplements
- Journal of Pharmacy and Pharmacology
- Food Chemistry

University Committees and Others

Department of Food Science

- Food Chemistry, Comprehensive Exam Committee (2008-current, chaired in 2010)
- Departmental Honors Program Director for Commonwealth College (2008-current)
- Search Committee: Food Processing Position at Food Science of UMass (2009)
- Search Committee: Food Chemistry Position at Food Science of UMass (2010)
- Departmental Website Web Master (2008-current)
- Chair, One-year professional Master Degree Program Development Committee (2009-current)
- Personnel Committee (2010)
- Chair, One-year Master Program Committee (2010)
- Chair, Comprehensive exam committee (2010)

College of Natural Sciences

- Department representative for CNS undergraduate recruitment event (2008)
- Department representative for the CNS Fall Open House (2008, 2009, 2010)
- Member of The Community, Diversity and Social Justice (CDSJ) committee member (2008, 2009-Current)

University of Massachusetts

- Adjunct faculty Member of Molecular and Cellular Biology Graduate Program (2008-current)
- Member of Center of Excellence in Apoptosis Research, Pioneer Valley Life Sciences Institute (2008-current)
- Adjunct faculty of Microbiology (2009-current)
- iCONs (Integrated Concentration in Science) program committee (2010)

Commonwealth Colleges of Massachusetts

- Honors Program Director for Commonwealth College (2008-current)
- Honor's Thesis advisor (2010)

Public and Industrial Outreach/Consultation

- National Center of Food Safety and Technology
- Kraft Foods, USA
- Pepsi co, USA
- Monsanto, USA
- The Coca Cola Company, USA
- Ocean Spray International, Inc., USA
- ConAgra Foods, USA
- General Mills, USA
- Well Gen Inc., NJ
- Blackmar Inc.
- Clinical Nutrition & Food Science Publishing
- Dept. of Chemical Biology, Rutgers University
- Dept. Food Science, University of Wisconsin-Madison
- College of Food Science and Technology, Ocean University of China
- National Institute of Food Science & Technology, University of Agriculture, Faisalabad, Pakistan.
- Department of Food and Horticultural Sciences, BZ University, Multan, Pakistan
- Quinsigmond Community College, Worcester, MA
- Dept. of Chemistry, Western Connecticut State University
- Snacks & Beverage Technology Div., The Procter & Gamble Company
- College of Food Science and Engineering, Inner Mongolia Agricultural University
- College of Food Science, South China Agricultural University
- College of Medicine and Pharmaceuticals, Ocean University of China
- University Readers, Inc. USA