

**Curriculum Vitae**  
**Young-Cheul Kim, Ph.D.**

**PERSONAL INFORMATION**

Title: Associate Professor, Department of Nutrition  
Office: Department of Nutrition, School of Public Health and Health Sciences  
206-B Chenoweth Lab. University of Massachusetts, Amherst  
Email: [yckim@nutrition.umass.edu](mailto:yckim@nutrition.umass.edu)  
Phone: Office : 413-577-4553 Cell : 413-687-5207

**EDUCATION & TRAINING**

1995-2001 Postdoctoral training in Pharmacology, Biochemistry & Nutrition, Univ. of Wisconsin, Madison, WI.  
1991-1995 Ph.D. Nutritional Science, University of Tennessee, Knoxville, TN.  
1986-1988 M.S. (with honors), Food Science and Technology, Korea University, Korea.  
1980-1986 B.S. (with honors), Biology, Keimyung University, Korea.

**ACADEMIC & PROFESSIONAL POSITIONS**

Fall 2020 Interim Graduate Program Director (GPD)  
2011– present Associate Professor, Department of Nutrition, University of Massachusetts, Amherst MA.  
Fall 2019 Visiting Scholar, Dept. of Food Science & Technology, Kangwon National University, Korea  
Spring 2013 Visiting Scholar, Dept. of Food Science & Technology, Chung-Ang University, Korea  
Spring 2013 Visiting Scholar, Dept. of Food and Nutrition, Hannam University, Korea  
2005–2011 Assistant Professor, Department of Nutrition, University of Massachusetts, Amherst, MA  
2001-2005 Assistant Professor, Department of Foods and Nutrition, Purdue University, West Lafayette, IN.  
1998-2001 Research Scientist, Department of Biochemistry and Nutritional Science, University of Wisconsin-Madison, WI.  
1995-1998 Research Associate, Department of Pharmacology in Medical School, University of Wisconsin-Madison, WI.  
1991-1995 Graduate Research Assistant, Department of Nutritional Science, University Tennessee-Knoxville, TN.  
1988-1989 Research & Development Planning Division, Shany Co., Ltd, Korea  
1986-1988 Graduate Research Assistant, Department of Food Science and Technology, Korea University, S. Korea.

**AWARDS AND HONORS**

2018 Award Nominee for the 2017-2018 *Distinguished Teaching Award*, UMass campus-wide, nominated by students  
2018 Award Nominee for the 2017-2018 *College Outstanding Teaching* at UMass, Amherst, nominated by students  
2015 Award Nominee for the 2014-2015 *College Outstanding Teaching* at UMass, Amherst, nominated by students  
2014 Award Nominee for the 2013-2014 *College Outstanding Teaching* at UMass, Amherst, nominated by students  
2010 *A 2010-2011 Lilly Teaching Fellow for Teaching Excellence* at UMass, Amherst (One of eight faculty selected campus-wide)  
2009 The recipient of *Student Choice Award* - The Residential First Year Experience Academic Award for a significant impact on the lives of first-year students at UMass, Amherst, nominated by students  
2009 Mellon Foundation, Center for Teaching and Faculty Development, University of Massachusetts, MA: The Mellon Mutual Mentoring Initiative Grant. Role: Participant in core group to network with colleagues to promote collaboration.

## PROFESSIONAL AFFILIATIONS AND MEMBERSHIP

2010-present	Member of American Council for Medicinally Active Plants (ACMAP)
2010-present	Member, Boston Nutrition Obesity Research Center (BNORC)
2010-present	Member of Northeast Regional Association (NERA) of State Agricultural Experiment Station
2006-present	Member, Institute of Food Technologists (IFT)
2006-present	UMass Molecular and Cellular Biology Program
2007-present	Diabetes and Metabolism Working Group (UMass & Baystate Medical Center)
1991-present	American Society for Nutrition (ASN)
1991-present	Member of Korean-American Scientists and Engineers Association (KSEA)
2002-present	Member, Gamma Sigma Delta, The Honor Society of Agriculture.
2004-2005	Member, Kappa Omicron Nu (National and North Central Alumni Chapter).
2002-2005	Member, NIH Purdue-UAB, Botanical Center for Age-Related Diseases.
2000-2005	Member, The North American Association for the Study of Obesity.

## FUNDING SOURCES FOR RESEARCH SUPPORT

Federal (USDA); Industry, Institutes, Foundation & Internal fundings

## PUBLICATIONS

<sup>1</sup>Graduate Student; <sup>2</sup>Postdoctoral Fellow; <sup>3</sup>Research Visiting Scholar; <sup>4</sup>Exchange Student;

\*  
Corresponding author

### Manuscripts In Preparation:

<sup>1</sup>SY Yu, Z Liu, S Chung, <sup>\*</sup>Y-C Kim. The genetic ablation of TNF $\alpha$  increased retinoic acid bioavailability and peroxisome proliferator-activated receptor beta/delta expression in adipose tissue.

<sup>1</sup>J Oh, <sup>1</sup>SY Yu, <sup>\*</sup>Y-C Kim. Cranberry and blackberry extracts antagonize artificial sweetener-induced hyperglycemia.

<sup>1</sup>J Oh, <sup>1</sup>SY Yu, <sup>\*</sup>Y-C Kim. Berry extracts exert hypoglycemic effects by Inhibiting intestinal glucose absorption and transport in human Caco-2 epithelial cells.

### Manuscripts Under Review:

JS Yook, SS Thomas, AM Toney, M You, **Y-C Kim**, Z Liu, J Lee, and S Chung. Diet-induced nonanemic iron deficiency impairs adaptive thermogenesis via defective iron regulation of adipose tissue in C57BL/6 mice. *Journal of Nutrition*

<sup>1</sup>SY Yu, Z Liu, S Chung, <sup>\*</sup>Y-C Kim. The genetic ablation of TNF $\alpha$  increased retinoic acid bioavailability and peroxisome proliferator-activated receptor beta/delta expression in adipose tissue. *Metabolism*. Under review

<sup>1</sup>SY Yu, Z Liu, S Chung and <sup>\*</sup>Y-C Kim. Sulforaphane exerts anti-inflammatory effects on LPS-stimulated RAW 264.7 cells and mouse bone marrow derived macrophages by targeting p65 phosphorylation and HDAC3 expression. *Nutrition Research*. Under review

### Peer-Reviewed Research Articles Published:

<sup>1</sup>SY Yu, <sup>2</sup>Y Choi, JS Noh, YI Kwon, OH Lee, <sup>\*</sup>Kim Y-C. (2021) Mechanism of formononetin-induced adipocyte fatty acid oxidation and preadipocyte differentiation. *J of Food and Nutrition Research*. In Press

<sup>1</sup>SY Yu, <sup>1</sup>J Oh, J.S. Kim, YI Kwon, E. Apostolidis and <sup>\*</sup>Y-C Kim (2021). Proanthocyanidin-rich cranberry extract suppresses inhibits LPS-induced inflammation by suppressing p65 phosphorylation and histone acetylation in Raw 264.7 cells and mouse bone marrow-derived macrophages. *J of Food and Nutrition Research*. Vol.9, No.2, 79-86, [Doi:10.12691/jfmr-9-2-4](https://doi.org/10.12691/jfmr-9-2-4)

JS Yook, M You, Y Kim, Mi Zhou, Z Liu, **Y-C Kim**, J Lee, S Chung (2021). The thermogenic characteristics of adipocytes are dependent on the regulation of iron homeostasis. *Journal of Biological Chemistry*. February 22:100452 doi:10.1016/j.jbc.2021.100452

<sup>3</sup>HD Hong, OH Lee, SI Choi, **Y-C Kim** (2021). A synergistic anti-diabetic effect of ginsenosides Rb1 and Rg3 through adipogenic and insulin signaling pathways in 3T3-L1 cells. *Applied Sciences*. 2021, 11(4), 1725; <https://doi.org/10.3390/app11041725>

J Li, <sup>1</sup>SY Yu, S Kim, **Y-C Kim**, S Chung, Z Liu (2021) TNF $\alpha$  deficiency improves adipocyte differentiation in adipose tissue via the inhibition of Wnt-signaling in a high fat diet-induced obesity. *J. of Human Nutrition*. 4(1): 112-119. DOI: [10.36959/487/290](https://doi.org/10.36959/487/290)

<sup>4</sup>JY Lee, TY Kim, H Kang, J Oh, SC Kim, SC Kim, E. Apostolidis, **Y-C Kim**, YI Kwon (2021) Effect of Chitosan Oligosaccharide (GO2KA1) Supplementation on Weight Management via Inhibition of Adipogenesis in *ex-vivo* and *in-vivo* Animal Models. *Molecules*. 2021, 26, 331. [doi.org/10.3390/molecules26020331](https://doi.org/10.3390/molecules26020331)

<sup>1</sup>SY Yu, MB Kim, YK Park, M Bae, H Kang, S Hu, T Pham, R Carpenter, OH Lee, JY Lee, **Y-C Kim** (2021). Anthocyanin-rich aronia berry extract mitigates high-fat and high-sucrose diet-induced adipose tissue inflammation by inhibiting NF- $\kappa$ B activation. *J of Medicinal Food*. DOI:[10.1089/jmf.2021.0127](https://doi.org/10.1089/jmf.2021.0127)

<sup>4</sup>Choi SI, Lee JS, Sim WS, **Kim Y-C**, Lee OH (2020) Potentilla Rugulosa Nakai extract attenuates bisphenol A-, S- and F-induced ROS production and differentiation of 3T3-L1 preadipocytes in the absence of dexamethasone. *Antioxidants*. 2020. 28:9(2).113. doi: [10.3390/antiox9020113](https://doi.org/10.3390/antiox9020113)

Kim HH, <sup>4</sup>Kang YR, <sup>4</sup>Choi HY, Lee JY, Oh JB, Kim JS, **Kim Y-C**, Lee KW, Kwon YI (2019) Postprandial anti-hyperglycemic effect of vitamin B6 (pyridoxine) administration in healthy individuals. *Food Sci Biotechnology*. (2019) 28(3):907–911.

<sup>4</sup>SI Choi; JS Lee; S Lee; BY Cho; SH Choi; X Han; WS Sim; **Y-C Kim**; BY Lee; IJ Kang; OH Lee (2019) Protective Effects and Mechanisms of *Pourthiaea villosa* (Thunb.) Decne. Extract on Hydrogen Peroxide-Induced Skin Aging in Human Dermal Fibroblasts. *J Med Food*. 2019 Aug;22(8):841-850.

ML Cho, DB Kim, GH Shin, JM Kim, Y Seo, SY Choe, JH Cho, **Y-C Kim**, JH Lee, <sup>3</sup>OH Lee (2018) Protective Effects of Citrus Based Mixture Drinks (CBMDs) on Oxidative Stress and Restraint Stress. *Food Sci Biotechnol*. May 23, 2018: 27(6):1801-1809.

Jung TD, <sup>4</sup>Choi SI, Cho BY, Sim WS, Xiongao H, Lee SJ, Park SJ, Kim DB, **Kim, Y-C**, Lee JH, <sup>3</sup>Lee OH (2018) Changes in the Anti-Allergic Activities of Sesame by Bioconversion. *Nutrients*. 14:10(2), 210: doi:[10.3390/nu10020210](https://doi.org/10.3390/nu10020210)

<sup>1</sup>Yu SY, Kwon YI, Lee C, Apostolidis E, **Kim, Y-C** (2017) Antidiabetic effect of Chitosan oligosaccharide (GO2KA1) is mediated via inhibition of intestinal alpha-glucosidase and glucose transporters and PPAR $\gamma$  expression. *BioFactors*. 43(1):90-99.

<sup>4</sup>Kang YR, Choi HY, Lee JY, Jang SI, Oh J, Kim JS, Lee JW, Jo SH, Ha KS, Lee MS, **Kim, Y-C**, Apostolidis E, YI Kwon (2016) Effect of supplementation of low molecular weight chitosan oligosaccharide, GO2KA1, on postprandial blood glucose levels in healthy individuals following bread consumption. *Food Sci and Biotechnology* 25(3):1-4.

<sup>1</sup>Oh J, Jo SH, Kim JS, Ha KS, Lee JY, Choi HY, Yu SY, Kwon, YI, **Kim, Y-C** (2015) Selected tea and tea pomace extracts inhibit intestinal  $\alpha$ -glucosidase activity in vitro and postprandial hyperglycemia in vivo. *Int. J. Mol. Sci*. 21;16(4):8811-25

Lee KH, <sup>3</sup>Ha KS, <sup>2</sup>Jo SH, Lee CM, **Kim, Y-C**, Chung KH, and Kwon YI (2014) Effect of Long-Term Dietary Arginyl-Fructose (AF) on Hyperglycemia and HbA1c in Diabetic *db/db* Mice. *Int. J. Mol. Sci*. 15(5) 8352-8359.

<sup>2</sup>Jo SH, Ha, KS, Lee JW, **Kim, Y-C**, Apostolidis E, Kwon YI (2014) The reduction of low molecular weight chitosan oligosaccharide (GO2KA1) on postprandial blood glucose levels in healthy individuals. *Food Sci. Biotechnol.* 23(3):971-973

Kim JG, <sup>2</sup>Jo SH, Kim SC, **Kim, Y-C**, Apostolidis E, Kwon YI (2014) Effect of long-term supplementation of low molecular weight chitosan oligosaccharide (GO2KA1) on fasting blood glucose and HbA1c in db/db mice model and elucidation of mechanisms of action. *BMC Complement Altern Med.* July 29; 14(1):272.

<sup>2</sup>Jo SH, Ha KS, Moon KS, Kim SC, Kim JG, Oh CG, **Kim, Y-C**, Apostolidis E, Kwon YI (2013). Molecular weight-dependent Glucose-lowering effect of Chitosan Oligosaccharide (GO2KA1) on postprandial blood glucose in SD rat model. *Int. J. Molecular Sciences.* 14, 14214-14224.

<sup>1</sup>Cho K, Kim YO, Andrade JE, Burgess JR, \***Kim, Y-C**. (2011) Dietary naringenin increases hepatic peroxisome proliferators-activated receptor  $\alpha$  (PPAR $\alpha$ ) protein expression and decreases plasma triglyceride and adiposity in rats. *European Journal of Nutrition.* 50(2):81-88.

<sup>2</sup>Lee OH, Kwon YI, Apostolidis M, Shetty K, and \***Kim, Y-C**. (2011) *Rhodiola*-induced inhibition of adipogenesis involves antioxidant enzyme response associated with pentose phosphate pathway. *Phytotherapy Research.* 25(1):106-115.

<sup>1</sup>Cho KW, Lee OH, Banz WJ, Moustaid-Moussa N, Shay N. and \***Kim Y-C**. (2010) Daidzein and the daidzein metabolite, equol, enhance adipocyte differentiation and PPAR $\gamma$  transcriptional activity. *Journal of Nutritional Biochemistry.* Vol.21, 841-847.

<sup>2</sup>Lee OH, Seo DH, Park CS, \***Kim Y-C**. (2010) Puerarin enhances adipocyte differentiation, adiponectin expression and antioxidant response in 3T3-L1 cells. *Biofactors.* 36(6):459-67.

Park JY, Jung J, <sup>4</sup>Seo, D, Ha S, Yoon J, **Kim Y-C**, Shim J, Park CS (2010) Microbial production of palatinose through extracellular expression of a sucrose isomerase from *Enterobacter* sp. FMB-1 in *Lactococcus lactis* MG1363. *Bioresource Technology.* Vol. 101, 8823-8833.

<sup>2</sup>Lee OH, Lee BY, Lee J, Lee HB, Son JY, Park CS, Shetty K, and \***Kim Y-C**. (2009) Assessment of Phenolics-Enriched Extract and Fractions of Olive Leaves and Their Antioxidant Activities. *Bioresources Technology*, Vol.100(23):6107--13.

<sup>2</sup>Lee OH, Kwon YI, Lee BY, Hong HD, Park CS, and \***Kim Y-C**. (2009) Production of Reactive Oxygen Species and Changes in Antioxidant Enzyme Activities during Differentiation of 3T3-L1 Adipocyte. *J. Kor. Soc. Appl. Biol. Chem.* Vol. 52(1), 70-75.

<sup>1</sup>Kwon Y-I., Apostolidis E, **Kim Y-C** and Shetty K. (2009) Over-expression of proline-linked antioxidant pathway and modulation of phenolic metabolites in long life span clonal line of *origanum vulgare* in response to UV-radiation. *Journal of Food Biochemistry.* DOI: 10.1111/j.1745-4514.2009.00243.x.

<sup>1</sup>Shim SM, Ferruzzi MG, **Kim Y-C**, Janle ER, and Santerre CR (2009) Impact of foods on the bioavailability of methylmercury in a Caco-2 human intestinal cell model. *Food Chemistry.* Vol. 112. 46-50.

Cha J, Jung JH, Park SE, Cho MH, <sup>4</sup>Seo DH, Ha SJ, Yoon JW, <sup>2</sup>Lee OH, **Kim Y-C**, <sup>3</sup>Park, CS (2009) Molecular cloning and functional characterization of a sucrose isomerase (isomaltulose synthase) gene from *Enterobacter* sp. FMB-1. *Journal of Applied Microbiology*, March, 1335-2672.

<sup>2</sup>Lee OH, Lee BY, Kim C, Shetty K, and \***Kim Y-C** (2008) Radical Scavenging-linked Antioxidant Activity of Ethanolic Extracts of Diverse Types of Extra Virgin Olive Oils. *Journal of Food Science.* Vol.73(7). C519-25.

Davis J, Higginbotham A, O'connor T, Moustaid-Moussa N, Tebbe A, **Kim Y-C** et al. (2007) Soy Protein and Isoflavones Influence Adiposity and Development of Metabolic Syndrome in the Obese Male ZDF Rat. *Ann Nutr Metab.* 51: 42-52.

<sup>1</sup>Kwon Y-I., Apostolidis E., **Kim Y-C.**, and Shetty K. (2007) Health benefits of traditional corn, beans and pumpkin; In vitro studies for hyperglycemia and hypertension management. *Journal of Medicinal Food.* 10(2): 266-275.

<sup>4</sup>Seo DH, <sup>4</sup>Jung JH, Kim HY, Kim YR, Ha SJ, **Kim Y-C** and Park CS (2007) Identification of lactic acid bacteria involved in traditional Korean rice wine fermentation. *Food Science and Biotechnology.* Vol. 16. No. 6, pp. 994 ~ 998.

<sup>2</sup>Lee OH, **Kim Y-C**, Kim KJ, and Lee BY: (2007) Effect of bioactive compounds and fatty acid composition on the oxidative stability of extra virgin olive oil varieties. *Food Science and Biotechnology.* Vol.16, No 3: 414-420.

Kim KJ, <sup>2</sup>Lee OH, Lee HC, **Kim Y-C**, and Lee BY: (2007) Effect of Fucoidan on Expression of Diabetes Mellitus Related Genes in Mouse Adipocytes. *Food Science and Biotechnology.* Vol.16 No. 2, p49-54.

Zhao D, Duan H, **Kim Y-C**, Jefcoate CR. (2005) Rodent StAR mRNA is substantially regulated by control of mRNA stability through sites in the 3'-untranslated region and through coupling to ongoing transcription. *Journal of Steroid Biochemistry & Molecular Biology.* 96:155-173.

Gomez FE, Miyazaki M, **Kim Y-C**, Marwah P, Lardy HA, Ntambi JM, Fox B.: (2002) Molecular differences caused by differentiation of 3T3-L1 preadipocytes in the presence of either dehydroepiandrosterone (DHEA) or 7-oxo-DHEA. *Biochemistry.* 41: 5473-5482.

Miyazaki M, **Kim Y-C**, and Ntambi J.M.: (2001) A lipogenic diet in mice with a disruption of the stearoyl-CoA desaturase 1 gene reveals a stringent requirement of endogenous monounsaturated fatty acids for triglyceride synthesis. *Journal of Lipid Research.* 42: 1018-1024.

Ntambi J.M. and **Kim Y-C.** Regulation of the stearoyl-CoA desaturase genes by dietary fat: Role of polyunsaturated fatty acids. *"Nutrient-Gene Interactions in Health and Disease"*. CRC Series in Modern Nutrition. pp49-61, 2001.

Ntambi J.M. and **Kim Y-C:** (2000) Adipocyte differentiation and gene expression. *Journal of Nutrition.* 130: 3122S-3126S.

Ntambi J.M., **Kim Y-C**, Gomez E. and Fox B.G. Regulation of Stearoyl-CoA Desaturase 1 Gene in Preadipocyte Differentiation, Diabetes and Obesity. Book Chapter of *"Adipocyte Biology and Hormone Signaling"* IOS Press, pp69-78, 2000.

Makoto M, **Kim Y-C**, Keller M.P., Attie A.D., and Ntambi J.M.: (2000) The biosynthesis of hepatic cholesterol esters and triglycerides is impaired in mice with a disruption of the gene for stearoyl-CoA desaturase 1. *Journal of Biological Chemistry.* 275 (39): 30132-30138.

Choi Y, **Kim Y-C**, Han Y-B., Park Y., Pariza M.W., and Ntambi J.M.: (2000) The trans-10, cis-12 isomer of conjugated linoleic acid downregulates stearoyl-CoA desaturase gene expression in 3T3-L1 adipocytes. *Journal of Nutrition.* 130: 1920-1924.

**Kim Y-C**, Ntambi J.M., Gomez E., and Fox B.G.: (2000) Differential Regulation of the Stearoyl-CoA Desaturase Genes by Thiazolidinediones in 3T3-L1 Adipocytes. *Journal of Lipid Research* 41 (8): 1310-1316.

**Kim Y-C** and Ntambi J.M.: (1999) Regulation of Stearoyl-CoA Desaturase genes: Role in cellular metabolism and preadipocyte differentiation. *Biochem. Biophys. Res. Comm.* 266 (1): 1-4.

Ntambi JM, Choi Y, and **Kim Y-C**. Regulation of Stearoyl-CoA Desaturase by Conjugated Linoleic Acid in "Advances in Conjugated Linoleic Acid Research", AOCS Press, vol.1. Chapter 26: 340-347, 1999.

Ariyoshi N., **Kim Y-C**, Artemenko, I., Bhattacharyya K.K., and Jefcoate C.R.: (1998) Characterization of the rat StAR gene that encodes the predominant 3.5 kb mRNA: ACTH stimulation of adrenal steroids in vivo precedes elevation of StAR mRNA and protein. *Journal of Biological Chemistry*. 273 (13): 7610-7619.

**Kim Y-C**, Ariyoshi N., Artemenko I., Elliot M.E., Bhattacharyya K.K. and Jefcoate C.R.: (1997) Control of cholesterol access to cytochrome P450scc in rat adrenal cells mediated by regulation of the steroidogenic acute regulatory protein. *Steroids*. 62: 10-20.

**Kim Y-C** and Zemel M.B.: (1995) Insulin stimulation of intracellular free calcium ( $[Ca^{2+}]_i$ ) recovery and  $Ca^{2+}$ -ATPase gene expression in cultured vascular smooth muscle cells (VSMCs) : Role of Glucose-6-Phosphate. *Biochemical Journal*. 311: 555-559.

**Kim Y-C** and Zemel M.B.: (1993) Insulin increases vascular smooth muscle recovery from intracellular calcium loads. *Hypertension*. 22: 74-77.

### **Research Bulletins & Proceedings Published**

**Kim Y-C**: A Frost & Sullivan featured one of my research publications as reported in the Journal of Bioresource Technology with the title "*Industrial Bioprocessing Alert: Bioactive Compounds from Olive Leaf* (2 pages)" on September 11, 2009.

**Kim Y-C**: A Frost & Sullivan featured one of my research publications as reported in the Journal of Nutritional Biochemistry with the title "*Nutrition Research Alert: Consumption of soy foods and isoflavones linked with lower incidence of diabetes*" (2 pages)" on November, 2009.

**Kim Y-C**: Regulation of Fat Cell Development and Gene Expression. *Proceeding of 4<sup>th</sup> International Symposium* organized by Research Center for Processing and Application of Agricultural Products (APRC), Life Science Research Institute of Daegu University, Korea, pp1-8, 2003.

### **PUBLISHED ABSTRACTS OF RESEARCH PRESENTED AT NATIONAL AND INTERNATIONAL CONFERENCES (Since 2005)**

Yu SY, Liu, Z, Chung S, **Kim, Y-C**. Obesity-induced tumor necrosis factor alpha suppresses in vivo and in vitro retinoic acid synthesis and fatty acid oxidation in adipose tissue. Nutrition 2021 International Conference by American Society of Nutrition (ASN). June 7- June 10, 2021.

Ying T, Lin T-C, Chung S, **Kim, Y-C**, Liu, Z. Impact of high-fat diet in early-life on mammary metabolic and inflammatory status in later-life in mice. Nutrition 2021 International Conference by American Society of Nutrition (ASN). June 7- June 10, 2021.

Lin T-C, Ying T, **Kim, Y-C**, Chung S, Liu, Z. The influence of high-fat diet in early life on intestinal tumorigenesis in APC1638N mice. Nutrition 2021 International Conference by American Society of Nutrition (ASN). June 7- June 10, 2021.

Yu SY, Li, J, Liu, Z, **Kim, Y-C**. Genetic deletion of tumor necrosis factor alpha protects a high-fat diet-induced obesity, insulin resistance and hepatic steatosis through increased fatty acid metabolism in adipose tissue. *SPHHS Research Day at University of Massachusetts*. April 14, 2020.

Yu SY, Li, J, Liu, Z, **Kim, Y-C**. Tumor necrosis factor alpha knockout promotes adipose fatty acid oxidation and attenuates insulin resistance and hepatic steatosis in high fat diet-fed mice. Nutrition 2020 International Conference by American Society of Nutrition (ASN). Seattle, Washington. May 30 - June 2, 2020.

**Kim, Y-C.** Mechanistic studies and functional food materials on obesogen-induced lipid metabolism disorders. "2019 Global Research Network International Conference" organized by "National Research Foundation (NRF) of Korea. Seoul, Korea December 4, 2019.

Cho BY, Choi SI, Jung TD, Choi SH, Sim WS, Xionggao H, Ra MJ, Kim SY, Kang IJ, Han KC, **Kim, Y-C**, Lee OH. Effect of CNTM on high fat diet-induced obesity in C57BL/6J mice. *The Federation of American Societies for Experimental Biology*, San Diego. April 21-25, 2018.

Sim WS, Choi SI, Jung TD, Cho BY, Choi SH, Xionggao H, **Kim, Y-C**, Lee OH. Analysis of the food components and physiological activities of Brassica juncea from Jeongseon. *The Federation of American Societies for Experimental Biology*, San Diego. April 21-25, 2018.

Choi SH, Jang GW, Choi SI, Jung TD, Cho BY, Xionggao H, Sim WS, **Kim, Y-C**, Lee OH. Method validation of analytical method for determination of extracts of rosemary in various food matrix. *The Federation of American Societies for Experimental Biology*, San Diego. April 21-25, 2018.

**Y-C Kim:** Cellular targets of bioactive chitosan oligosaccharide for diabetes prevention. The 68<sup>th</sup> International Symposium and Annual Meeting of Korean Society of Food Science and Nutrition. Gyeongju Hwabaek International Convention Center, Korea. November 8-10, 2017

Oh J, Kim JS, Yu SY, **Kim, Y-C.** Berry extracts exert anti-diabetic effects via alpha-glucosidase and glucose transporters in human intestinal epithelial Caco-2 cells. *SPHHS Research Day at University of Massachusetts*. April 4, 2017.

Li J, **Kim, Y-C**, Wood RJ, Liu Z. Genetic ablation of TNF-alpha attenuates high fat diet-induced obesity via diminishing Wnt-signaling and determinant genes of adipogenesis. *The Federation of American Societies for Experimental Biology*, San Diego. April 2-6, 2016.

SI Jang, HN Kang, JY Lee, SG Hong, E. Apostolidis, **Y-C Kim**, YH Kim and YI Kwon: *In vitro* and *In vivo* sucrose inhibitory activity of major phenolic compounds isolated from superhongmi (*Oryza sativa* L.) inhabited in Korean peninsula. *International Conference and Exhibition on Nutraceuticals and Functional Foods, Orlando, October 2016*

YR Kang, HY Choi, JY Lee, SI Jang, **Y-C Kim**, SC Kim, E. Apostolidis and YI Kwon: Changes in anti-hyperglycemic and antioxidant activities of selected 5 onion cultivars by heat treatment process. *Nutraceuticals and Nutrition Supplements, Bangkok, Thailand, July 2016*

Kang, YR, Choi HY, Lee JY, Oh, JB, Kim, JS, Lee, JW, **Kim, Y-C**, Apostolidis E, Kwon YI. Postprandial blood glucose level reducing effect of low molecular weight chitosan oligosaccharide, GO2KA1, in healthy individuals. *The Federation of American Societies for Experimental Biology*, San Diego. April 2-6, 2016.

Kim JS, Oh J, Yu SY, **Kim, Y-C.** Effects of tea and tea pomace extract on intestinal alpha-glucosidase activity *in vitro* and postprandial hyperglycemia *in vivo*. *Annual Massachusetts Statewide Undergraduate Research Conference at University of Massachusetts*. April 26, 2016.

**Y-C Kim:** Potential mechanisms of the anti-diabetic actions of chitosan oligosaccharide. *The 82<sup>nd</sup> Annual Meeting and International Conference of Korean Society of Food Science and Technology (KoSFoST) in Pusan, S. Korea, June 4, 2015.*

SY Yu, Y Choi, YI Kwon, R Wood, **Y-C Kim.** Formononetin enhances the expression of genes related to adipocyte differentiation and insulin sensitivity. The Federation of American Societies for Experimental Biology, Boston, MA. 3/28/2015. **\*Recognized as a finalist for ASN's Emerging Leader in Nutrition Science.**

YR Kang, SH JO, SC Kim, E Apostolidis, **Y-C Kim**, HD Jang and YI Kwon: Postprandial blood glucose lowering effect of chitosan oligosaccharide (GO2KA1) in healthy individuals. *18<sup>th</sup> International Conference and 6<sup>th</sup> International Symposium of Academic Society for Functional Foods and Bioactive Compounds. Harvard Medical School, Boston MA. September 15-16, 2015*

YR Kang, SH Jo, SW Lee, SC Kim, E Apostolidis, **Y-C Kim**, HS Min, MS Lee and YI Kwon: The reduction effect of low molecular weight chitosano (GO2KA1) on postprandial blood glucose levels in healthy individuals. *The Federation of American Societies for Experimental Biology, San Diego. March 2015*

Choi Y, Noh J, Yun SW, Kwon YI, **Kim Y-C**. Effect of Isoflavones from Astragalus Membranaceus on 3T3-L1 Adipocyte Differentiation and Insulin Sensitivity. *The Federation of American Societies for Experimental Biology, Boston, MA. April 20, 2013*

Swick J, Lee, OH, and **Kim, Y-C**. Quercetin exerts anti-adipogenic effects through modulation of 3T3-L1 preadipocyte proliferation and differentiation. *The Federation of American Societies for Experimental Biology, San Diego. April 20-24, 2012.*

**Kim, Y-C**, Kim, YO, Rho J, Hong HD, Swick J, Kim, YC, and Lee, YC. Antioxidative effects of polyphenol-enriched red ginseng extracts on hydrogen peroxide-induced oxidative stress in C2C12 cells. *The Federation of American Societies for Experimental Biology, DC. April 9-13, 2011.*

Swick J, Kim YO, Lee OH, and **Kim Y-C**. Anti-obesity effect of bioactive quercetin is Linked to the early phase of adipogenesis. *SPHHS Research Day at University of Massachusetts. April 5, 2011.*

Lee OH, Kim YO, Swick J. and **Kim Y-C**. *Rhodiola*-induced anti-adipogenic effect correlates with coordinated changes of antioxidant responses in 3T3-L1 cells. *The Federation of American Societies for Experimental Biology, CA. April 24-28, 2010.*

Hong HD, Kim YO, Lee OH, and **Kim Y-C**. Differential effects of ginsenosides Rb1 and Rg3 on adipogenic and myogenic differentiation. *The Federation of American Societies for Experimental Biology, CA. April 24-28, 2010.*

**Kim Y-C** and Cho KW. Effects of bioactive isoflavone daidzein on adipocyte differentiation and insulin sensitivity. Annual Conference of the *American Council for Medicinally Active Plants*. Rutgers University, New Brunswick, NJ. July 20-23, 2010

**Kim Y-C**: Herbal Medicine Ginseng: Anti-diabetic Efficacy and Implication of Fermentation. The *International Symposium on Fermented Medicine (ISOF)*, Jecheon Korea. September 27-29, 2010.

Sen S, **Kim Y-C**, Silva JE. Role of Antioxidants Manganese Superoxide Dismutase and Catalase in Preventing Adipogenic and Promoting Osteogenic Differentiation of Human Bone Marrow Derived Mesenchymal Stem Cells (hMSC) in Hyperglycemia. *Endocrine Reviews, Suppl. 1, 31 (3):S2127. June 2010. Endocrine Society Meeting. Outstanding Abstract Award.*

Oh CG, Joe SH, Ha KS, Kim, HS, Apostolidis E, **Kim Y-C**, and Kwon YI: Anti-diabetic effects and action mechanisms of Glu-COS using in vivo and ex-vivo systems. *14th Annual Supplside West, International Trade Show and Conference, Las Vegas, NV, October 19-23, 2010.*

Swick J, Kim YO, Lee OH, and **Kim Y-C**. Anti-Obesity Effect of A Bioactive Phenolic Compound Is Associated with Antioxidant Responses in 3T3-L1 Adipocytes. *SPHHS Research Day at University of Massachusetts. April 26, 2010.*

Kim YO, Hong HD, and **Kim Y-C**. Differential Effects of Ginsenosides Rb1 and Rg3 on Adipogenic and Myogenic Differentiation. *SPHHS Research Day at University of Massachusetts. April 26, 2010.*

Gray B, Kim YO, Natarajan R, **Kim Y-C**, and Wood R. Vitamin D and TNF-alpha interactions in 3T3-L1 pre-adipocytes. *SPHHS Research Day at University of Massachusetts. April 26, 2010.*

Swick J, Lee OH, O'Fallon K, Clarkson PM and **Kim Y-C**. The anti-adipogenic effect of quercetin is associated with coordinated changes of antioxidant responses during adipogenic differentiation of 3T3-L1 cells. *The Federation of American Societies for Experimental Biology, New Orleans, LA. April 18-22, 2009.*



Lee OH, Swick Seo DH, Park CS and **Kim Y-C**. Effects of puerarin on differentiation of 3T3-L1 preadipocytes. *The Federation of American Societies for Experimental Biology*, New Orleans, LA. April 18-22, 2009.

**Kim Y-C**. Medicinal Activities of Bioactive Phytochemicals in Metabolic Diseases. International Symposium on Oriental Fermented Medicine (ISOF). Jecheon, Korea. September 24-30, 2009.

Swick J, Lee OH, O'Fallon K, Clarkson M, **Kim Y-C**. The anti-adipogenic effect of quercetin is associated with coordinated changes of antioxidant responses during differentiation of 3T3-L1 adipocytes. SPHHS Research Day at University of Massachusetts. March 26, 2009.

Swick J, Lee OH, **Kim Y-C**. A Flavonoid quercetin blocks fat cell development in 3T3-L1 adipocytes. 15th Annual Massachusetts Statewide UG Research Conference, May, 2009.

Lee O-H, Kwon Y-I, Apostolidis E, Shetty K, Lee, BY, **Kim Y-C**: *Rhodiola* extract inhibits adipocyte differentiation in 3T3-L1 cells. Experimental Biology Meeting, San Diego, CA. April 5 – April 9, 2008.  
**\*Received A Postdoctoral Poster Competition Award.**

Natarajan R, Ronnenberg AG, Wood RJ, Lee OH, **Kim Y-C**: 25-hydroxyvitamin D inhibits differentiation of 3T3-L1 preadipocytes. *The Federation of American Societies for Experimental Biology*, San Diego, CA. April 5 – April 9, 2008.

**Kim Y-C**: Impact of dietary bioactive components for prevention of chronic diseases. *International Symposium and Annual Meeting of The Korean Society of Food Science and Nutrition*. SP1-3, p47. Jeju Island, Korea. October 13-15, 2008.

Kwon Y-I, Apostolidis E, **Kim Y-C** and Shetty K: Over-expression of proline-linked antioxidant pathway and modulation of phenolic metabolites in long life span clonal line of *Origanum Vulgare* in response to uv-radiation. *Institute of Food Technologists (IFT) Annual Meeting*. New Orleans, LA, June 28-July 1, 2008.

**Kim Y-C**: Targeting the fat cell in obesity research & Regulation of fat cell differentiation by bioactive phytochemicals. *International Workshop on Development of Functional Food Components for Managing Metabolic Syndrome*. Proceedings: pp1-21 & 22-40. Faculty of Bioscience and Industry at Cheju National University, Jeju, Korea, July 4, 2008.

**Kim Y-C**: Metabolic functions of functional foods. *Annual Meeting of The Korean Society of Food Science and Technology*. IS1-3, p76. Kimdaejung Convention Center, Gwangju, Korea. June 18-20, 2008.

Oh CG, Lee OH, Kwon Y, **Kim Y-C**. Anti-diabetic and Anti-adipogenic Effects of Chitosan oligosaccharide in Rats and In Vitro 3T3-L1 Cells. 12th Annual SupplySide West International Trade Show and Conferences. Las Vegas, NV. October 22-24, 2008

Lee OH and **Kim Y-C**: Phenolic-induced anti-adipogenic effect involves down-regulation of PPAR $\gamma$  in 3T3-L1 adipocytes. *SPHHS Centers and Interest Groups on Aging, Obesity, and Women's Health at University of Massachusetts*. May 16, 2008.

Natarajan R, Wood RJ, Ronnenberg A, **Kim Y-C**: 25-hydroxyvitamin D inhibits differentiation of 3T3-L1 preadipocytes. *SPHHS Research Day at University of Massachusetts*. March 27, 2008

Lee OH and **Kim Y-C**: Phenolic-induced anti-adipogenic effect involves down-regulation of PPAR $\gamma$  in 3T3-L1 adipocytes. *SPHHS Research Day at University of Massachusetts*. March 27, 2008.

**Kim Y-C**, Lee OH, Kwon, Y-I, Apostolidis E, Shetty K, Kim GN, and Jang, H-D: *Rhodiola*-induced inhibition of adipogenesis involves dysfunctional antioxidant response associated with proline-linked pentose phosphate pathway. *The Federation of American Societies for Experimental Biology*, DC. April 28 – May 2, 2007.

Lee OH, **Kim Y-C**, Shetty K, Kwon Y-I, Apostolidis E, and Lee BY: Phenolic-linked modulation of proline-linked pentose phosphate pathway (PLPPP) and related antioxidant enzyme response during differentiation of 3T3-L1 adipocyte. *Institute of Food Technologists (IFT) Annual Meeting*. Chicago, IL. July 28<sup>th</sup> -August 1, 2007.

Han ST, Shin CG, Yang BW, Hahm YT, Lee OH, **Kim Y-C**, Shetty K, Lee BY: Analysis of ginsenoside composition of naturally grown and cultivated ginseng roots by HPLC. *Institute of Food Technologists (IFT) Annual Meeting*. Chicago, IL, July 28-August 1, 2007.

Shim S.M., Ferruzzi M.G., **Kim Y.C.**, Janle E.M. and Santerre C.R.. 2007. Predicting the Impact of Foods on Mercury Bioavailability. *National Forum on Contaminants in Fish*. Portland, ME. July 23, 2007.

Lee OH, **Kim Y-C**, Shetty K, Kwon Y-I, Apostolidis E.: Phenolic-induced inhibition of adipogenesis involves altered antioxidant response associated with praline-linked pentose phosphate pathway. *SPHHS Research Day at University of Massachusetts*. March 29, 2007.

Natarajan, R, Wood, RJ, Ronnenberg, A, **Kim-Y-C**: Influence of Vitamin D metabolites on 3T3-L1 adipocyte differentiation. *SPHHS S Research Day at University of Massachusetts*. March 29, 2007.

Lee OH, **Kim, Y-C**, Kim Y, Lee BY: Antioxidant effects of 80% ethanol extract from several olive oils. *Annual Meeting of The Korean Society of Food Science and Nutrition*, Busan, Korea. October 18-23, 2006.

Cho KW, Kim K, Burgess JR and **Kim Y-C**: Daidzein Stimulates Glucose Uptake through Activation of PPAR $\gamma$  in 3T3-L1 Adipocytes. *The Federation of American Societies for Experimental Biology*, San Francisco, CA. April 1-5, 2006.

Shim S, Ferruzzi MG, **Kim Y-C**, Janle EM, and Santerre CR: Predicting the Impact of Foods on Mercury Bioavailability. *The 8th International Conference on Mercury as a Global Pollutant*. Monona Terrace, Madison, Wisconsin, August 6<sup>th</sup> -11<sup>th</sup>, 2006.

Shim S, Ferruzzi MG, **Kim Y-C**, Janle EM, and Santerre CR: Measuring the impact of phytochemicals on methylmercury bioaccessibility using in vitro digestion coupled to a Caco-2 absorption model. *Institute of Food Technologists (IFT) Meeting*. Orange County Convention Center, Orlando, Florida. June 24<sup>th</sup> – 26<sup>th</sup>, 2006.

Cho KW and **Kim Y-C**: Daidzein ameliorates tumor necrosis factor  $\alpha$  (TNF $\alpha$ )-induced insulin resistance and increases glucose uptake in 3T3-L1 adipocytes. *The Federation of American Societies for Experimental Biology*, San Diego, CA, April 2-6, 2005.

Cho KW, Juan A, Burgess J and **Kim Y-C**. Dietary naringenin upregulates hepatic peroxisome proliferators-activated receptor  $\alpha$  (PPAR $\alpha$ ) expression in rats. *The Federation of American Societies for Experimental Biology*, San Diego, CA, April 2-6, 2005.

Cho KW and **Kim Y-C**: Daidzein ameliorates tumor necrosis factor  $\alpha$  (TNF $\alpha$ )-induced insulin resistance and increases glucose uptake in 3T3-L1 adipocytes. *5<sup>th</sup> Annual Meeting and Symposium*. Purdue University & Univ. of Alabama at Birmingham Botanical Research Center, February 24-26, 2005.

Cho KW, Juan A, Burgess J and **Kim Y-C**. Dietary naringenin upregulates hepatic peroxisome proliferators-activated receptor  $\alpha$  (PPAR $\alpha$ ) expression in rats. *5<sup>th</sup> Annual Meeting and Symposium*. Purdue University & Univ. of Alabama at Birmingham Botanical Research Center, February 24-26, 2005.

## INVITED PRESENTATIONS (NATIONAL AND INTERNATIONAL) (Since 2005)

- Kim Y-C:** *A plenary speaker at 2019 KIIT (Kangwon Institute of Inclusive Technology) Medici Symposium. The role of adipose tissue inflammation in obesity-induced metabolic disorders. International Collaborative Research Center at Kangwon National University. Chuncheon, Korea. December 23, 2019*
- Kim Y-C:** *8<sup>th</sup> Food & Nutrition Well-being Symposium. Becoming a dietitian and nutritionist in the UMass and U.S. Department of Food and Nutrition, Hannam University. Potential mechanisms of anti-diabetic actions of phytoestrogen. Daejeon, Korea. December 6, 2019.*
- Kim Y-C:** *Vascular Research Center, Kangwon National University, S. Korea. Role of adipose tissue linking obesity and diabetes: development of functional foods tailored for diabetes prevention. September 5, 2019.*
- Kim Y-C:** *Department of Food Science & Biotechnology, Kyunghee University. Development of functional foods tailed for diabetes prevention: from bench to market. Youngin, Korea. July 23, 2019.*
- Kim Y-C:** *A keynote speaker at "The 40<sup>th</sup> International Symposium and Annual Meeting of The Korean Society of Food Preservation." Food Processing and preservation Technologies for Safe and Healthy Food. Pyeongchang, Korea. August 21-23, 2019.*
- Kim Y-C:** *Kunpoong, Bio. Co. LTD, Jeju City, S. Korea. Potential mechanisms of anti-diabetic actions of formononetin. Jeju, Korea. June 4, 2019.*
- Kim Y-C:** *Department of Food and Nutrition, Hannam University, S. Korea. Potential mechanisms of anti-diabetic actions of phytoestrogen. Daejeon, Korea. July 23, 2019.*
- Kim Y-C:** *Proteinworks Co. LTD. Bioactivity and metabolic functions of bioactive natural compounds. Daejeon, Korea. July 24, 2019.*
- Kim Y-C:** *International Symposium and Annual Meeting, The Korean Society of Food Science and Nutrition. Cellular targets of bioactive chitosan oligosaccharide for diabetes prevention. Hwabaek International Convention Center, Gyeongju, S. Korea. November 8-10, 2017.*
- Kim Y-C:** *Kunpoong, Bio. Co. LTD, Jeju City, S. Korea. Product development strategies from natural sources unique to Jeju Island for potential research and commercialization. June 19, 2017.*
- Kim Y-C:** *Department of Food and Nutrition, Hannam University, S. Korea. Bioactivity and functional properties of ginsenosides. June 15, 2017.*
- Kim Y-C:** *Proteinworks Co. LTD, Daejeon City, S. Korea. Product development strategies from natural sources. June 15, 2017.*
- Kim Y-C:** *Kunpoong Bio. Co. LTD, Jeju City, S. Korea. Potential research and product development strategies from natural sources. June 16, 2016.*
- Kim Y-C:** *Department of Food and Nutrition, Hannam University S. Korea. Anti-diabetic effects of chitosan oligosaccharide: from bench to market. June 14, 2016.*
- Kim Y-C:** *Korea Research Institute of Bioscience & Biotechnology, Ochang, S. Korea. Molecular mechanisms of the anti-diabetic actions of chitosan oligosaccharide. July 7, 2016.*
- Kim Y-C:** *Proteinworks Co. LTD, Daejeon City, S. Korea. Dietary supplements for health promotion. June 14, 2016.*
- Kim Y-C:** *Korea Research Institute of Bioscience & Biotechnology, Daejeon, S. Korea. Molecular mechanisms of the anti-diabetic actions of chitosan oligosaccharide. July 7, 2015.*
- Kim Y-C:** *Korea Food Research Institute, Kyeonggi-Do, S. Korea. Potential mechanisms of the anti-diabetic actions of chitosan oligosaccharide. July 1, 2015.*
- Kim Y-C:** *Department of Food Science & Biotechnology, Kangwon National University, S. Korea. Potential mechanisms of the anti-diabetic actions of chitosan oligosaccharide. June 30, 2015.*
- Kim Y-C:** *Daegu Hanny University, S. Korea. Molecular mechanisms of the anti-diabetic actions of chitosan oligosaccharide. June 22, 2015.*
- Kim Y-C:** *The 82<sup>nd</sup> Annual Meeting and International Conference of Korean Society of Food Science and Technology (KoSFoST), Busan, S. Korea. Potential mechanisms of the anti-diabetic actions of chitosan oligosaccharide. June 3-5, 2015.*
- Kim Y-C:** *BK21 International Biobiz-Symposium, Hannam University, S. Korea. Potential mechanisms of the anti-diabetic actions of chitosan oligosaccharide. June 1-2, 2015.*
- Kim Y-C:** *Department of Biology & Technology Innovation Center, Jeju University, S. Korea. The adipocyte as a therapeutic target by dietary bioactive compounds. June 9, 2014.*
- Kim Y-C:** *Department of Pharmacy, Chungnam National University, S. Korea. The adipocyte: a therapeutic target by dietary bioactive compounds. June 5, 2014.*

- Kim Y-C:** *Department of Food & Nutrition, Hannam University, S. Korea.* The adipocyte as a therapeutic target by dietary bioactive compounds. June 4, 2014.
- Kim Y-C:** *Kyunghee University, S. Korea.* Therapeutic potential of bioactive puerarin from Kudzu root. July 23, 2013
- Kim Y-C:** *Jeju University, S. Korea.* Impact of Natural bioactive compounds on lipid metabolism. April 29, 2013
- Kim Y-C:** *5<sup>th</sup> KUDH (Keimyung University Dongsan Hospital) Cancer Center & Biobank International Symposium, S. Korea.* Therapeutic potential of dietary bioactive components targeting metabolic syndrome and cancer. June 22, 2013
- Kim Y-C:** *The 80<sup>th</sup> Annual Meeting of Korean Society of Food Science and Technology, S. Korea.* Bioactivity and functional properties of ginsenosides in metabolic disorders. August 28, 2013.
- Kim Y-C:** *79<sup>th</sup> International Conference on "Food Science and Communications": Bioactive flavonoids for lipid metabolism and metabolic syndrome. S. Korea.* June 13-15, 2012.
- Kim Y-C:** *Kyunghee Univeristy, S. Korea.* Medicinally active phytochemicals and regulation of fat cell function and adiposity. June, 2012.
- Kim Y-C:** *Hannam Univeristy, S. Korea.* Regulation of fat cell function and adiposity by phytochemicals. June, 2012.
- Kim Y-C:** *Keimyung University, Dongsan Hospital, S. Korea.* Medicinally active phytochemicals on the regulation of fat cell function and adiposity. June, 2012.
- Kim Y-C:** *BioTap Residential Program at UMass, Impact of dietary bioactive phytochemicals in disease prevention and health promotion.* November 5, 2012.
- Kim Y-C:** *Endocrine Grand Rounds. Division of Endocrinology, Diabetes and Metabolism at Baystate Medical Center, Springfield MA.* Biology of the White Adipocyte. March 1, 2011.
- Kim Y-C:** *Boston University, Medical School. Graduate Program in Medical Nutrition Sciences.* Spring 2011.
- Kim Y-C:** *The 2010 World Oriental Medicine Bio Expo. Herbal Medicine - Efficacy and Action Mechanism. Chungbuk Techno-Park. Jecheon, Korea.* September 27-29, 2010.
- Kim Y-C:** *The Annual Conference of American Council for Medicinally Active Plants (ACMAP). Human Health and Bioactives. Medicinal Activities of Bioactive Phytochemicals. Rutgers University, New Brunswick, NJ.* July 20-23, 2010.
- Kim Y-C:** *The 4<sup>th</sup> Annual Meeting and International Symposium on Development of Functional Foods for Managing Metabolic Syndrome. Jeju, Korea.* September 20-22, 2010.
- Kim Y-C:** *The 3<sup>rd</sup> International Symposium on Oriental Fermented Medicine. Medicinal Activities of Bioactive Phytochemicals in Obesity and Diabetes. Chungbuk Oriental Medicine Center.* September 23-25, 2009.
- Kim Y-C:** *International Symposium and Annual Meeting of the Korean Society of Food Science and Nutrition, Jeju, Korea,* Impact of dietary bioactive compounds for prevention of chronic diseases. October 13-15, 2008.
- Kim Y-C:** *International Symposium on Wellness Foods: Science and Technology, Annual Meeting of Korean Society of Food Science and Technology at Kimdaejung Convention Center, Gwangju, Korea,* Metabolic functions of functional and wellness foods. June 18-20, 2008.
- Kim Y-C:** *Jeju Hi-Tech Industry Development Institute & Jeju Seaweed Industry Development Agency, Cheju National University, Jeju, Korea,* Regulation of fat cell differentiation by bioactive phytochemicals. July 4, 2008.
- Kim Y-C:** *International Workshop on Development of Functional Food Components for Managing Metabolic Syndrome. Faculty of Bioscience and Industry, Cheju National University, Jeju, Korea,* Targeting the fat cell in obesity research. July 4, 2008.
- Kim Y-C:** *Invited speaker, Department of Food Science and Nutrition, College of Life Science and Nanotechnology. Hannam University, Korea,* Introduction of research programs of Nutrition Department at UMASS for potential research collaboration and international exchange programs. June 24, 2008.
- Kim Y-C:** *Invited speaker, Graduate School of Complementary & Alternative Medicine, College of Medicine, Pochon CHA University, Korea.* Introduction of research programs of Nutrition Department at UMASS for potential research collaboration and international exchange programs. July 7, 2008.
- Kim Y-C:** *Invited speaker, Nutrition Education Program (NEP), Team Professional Development Training, at the University of Massachusetts, Shrewsbury, MA.* Role of dietary factors in fat cell and obesity: Beyond nutrients. November 19, 2007.

- Kim Y-C:** *Molecular and Cellular Biology (MCB) Program* at the University of Massachusetts, Amherst, The fat cell in obesity and diabetes: regulatory genes and impact of phytochemicals. November 20, 2006.
- Kim Y-C:** Collaborative workshop between *MATFORSK (Norwegian Food Institute) and UMASS (initiated by Food Science Department, Dr. K. Shetty)*. Regulation of Adipogenic Gene Expression by Bioactive Phytochemicals. October 3, 2006.
- Kim Y-C:** *Department of Food Science, College of Natural Resources & the Environment at the University of Massachusetts, Amherst*, The fat cell in obesity and diabetes: regulatory genes and impact of phytochemicals & flavonoids. October 18, 2005.
- Kim Y-C:** *Department of Kinesiology, School of Public Health & Health Sciences at the University of Massachusetts, Amherst*, The fat cell in obesity and diabetes: regulatory genes and impact of phytochemicals & flavonoids. November 21, 2005.
- Kim Y-C:** Department of Human Nutrition, College of Applied Health Sciences at the *University of Illinois, Chicago*, Fat cell differentiation and metabolism: regulatory genes and the impact of phytochemicals & flavonoids. June 27, 2005.
- Kim, Y-C:** Department of Nutrition, School of Public Health and Health Sciences at the *University of Massachusetts-Amherst*, The fat cell in obesity and diabetes: regulatory genes and impact of phytochemicals & flavonoids. May 17, 2005.
- Kim, Y-C:** Department of Nutrition, the School of Human Environmental Sciences at the *University of North Carolina-Greensboro*. Fat cell differentiation: regulatory genes and the impact of soy phytochemicals. March 14, 2005.

#### TEACHING (Courses Taught at UMass)

- NUTR 130: Nutrition for a Healthy Lifestyle (4 cr)  
 NUTR 130H: Nutrition for a Healthy Lifestyle (Honors, 4 cr)  
 NUTR 230: Basic Nutrition (3 cr)  
 NUTR 430: Nutrition and Metabolism (3 cr)  
 NUTR 494: Senior Seminar (1 cr)  
 NUTR 630, Advanced Nutrition and Chronic Diseases (3 cr)  
 NUTR 697C: Nutrition Journal Club (1 cr)  
 NUTR 794A: Graduate Nutrition Seminar (1 cr)

#### SERVICE ACTIVITIES

##### Department Service:

- Spring 2021 Member, Departmental Personnel Committee
- Fall 2020 *Interim GPD (Graduate Program Director)*  
 Member, Graduate Curriculum Committee  
 Co-Chair, Dept. "Nutrients & Bioactives for Health" Research Cluster
- 2018-2019 *Member, Departmental Personnel Committee*  
 Chair, Search Committee for tenure-track faculty in Nutrition  
 Co-Chair, Dept. "Nutrients & Bioactives for Health" Research Cluster
- 2018-2019 *Member, Departmental Personnel Committee*  
 Chair, Search Committee for tenure-track faculty in Nutrition  
 Co-Chair, Dept. "Nutrients & Bioactives for Health" Research Cluster
- 2017-2018 *Chair, Departmental Personnel Committee*  
 Coordinator: Departmental Laboratory Safety  
 Co-Chair, Dept. "Nutrients & Bioactives for Health" Research Cluster
- 2016-2017 *Chair, Departmental Personnel Committee*  
 Co-Chair, Dept. "Nutrients & Bioactives for Health" Research Cluster

2015-2016      *Chair*, Departmental Personnel Committee  
 Member, Sub Curriculum Committee  
*Co-Chair*, Dept. “Nutrients & Bioactives for Health” Research Cluster

2014-2015      Member, Departmental Personnel Committee  
*Co-Chair*, Dept. “Nutrients & Bioactives for Health” Research Cluster

2013-2014      Member, Departmental Personnel Committee  
 Member, Beal’s Lecture Series  
*Co-Chair*, Dept. “Nutrients & Bioactives for Health” Research Cluster

2012-2013      *Chair*, Departmental Personnel Committee  
 Member, Beal’s Lecture Series  
*Co-Chair*, Search Committee (ComColl Honors Assist. Prof.)  
 Member, Dept Curriculum Committee  
 Coordinator: Departmental Laboratory Safety  
*Co-Chair*, Dept. “Nutrients & Bioactives for Health” Research Cluster

2011-2012      *Chair*, Departmental Personnel Committee  
*Chair*, Search Committee for Assist. Prof. position (Nutrition)  
*Co-Chair*, Search Committee (ComColl Honors Assist. Prof.)  
 Coordinator: Departmental Laboratory Safety

2010-2011      *Chair*, Scholarship Awards Committee  
*Co-Chair*, Search Committee (ComColl Honors Assist. Prof.)  
 Member, Graduate Curriculum and Policy  
 Member, Dietetic Internship Advisory Committee  
 Coordinator: Departmental Laboratory Safety  
 Manager: OWL Safety Training

2009-2010      Member, Dietetic Internship Advisory Committee  
 Member, Personnel Committee  
 Member, Graduate Curriculum and Policy Committee  
 Member, Annual Virginia Beal Day Committee  
 Coordinator: Departmental Laboratory Safety  
 Manager: OWL Safety Training

2008-2009      Member, Curriculum Committee  
 Member, Dietetic Internship Advisory Committee  
 Member, Personnel Committee  
*Co-Chair*, Departmental Search Committee (DI & DPD Director)  
 Member, Graduate Admission Committee

2007-2008      Member, Personnel Committee  
 Member, Curriculum Committee  
 Member, Graduate Admission Committee  
 Member, Departmental Faculty Search Committee

2006-2007      Member, Personnel Committee  
 Member, Curriculum Committee  
 Member, Graduate Admission Committee  
 Member, Annual Virginia Beal Day Committee  
 Member, Departmental Space Committee

2005-2006      Member, Personnel Committee  
 Member, Curriculum Committee  
 Member, Graduate Admission Committee  
 Member, Annual Virginia Beal Day Committee  
 Member, Departmental Faculty Search Committee

**School (SPHSS) Service:**

2019-2020 Representative/Member, SPHHS Personnel Committee

2018-2019 Representative/Member, SPHHS Personnel Committee  
Member, SPHHS Strategic Planning Committee

2017-2018 Representative/Member, SPHHS Personnel Committee (Nutrition Department)  
Representative/Member, SPHHS Personnel Committee (Environmental Health Sciences)  
Member, SPHHS Strategic Planning Committee

2016-2017 Member, SPHHS Strategic Planning Committee

2015-2016 Representative/Member, SPHHS Personnel Committee

2014-2015 Representative/Member, SPHHS Personnel Committee

2013-2014 Representative/Member, SPHHS Personnel Committee

2012-2013 Member, SPHHS Research Committee  
Member, Dept Curriculum Committee  
Judge, SPHHS Research Day Poster Competition  
Member, SPHHS Diversity Committee

2011-2012 Member, SPHHS Research Committee  
Judge, SPHHS Research Day Poster Competition  
Member, UMass Obesity Interest Group

2010-2011 Member, SPHHS Research Committee  
Judge, SPHHS Research Day Poster Competition

2009-2010 Member, SPHHS Research Committee  
Judge, SPHHS Research Day Poster Competition

2007-2010 Member, SPHHS Research Committee

2007-2010 Judge, SPHHS Research Day Poster Competition

2007-2008 Participant, SPHHS Early Career Faculty Mutual Mentoring Program

2006-2010 Member, SPHHS Obesity Special Interest Group

2007-2009 Member, SPHHS Curriculum Committee

Spring 2008 Participant, Mellon Mutual Mentoring Mini-Conference

**University Service:**

2019-2020 Member, MCB program committee (Recruiting & original research proposal, ORP)  
Representative, Massachusetts Society of Professors (MSP) Union

2018-2019 Member, MCB program committee (Recruiting & ORP)

2017-2018 Member, MCB program committee (Recruiting & ORP)

2016-2017 Member, MCB program committee (Recruiting & ORP)

2015-2016 Member, MCB program committee (Recruiting & ORP)

2014-2015 Member, MCB program committee (Recruiting & ORP)

2013-2014 Member, MCB program committee (Recruiting & ORP)

2012-2013 Member, MCB program committee (Recruiting & ORP)

2011-2012 Member of UMass Obesity Special Interest Group  
Member, MCB program committee (Recruiting & ORP)  
Member of Endocrine Metabolic Working Group (EMWG): UMass, PVLISI, Baystate Medical Center, Springfield MA.

2009-2011 Member of Endocrine Metabolic Working Group (EMWG): UMass, PVLISI, Baystate Medical Center, Springfield MA.  
Member, MCB program committee (Recruiting & ORP)  
Member of UMass Obesity Special Interest Group

2009-2010	Member, UMass New Laboratory Science Building, Space Committee Member, Center for Metabolic Regulation Research, UMass/Baystate Medical Center Member, MCB program committee (Recruiting & ORP)
Fall 2009	UMass New Laboratory Science Building, Space Committee Member Member, MCB program committee (Recruiting & ORP)
Fall 2007	UMass Life Science Initiatives, <i>Ad hoc</i> Advisory Committee Member Member, MCB program committee (Recruiting & ORP)
Spring 2007	Informal evaluations of faculty candidates for Pioneer Valley Life Sciences Institute Member, MCB program committee (Recruiting & ORP)
Fall 2006	Informal evaluations of faculty candidates for Pioneer Valley Life Sciences Institute Member, MCB program committee (Recruiting & ORP)
2006-2012	Faculty Advisor & Master Instructor, UMass Tae-Kwon-Do Martial Art Club (Student Organization at UMass Amherst)

## **PROFESSIONAL SERVICE ACTIVITIES**

### **National or International Symposia Organized/Chaired**

- *Chaired* on “Life Science Symposium” at “2019 Global Research Network International Conference in Seoul”, organized by “National Research Foundation (NRF) of Korea. Seoul, Korea. December 4, 2019.
- *Organized and Chaired* on Mini-symposium, The 82nd Annual Meeting and International Conference of Korean Society of Food Science. Busan, Korea. June 2-6, 2015.
- *Organized and Co-Chaired* on “Functional Foods *Mini-symposium*, The 80th International Conference on “Food Science and Communications. Cheonan, Korea. August 28-30, 2013.
- *Organized & Co-Chaired* on “*Dietary Bioactive Compounds Mini-symposium*” in Federal American Society of Experimental Biology meeting, San Diego, CA. April 5-9, 2008.
- *Co-Chaired* on “*Nutrient-Gene Interaction Mini-symposium*” in Federal American Society of Experimental Biology meeting, San Diego, CA. April 11-15, 2003.

### **Professional Positions**

- *An international Research Fellow* of the MSIT (Ministry of Science and ICT, Information & Communications Technology) and NRF (National Research Foundation of Korea): A competitive fellowship selected based on recognition of outstanding research activities to establish a long-term international joint research and network. June 1, 2019 – December 31, 2019.

### **Major Committees & Advisory Boards**

- *An Invited External Academic Program Reviewer* for Nutrition for Wellness Program in Dept. of Animal Science, Food and Nutrition, Southern Illinois University, Carbondale. Spring 2020, USA.
- *An External Reviewer* for a promotion & tenure case, University of Arkansas, Fayetteville, AR. October 2015.
- *An External reviewer* for a promotion & tenure case, Southern Illinois University, Carbondale, IL. September 2014
- *An External Academic Program Reviewer* for the graduate program in Department of Animal Science, Food and Nutrition, Southern Illinois University, Carbondale. November 2011, USA.
- *A Scientific Advisor, Kunpoong Bio Co. Ltd.*, S. Korea. Development of chitosan oligosaccharide products for type 2 diabetes management (Orisett®, GO2KA1®). *2011-present*.
- *A Scientific Advisor, Proteinworks Co. Ltd*, Daejeon, S. Korea. Identifying bioactive compounds from natural sources for functional foods development. *2013-present*.
- *A Scientific Advisor, Uirim Biotech Co. Ltd*, Chungbuk Techno-Park, Jechon S. Korea. Identification and characterization of anti-diabetic bioactives from oriental medicinal plants. *2009-2013*.



- *A Scientific Advisory Committee Member* for "The 2010 World Oriental Medicine Bio Expo" Jecheon, Korea. September 16-October 5, 2010.
- *A Chief Science Advisor* for Research Project (Anti-diabetic and anti-obesity effects of Jeju onion bioactive compounds; \$700,000) from 1/1/2015-12/31/2018 (PI: YI Kwon, Hannam University & Kunpoong Bio. Co. LTD., Korea)

#### **Editorial Boards**

- *Journal Editorial Board Member*. Journal of Medicinal Food, January 2019 - present
- *Journal Editorial Board Member*. Journal of Food Hygiene and Safety, 2018 - present
- *Journal Review Editor*. Frontiers in Chemistry and Nutrition, 2014 – present

#### **Professional Partnerships & Diversity Initiatives Established**

- *Established a MoU* (Memorandum of Understanding) for Internationalization Programs between UMass, Amherst and Hannam University, S. Korea. 2014.
- *Established a MoU* (Memorandum of Understanding) for Internationalization Programs between UMass, Amherst and Chung-Ang University, S. Korea. 2013.
- *Established a MoU* (Memorandum of Understanding) for Internationalization Programs between UMass, Amherst and Chungbuk Oriental Medicine Center, S. Korea. 2009-2014.
- *Established a MoU* (Memorandum of Understanding) for Internationalization Programs between UMass, Amherst and Kangwon National University, S. Korea. 2018-2023.

#### **Service to Professional Societies & International Conferences**

- Abstract Reviewer - Life Science Symposium at Global Research Network International Conference in Seoul, Korea (2019)
- Review Committee - Predoctoral Fellowship Proposals, American Society of Nutrition (ASN) for the 79<sup>th</sup> Scientific Sessions and Annual Meeting (2015)
- Judge, Oral Presentation Competition & Abstract Reviewer -The 82nd Annual Meeting and International Conference of Korean Society of Food Science. Busan, Korea (2015)
- Judge, Poster Competition & Abstract Reviewer - Functional Foods *Mini-symposium*, The 80th International Conference on "Food Science and Communications. Cheonan, Korea (2013)
- Judge, Oral Presentation Competition & Abstract Reviewer - *The 2010 World Oriental Medicine Bio. Expo*" Jecheon, Korea (2010)
- Judge, Poster Competition & Abstract Reviewer - Dietary Bioactive Compounds Symposium, American Society of Nutrition (2008)
- Judge, Poster Competition & Abstract Reviewer - Nutrient-Gene Interaction Symposium, American Society of Nutrition (2003)

#### **Editorial Services for Peer-Reviewed Journals**

*International Journal of Obesity*  
*Journal of Nutritional Biochemistry*  
*Genes & Nutrition*  
*American Journal of Physiology*  
*Frontiers in Chemistry*  
*Hormone & Metabolic Research Journal*  
*Journal of Food Science*  
*Food Science and Biotechnology*  
*Ecology of Food and Nutrition*  
*Lipids*  
*Nutrition Research*  
*Journal of Nutrition*  
*International Journal of Molecular Science*  
*Nutrition Research and Practice*

*Life Sciences*  
*BMC Complementary and Alternative Medicine*  
*Journal of Medicinal Food*  
*Frontiers in Nutrition*  
*Journal of Functional Foods*  
*Journal of Nutritional Disorders & Therapy*  
*Nutrients*  
*J. of the American Chemist's Society*  
*Food and Function*  
*International J. of Food Science & Technology*  
*Journal of Diabetes Research*  
*Biofactors*  
*British Journal of Nutrition*  
*J. of Agricultural & Food Chemistry*