

KEE-HONG KIM, Ph.D.

EDUCATION

Ph.D., Department of Food Science, 1999, Rutgers University, New Brunswick, NJ
M.S., Department of Food Science & Biotechnology, 1993, Seoul National University, Korea
B.S., Department of Food Science & Biotechnology, 1991, Seoul National University, Korea

PROFESSIONAL EXPERIENCE

Previous Position

2007 – 2013 Assistant Professor, Department of Food Science, Purdue University
2004 – 2007 Assistant Professor, Department of Medicine, Medical College of Wisconsin
1999 – 2004 Postdoctoral Fellow, Dept. of Nutritional Sciences & Toxicology, University of California-Berkeley
1994 – 1999 Research Assistant, Department of Food Science, Rutgers University
1993 – 1994 Scientist, LG Cosmetics Research Institute, Korea
1991 – 1993 Research Assistant, Department of Food Science, Seoul National University

Present Position

2018 – Present Faculty Member, Purdue Institute for Drug Discovery, Purdue University
2016 – Present Faculty Member, Purdue University Center for Cancer Research
2016 – Present Faculty Member, Institute for Inflammation, Immunology and Infectious Diseases, Purdue U
2013 – Present Associate Professor, Department of Food Science, Purdue University
2013 – Present Courtesy Associate Professor, Department of Nutrition Science, Purdue University
2007 – Present Faculty Member, Purdue University Interdisciplinary Life Science Program

PROFESSIONAL AWARDS AND HONORS

Outstanding Undergraduate Counselor Award, Department of Food Science, Purdue U. (2018)
Purdue University Faculty Scholar and Showalter Scholar (2017)
American Society for Nutrition (ASN), McCormick Science Institute Research Award (2016)
- *This award is presented to an investigator conducting clinical, translational, in vitro, and/or ex vivo research, whose scientific contributions have advanced the understanding of the potential health benefits of culinary herbs and spices.*
ASN-Korean Nutrition Society (KNS) award (2015)
- *This award is presented to an investigator who promotes excellence in nutrition research conducted by a North American scientist who is an ASN member and who is engaged with KNS, Korea or related collaborators or studies.*
Ralph W. and Grace M. Showalter Trust Award (2011)
Ralph W. and Grace M. Showalter Trust Award (2009)
Best Graduate Scholarship, Theobald Smith Society-The American Society for Microbiology (ASM) (1998)
2nd Place at Graduate Student Poster Competition at Theobald Smith Society-ASM (1998)
1st Place at Graduate Student Poster Competition- New York IFT (1997)
Best Graduate Student Poster Winning Award, Theobald Smith Society-ASM (1997)
3rd Place at the Annual Graduate Research Paper Competition at (1997)

MEMBERSHIPS

American Society for Nutrition (ASN)	(2009-Present)
American Society of Biochemistry and Molecular Biology (ASBMB)	(2013-Present)
Institute for Food Technologists (IFT)	(2008-2013)
The Korean Society of Food Science and Technology	(2008-Present)
Korean-American Scientists and Engineers Association	(2010-Present)

PUBLICATIONS

Journal Articles

1. Bai, J., Farias-Pereira, R., Jang, M., Zhang, Y., Xu, H., Park, Y., **Kim, K.-H.** 2020, MBOA-1 blockage enhances lipolysis and survival of *Caenorhabditis elegans* during fasting through modulation of insulin/IGF-like signaling and AAK-2/ATGL-1 dependent pathways (*under revision*)
2. Komanetsky, S., Kim, S.Q., **Kim, K.-H.** 2020, Proteomic analysis of 3T3-L1 adipocytes treated with methylglyoxal reveals expression pattern consistent with aerobic glycolysis (*under revision*)
3. Jang, M., **Kim, K.-H.**, Kim, G.-H., 2020, Antioxidant capacity of Thistle (*Cirsium japonicum*) in various drying methods and their protection effect on neuronal PC12 cells and *Caenorhabditis elegans*, Antioxidants (*in press*)
4. Yue, Y., Shen, P., Chang, A., Qi, W., **Kim, K.-H.**, Kim, D., Park, Y. 2019, Trans-Trimethoxy resveratrol decreased fat accumulation dependent on fat-6 and fat-7 in *Caenorhabditis elegans*, ***Food & Function***, 10:4966-4974
5. Maldonado, L., Chough, S., Bonilla, J., **Kim, K.-H.**, Kokini, J. 2019, Mechanism of fabrication and nano-mechanical properties of alpha-lactalbumin/chitosan and BSA/kappa-carrageenan nanotubes through layer-by-layer assembly for curcumin encapsulation and determination of in vitro cytotoxicity, 93:293-307, ***Food Hydrocolloids***, 93:293-307
6. Kim, C.Y., **Kim, K.-H.**, Park, Y. 2018, Selenate prevents adipogenesis through induction of selenoprotein S and attenuation of ER stress. ***Molecules***, 23:2882
7. Farias-Pereira, R., Oshiro, J., **Kim, K.-H.**, Park, Y. 2018, Green coffee bean extract and 5-O-caffeoylquinic acid regulate fat metabolism in *Caenorhabditis elegans*. ***Journal of Functional Foods***, 48:586-593
8. Zhu, Y., Chen, C.Y., Li, J., Cheng, J.X., **Kim, K.-H.** 2018, *In vitro* exploration of ACAT contribution to lipid droplet formation during adipogenesis, ***J. Lipid Research*** 59:820-829
9. Larrick, B., Donkin, S., **Kim, K.-H.**, Teegarden, D. 2018, 1,25-dihydroxyvitamin D regulates lipid metabolism and glucose utilization in differentiated 3T3-L1 adipocytes, ***Nutrition Research*** 58:72-83
10. Shen, P., Kershaw, J.C., Yue, Y., Wang, O., **Kim, K.-H.**, Park, Y. 2018, Effect of conjugated linoleic acid on fat accumulation, activity, and proteomic analysis in *Caenorhabditis elegans*. ***Food Chemistry*** 249:193-201
11. Yang, H., Seo, S.G., Shin, S.H., Min, S., Kang, M.J., Yoo, R., Kwon, J.Y., Yue, S., **Kim, K.-H.**, Cheng, J.X., Kim, J.R., Park, J.S., Kim, J.R., Park, J.S., Kim, J.H., Park, J.H.Y, Lee, H., Lee, K.W. 2017, 3,3'-diindolylmethane suppresses high-fat diet-induced obesity through inhibiting adipogenesis of pre-adipocytes by targeting USP2 activity, ***Molecular Nutrition and Food Research*** 61:10-21

12. Shen, P., Yue, Y., **Kim, K.-H.**, Park, Y., 2017, Piceatannol reduces fat accumulation in *Caenorhabditis elegans*. *Journal of Medicinal Food*, 9:887-894
13. Kershaw, J., **Kim, K.-H.** 2017, The therapeutic potential of piceatannol, a natural stilbene, in metabolic diseases – a review. *Journal of Medicinal Food*, 5:427-438
14. Shen, P, Yue, Y., Sun, Q., Kasireddy, N., **Kim, K.-H.**, Park, Y. 2017, Piceatannol extends the lifespan of *Caenorhabditis elegans* via a daf-16-dependent mechanism. *BioFactors*, 43:379-387
15. Kim, C.Y., Zhu, Y., Buhman, K.K., **Kim, K.-H.** 2015, Dietary selenate attenuates adiposity and improves insulin sensitivity in high-fat diet-induced obese mice. *Journal of Functional Foods*, 17:33-42
16. Malaypally, S.P., **Kim, K.-H.**, Ferruzzi, M., San Martin, F., Goforth, R., Liceaga, 2015, A. Invasive silver carp (*Hypophthalmichthys molitrix*) protein hydrolysates -A potential source of natural antioxidants. *Journal of Functional Foods*, 18:1158-1166
17. Wang, Y., Lee, K., Moon, Y.S., Ahmadian, M., **Kim, K.-H.**, Roder, K., Kang, C., Sul, H.S. 2015, Overexpression of Pref-1 in pancreatic islet beta-cells in mice causes hyperinsulinemia with increased islet mass and insulin secretion. *Biochemical and Biophysical Research Communications*, 461:630-635
18. Shin, S.H., Seo, S.G., Min, S., Song N., Lee, D.E., Kwon, J.Y., Yue, S., **Kim, K.-H.**, Cheng, J.-X., Lee, H.J., Lee, K.W. 2014, Caffeic acid phenethyl ester, a major component of propolis, inhibits mitotic clonal expansion in vitro, and suppresses high fat diet-induced obesity in vivo. *Journal of Agricultural and Food Chemistry*, 62:4306-12
19. Park, J.G., Lee, D.H., Moon, Y.S., **Kim, K.-H.** 2014. Reversine increases the plasticity of lineage-committed preadipocytes to osteogenesis by inhibiting adipogenesis through induction of TGF- β pathway in vitro. *Biochemical and Biophysical Research Communications* 446:30-36
20. Cheng, M.W., Chegeni, M., Zhang, G., **Kim, K.-H.**, Benmoussa, M., Quezada-Calvillo, R., Nichols, B.L., Hamaker, B.R. 2014. Different sucrose-isomaltase response of Caco-2 cells to glucose and maltose suggests dietary maltose sensing. *Journal of Clinical Biochemistry and Nutrition* 54:55-60
21. Kim, C.Y., **Kim, K.-H.** 2014. Curcumin prevents leptin-induced tight junction dysfunction in intestinal Caco-2 BBe cells. *Journal of Nutritional Biochemistry* 25:26-35
22. Kim, C.Y., **Kim, K.-H.** 2013. Dexamethasone-degraded SEPS1 in the early phase of differentiation is required for endoplasmic reticulum (ER) stress- and ubiquitin proteasome system (UPS)-dependent adipogenesis. *Journal of Lipid Research*, 54:2069-82
23. Seo, S.G., Shin, S.H., Min, S., Lee, D.E., Kwon, J.Y., Yang, H., Yue, S., Heo, Y.S., **Kim, K.-H.**, Cheng, J.-X., Lee, K, Lee, H.J. 2013. 6,7,4'-Trihydroxyisoflavone, a metabolite of daidzein, suppresses adipogenesis of 3T3-L1 preadipocytes via the direct inhibition of PI3K activity. *Molecular Nutrition and Food Research*, 57:1446-55
24. Chen, C.Y., Abell, A., Moon, Y.S., **Kim, K.-H.** 2012. An advanced glycation end product (AGE)-receptor for AGEs (RAGE) axis restores adipogenic potential of senescent preadipocytes through modulation of p53 function. *Journal of Biological Chemistry*, 287:44498-44507
25. Kwon, J.Y., Seo, S.G., Heo, Y.S., Yue, S., Cheng, J.X., Lee, K.W., **Kim, K.-H.** 2012. Piceatannol, a natural polyphenolic stilbene, inhibits adipogenesis via modulation of mitotic clonal expansion and insulin receptor-dependent signaling in the early phase of differentiation. *Journal of Biological Chemistry*, 287: 11566-11578

26. Kim, C.Y., Kim, G.N., Wiacek, J.L., Chen, C.Y., **Kim, K.-H.** 2012. Selenate, an inorganic form of selenium, inhibits adipogenesis through induction of transforming growth factor- β 1 (TGF- β 1) signaling. *Biochemical and Biophysical Research Communications*, 426:551-557
27. Kwon, J.Y., Seo, S.G., Yue, S., Cheng, J.X., Lee, K.W., **Kim, K.-H.** 2012. An inhibitory effect of resveratrol in the mitotic clonal expansion and insulin signaling pathway in the early phase of adipogenesis. *Nutrition Research*, 32:607-616
28. **Kim, K.-H.**, Park, Y.H. 2011. Food components with anti-obesity effect, *Annual Review of Food Science and Technology* 2:237-57
29. Kim, C.Y., Bordenave, N, Ferruzzi, M.G., Safavy, A., **Kim, K.-H.** 2011, Modification of curcumin with polyethylene glycol enhances the delivery of curcumin in preadipocytes and its antadipogenic property, *J Agric Food Chem* 59:1012-1019
30. Kim, C.Y., Le, T.T., Chen, C., Cheng, J.-X., **Kim, K.-H.** 2010, Curcumin inhibits adipocyte differentiation through modulation of mitotic clonal expansion, *Journal of Nutritional Biochemistry* 22:910-920
31. **Kim, K.-H.** 2009. Perspective in Regulation of Adipogenesis by Bioactive Food Components. *Food Science and Industry*, 42(4): 51
32. Jaworski, K., Ahmadian, M., Duncan, R.E., Sarkadi-Nagy, E., Varady, K.A., Hellerstein, M.K., Lee, H.Y., Samuel, V.T., Shulman, G.I., **Kim, K.-H.**, de Val, S., Kang, C., Sul, H.S. 2009. AdPLA ablation increases lipolysis and prevents obesity induced by high-fat feeding or leptin deficiency, *Nature Medicine*, 15(2):159-68
33. **Kim, K.-H.***, Gao, Y., Walder, K., Collier, G.R., Skelton, J., Kissebah, A.H. 2007. SEPS1 protects RAW264.7 cells from pharmacological ER stress agent-induced apoptosis. *Biochem. Biophys. Res. Commun.*, 354:127-132 (* **corresponding author**)
34. Gao, Y., Hannan, N., Wanyoni, S., Konstantopolous, N., Pagnon, J., Feng, H.C., Jowett, J.B., **Kim, K.-H.**, Walder, K., Collier, G.R. 2006. Activation of the selenoprotein SEPS1 gene expression by pro-inflammatory cytokines in HepG2 cells. *Cytokine* 33:246-51
35. Sakajiri S, O'Kelly J, Yin D, Miller C.W., Hofmann W.K., Oshimi K., Shih L.Y., **Kim K.-H.**, Sul H.S., Jensen C.H., Teisner B., Kawamata N., Koeffler H.P. 2005. Dlk1 in normal and abnormal hematopoiesis. *Leukemia* 19:1404-10
36. Villena, J.A., Roy, S., Sarkadi-Nagy, E., **Kim, K.-H.**, Sul, H.S. 2004. Desnutrin, a new patatin-like adipocyte protein, is induced by fasting and glucocorticoids and increases triglyceride hydrolysis. *J Biol Chem.* 279:47066-75
37. **Kim, K.-H.**, Zhao, L., Moon, Y., Kang, C., Sul, H.S. 2004. Dominant inhibitory ADSF/Resistin enhances adipogenesis and improves insulin sensitivity. *Proc Natl Acad Sci U S A* 101:6780-85
38. Lee, K., Villena, J.A., Moon, Y.S., **Kim, K.-H.**, Lee, S., Kang, C., and Sul, H.S. 2003. Inhibition of adipogenesis and development of glucose intolerance by soluble preadipocyte factor-1 (Pref-1). *J Clinical Investigation* 111:453-61
39. **Kim, K.-H.**, Moon, Y.S., 2003. Molecular cloning of adipose tissue-specific genes by cDNA microarray. *Asian-Australian journal of Animal Sciences* 16:1837-41
40. Villena, J.A., **Kim, K.-H.**, Sul, H.S. 2002. Pref-1 and ADSF/Resistin: two secreted factors controlling adipose tissue development. *Hormone and Metabolic Research* 34:664-70
41. Moon, Y.S., Smas, C.M., Lee, K., Villena, J.A., **Kim, K.-H.**, Yun, E.J., Sul, H.S. 2002. Mice lacking paternally expressed pref-1/dlk1 display growth retardation and accelerated adiposity. *Mol Cell Biol.* 22:5585-92

42. Roder, K, **Kim, K.-H.**, Sul, H.S. 2002. Induction of murine H-rev107 gene expression by growth arrest and histone acetylation: involvement of an Sp1/Sp3-binding GC-box. *Biochem Biophys Res Commun.* 294:63-70
43. **Kim, K.-H.**, Lee, K., Moon, Y.S., Sul, H.S. 2001. A cysteine-rich adipose tissue-specific secretory factor inhibits adipocyte differentiation. *J Biol Chem.* 276:11252-6
44. Latasa, M.J., Moon, Y.S., **Kim, K.-H.**, Sul, H.S. 2000. Nutritional regulation of the fatty acid synthase promoter in vivo: sterol regulatory element binding protein functions through an upstream region containing a sterol regulatory element. *Proc Natl Acad Sci U S A.* 97:10619-24
45. Moon, Y.S., Latasa, M.J., Kim, K.-H., Wang, D, Sul, H.S. 2000. Two 5'-regions are required for nutritional and insulin regulation of the fatty-acid synthase promoter in transgenic mice. *J. Biol Chem.* 275:10121-7
46. Sul, H.S., Latasa, M.J., Moon, Y., **Kim, K.-H.** 2000. Regulation of the fatty acid synthase promoter by insulin. *J Nutr.* 130(2S Suppl):315S-320S
47. Kim, K.-S., **Kim, K.-H.**, Storey, M.K., Voelker, D.R. and Carman, G.M. 1999 Isolation and characterization of the *Saccharomyces cerevisiae*. *EKI* gene encoding ethanolamine kinase. *J Biol Chem.* 274:14857-66
48. **Kim, K.-H.**, and Carman, G.M. 1999. Phosphorylation and regulation of choline kinase from *Saccharomyces cerevisiae*. *J Biol Chem.* 274:9531-8
49. **Kim, K.-H.**, Voelker, D.R., Flocco, M.T., and Carman, G.M. 1998. Expression, purification, and characterization of choline kinase, product of the *CKI* gene from *Saccharomyces cerevisiae*. *J. Biol. Chem.* 273: 6844-52
50. **Kim, K.-H.**, Kim, D.O., Park, K.-H., and Seo, J.-H. 1994. Thermal deactivation of cyclodextrin glycosyltransferase near optimum temperatures. *Kor. J. of Food & Biotechnology* .3: 261-264
51. **Kim, K.-H.**, Lim, H.G., and Seo, J.-H. 1993. Production of beta-cyclodextrin from starch by cyclodextrin glycosyltransferase from alkalophilic *Bacillus sp.* *E1. Kor. J. Food Sci. Technol* 25:608-10
52. Lim, H.G., **Kim, K.-H.**, and Seo, J.-H. 1992. Effect of sucrose on invertase expression in recombinant *S. cerevisiae* *Kor. J. Appl. Microbial. Biotechnol* 20:417-421

Book Chapter

1. **Kim, K.-H.**, Lee, K.W. 2016, Phytochemicals in prevention and treatment of obesity and related disorder. *Nutrition in the Prevention and Treatment of Diseases*. 4th edition. Coulston, A.M., Boushey, C., and Ferruzzi, M., Academic Press.
2. **Kim, K.-H.**, Kim, G.N., Lee, K.W. 2015, Phytochemicals in prevention and treatment of obesity and related disorder. *Nutrition in the Prevention and Treatment of Diseases*. 3rd edition. Coulston, A.M., Boushey, C., and Ferruzzi, M., Academic Press, 2015 ISBN: 9780123918840, 391-406
3. **Kim, K.-H.**, Griffin, M.G., Villena, J.A., and Sul, H.S. 2005, Regulation of fat synthesis and adipogenesis. *Genomics and Proteomics in Nutrition (Nutrition in Health and Disease)*, Marcel Dekker Inc., New York (ISBN: 0824754301) 77-106

ENTREPRENEURSHIP ACTIVITY

1. Co-founded “*EFIL Pharmaceuticals Incorporation*” in 2017 for providing therapeutic solutions to the life-threatening rare genetic disorders of obesity.

2. **Accepted as a Faculty Fellow to Faculty Entrepreneurial Learning Academy 2019-2020, Burton D. Morgan Center for Entrepreneurship:** a selected professional development program designed for strongly motivated faculty who have an interest in understanding the commercialization possibilities for their research, learning, or engagement activities

Patent Cooperation Treaty (PCT) international patent filing

Kim, K.-H., Zhu, Y., 2017. “Compositions and methods for regulating body weight and metabolic syndromes” filed on 11/16/2017 by Purdue Technology Center

Provisional Patent Applications

- **Kim, K.-H.,** Zhu, Y., 2016. “Methods of treating obesity and type 2 diabetes”
- **Kim, K.-H.,** Zhu, Y., 2015. “Methods of treating obesity”

Invention Disclosures

- **Kim, K.-H.** 2019, “Methods and compositions for enhancing lifespan and fat mobilization”
- **Kim, K.-H.,** Kwon, J.Y., 2012. “Anti-obesity action of piceatannol”
- **Kim, K.-H.** Wiacek, J., Kim, C.Y., Kim, G.N., 2012. “Selenate for the treatment of metabolic disorders”

RESEARCH GRANTS

Active in 2020: 1 grant

CURRENT LAB MEMBERS

Name	Start Date
Sora Kim	Aug. 2018
Miran Jang (Ph.D.)	Nov. 2017
Yuan Zhang	Nov. 2018
Jaehyun Ju (Ph.D.)	Oct. 2019
Wangjun Wu (Ph.D.)	Nov. 2019

TEACHING

FS453 Food Chemistry Lab
 FS591 Functional Foods
 FS552 Nutritional Sciences
 NUTR590 Obesity: Behavior, Physiology and Policy
 NUTR 695 Nutrition Seminar

SERVICE TO PROFESSION

Journal Editorial Board

- Editorial board member of *Journal of Integrative Medicine Research* (2016-2018)
- Editorial Board Member: *Journal of Biological Chemistry* (2014-present)
- Editorial Board Member: *Journal of Analytical Biochemistry* (2012-present)

- Review Editor: *Journal of Medicinal Food* (2009-2019)
- Managing Editor: *Food Science and Biotechnology* (2008-2012)

Ad Hoc Reviewer for Grants

- Ad hoc NIH Study Section member: Somatosensory and Chemosensory Systems (2016-present)
- Ad hoc NIH Study Section member: Discovery & Validation of Novel Safe and Effective Pain Treatment (2019)
- Invited grant reviewer, Università degli Studi di Camerino, Italy (2019)
- Poland Science Center (2015, 2017)
- USDA Hatch grant reviewer in Purdue University (2012-2014, 2016-2018)
- College of Agriculture Instructional Equipment Program grant (2018)
- USDA-NIFA Exploratory Grants (2014)
- Purdue University internal grant reviews (2011- 2013)
- Diabetes UK (2013)
- Collaborative Funding Grants Program, North Carolina Biotechnology Center, Research Triangle Park, NC (2013)
- SBIR proposal, South Carolina Experimental Program to Stimulate Competitive Research (SC EPSCoR) (2012)

SERVICE AND LEADERSHIP ROLE

Department:

- Food Science Scholarship Committee 2013-present
- Food Science Award Committee 2017-present
- Food Science Social Committee 2008, 2019
- Food Science Undergraduate Curriculum Committee (Chair in 2014-2016) 2012-2017
- Food Science Teaching Assistant Assignment 2014
- Vision and Statement task force in Food Science 2014
- Food Science Safety Committee 2011-2012, 2016-present
- Food Science Diversity Committee 2009-2010
- Faculty Search Committee in the Department of Food Science 2017
- Food Science Club Spring Symposium Faculty Advisor 2008

College:

- Honors College Committee 2019
- Library Committee 2009-2011
- Curriculum and Student Relation Committee, College of Agriculture 2014-2017
- Agenda and Policy Committee 2012-2014
- Organizer of the Monthly Food for Health Research Joint Lab Meeting 2008-present
- USDA HATCH grant reviewer
- Participant in the trip to Washington D.C. to meet officers in NIH, NSF, USDA 2014

Purdue University:

- Interdepartmental Nutrition Program (INP) graduate admission committee 2008-present
- INP Graduate Program Committee 2011-present
- INP Graduate Seminar Committee 2013, 2014, 2016

- IBRC award committee 2012-present
- Ingestive Behavior Research Center (IBRC) Fellowship Award Committee 2011-present
- Organizer of the Purdue Lipid Club meeting 2010-present
- Poster judge for Office of Interdisciplinary Graduate Poster competition 2014, 2017-2018
- Faculty Search Committee in the Department of Nutrition Science 2014
- Member of faculty mentoring committee for Dr. Ryan Grant (Nutrition Sci) 2014
- Judge for Interdepartment Nutrition Program (INP) graduate poster competition 2018

Service to Professional Societies and Leadership

- Faculty promotion and tenure reviewer: Department of Human Nutrition, Food and Animal Science, University of Hawaii at Manoa
- Program organizer committee for the 2nd Big Ten Lipid Alliance meeting 2018.
- Session Co-chair of Dietary Bioactive Components and Obesity and Metabolic Syndrome mini-symposium of the American Society of Nutrition (ASN) in the annual Experimental Biology meeting of 2016, San Diego, CA
- Conference program committee for 2015 International Conference on Food Factors (ICoFF), Seoul Korea
- Session chair in Food, Agriculture and Nutrition session, 2014 Annual Meeting for US-Korea Conference, San Francisco, CA
- Abstract reviewer for 2014- 2016 Experimental Biology Meeting, Boston, MA
- Secretary & Treasurer of American Society for Nutrition (ASN): Dietary Bioactives Research Interest Section (2010-2013)
- Session Chair of Energy & Macronutrient Metabolism (EMM) Research Interest Section (RIS) of the American Society of Nutrition (ASN) in the annual Experimental Biology meeting of 2012, San Diego, CA
- Session Co-Chair of Energy & Macronutrient Metabolism (EMM) Research Interest Section (RIS) of the American Society of Nutrition (ASN) in the annual Experimental Biology meeting of 2011, Washington D.C.
- Chair of Institute of Food Technology (IFT) Hoosier section (2009)
- Chair-Elect of Institute of Food Technology (IFT) Hoosier section (2008)
- Chair of Korean-American Food Technologist Association (2009-2011)