

Curriculum Vitae

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

Signature Seongho

Date: 08/15/2016

I. Personal Information

I.A. UID, Last Name, First Name, Middle Name, Contact Information

Name: Seong-Ho Lee

UID: 112234010

Position: Assistant Professor (08/2011-present)

Institution: Department of Nutrition and Food Science, College of Agriculture and Natural Resources, University of Maryland

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I.B. Academic Appointments at UMD

Academic appointment: Teaching (50%) and Research (50%)

Appointment date: August 23, 2011

I.C. Other Employment

<i>Dates</i>	<i>Institution</i>
04/15/2000 - 06/30/2002	Post-doctorate, Department of Animal Science Colorado State University, Fort Collins, CO 80523 Research area: Nutrition and Growth Physiology
07/01/2002 - 01/31/2004	Post-doctorate, Department of Biochemistry University of Wisconsin, Madison, WI 53706 Research area: Nutritional Biochemistry and Lipid Metabolism
02/01/2004 - 06/30/2007	Post-doctorate, Department of Pathobiology University of Tennessee, Knoxville, TN 37996 Research area: Cancer Biology
07/01/2007 - 07/30/2011	Research Assistant Professor, Department of Pathobiology, University of Tennessee, Knoxville, TN 37996 Research area: Chemoprevention

I.D. Educational Background

<i>Dates</i>	<i>Degree</i>	<i>Institution</i>
02/25/1991	B.S.	Korea University, Animal Science
02/25/1993	M.S.	Korea University, Animal Nutrition
02/25/1999	Ph.D.	Korea University, Animal Nutrition & Physiology

I.E. Professional Certifications, Licenses, and Memberships

American Association of Cancer Research (Active member, 2012 - present)

American Society for Biochemistry and Molecular Biology (Active member, 2012 - present)

II. Research, Scholarly, Creative and/or Professional Activities

II.A. Chapters

II.A.1. Books

1. Baek SJ, **Lee S-H. (2008)** Encyclopaedic Handbook of Beer in Health and Disease Prevention (Title: Anti-cancer property of epicatechin gallate in colon cancer cells). Elsevier Inc. p869-876. ISBN: 978-0-12-373891-2

II.A.2. Encyclopedia

1. **Lee S-H. (2012)** Invited/authored in Essay of "Encyclopedia of Cancer" (SpringerReference) Title: Aspirin, ISBN: 978-3-642-16482-8 (Print) 978-3-642-16483-5 (Online) (Affiliation: UMD) Webpage: www.springerreference.com/docs/html/chapterdbid/172072.html

II.B. Refereed Journals

II.B.1. Refereed Journal Articles

(*, Corresponding author; #, Graduate student or post-doctoral fellow from Dr. Lee's lab)

1. **Lee S-H, Son Y-S. (1993)** Characteristics of nitrate reduction by rumen microorganism and responses of host animal to prolonged nitrate intake. *Korean J. Dairy Sci.* 15(4):261-270.
2. Son Y-S, Yu B-W, Han H-C, **Lee S-H, Lee C-J, Kim K-S. (1994)** A field study on the ruminal pH of lactating cows according to feeding system in Korea. *Korean J. Dairy Sci.* 16(4):326-334.
3. Han H-C, **Lee S-H, Son Y-S. (1994)** *In situ* and *in vitro* evaluations of some feed proteins heat-treated by different processing methods. *Korean J. Anim. Nutr. Feed* 18(6):491-498.
4. Son Y-S, Kim S-H, Hong S-H, **Lee S-H. (1998)** Effect of feeding bentonite and granite porphyry on ruminal buffering activity and fermentation pattern. *Korean J. Dairy Sci.* 20(1):21-32.
5. **Lee S-H, Hong SH, Son YS. (1999)** Studies on the substances modulating nitrate and nitrite reduction by rumen microbes. *Korean J. Anim. Nutr. Feed.* 23(5):411-418.
6. **Lee S-H, Kim KD, Ko KS, Son YS. (2000)** Retinoic acid level and function of porcine thyroid cells *in vitro*. *Korean J. Anim. Sci. Technol.* 42(2):165-172.
7. **Lee S-H, Engle TE, Hossner KL. (2002)** Effects of dietary copper on the expression of lipogenic genes and metabolic hormones in steers. *J. Anim. Sci.* 80(7):1999-2005. PMID: 12162670
8. **Lee S-H, Hossner KL. (2002)** Coordinate regulation of ovine adipose tissue gene expression by propionate. *J. Anim. Sci.* 80(11):2840-2849. PMID: 12462251
9. **Lee S-H, Hossner KL. (2002)** Effects of bovine colostrum ultrafiltrates on growth and differentiation of 3T3-L1 preadipocytes. *Biotechnol Appl Biochem.* 36:205-212. PMID: 12452804
10. Rahman SM, Dobrzyn A, Dobrzyn P, **Lee S-H, Miyazaki M, Ntambi JM. (2003)** Stearoyl-CoA desaturase 1 deficiency elevates insulin signaling components and downregulates protein-tyrosine phosphatase 1B in muscle. *Proc. Natl. Acad. Sci. USA.* 100(19):11110-11115. PMID: 12960377
11. Miyazaki M, Dobrzyn A, Sampath H, **Lee S-H, Man WC, Chu K, Peters JM, Gonzalez FJ, Ntambi JM. (2004)** Reduced adiposity and liver steatosis by stearoyl-CoA desaturase deficiency are independent of peroxisome proliferator-activated receptor- α . *J. Biol. Chem.* 279(33):35017-35024. PMID: 15180999
12. **Lee S-H, Dobrzyn A, Dobrzyn P, Rahman SM, Miyazaki M, Ntambi JM. (2004)** Lack of stearoyl-CoA desaturase 1 upregulates basal thermogenesis, but causes hypothermia in cold

- environment. *J. Lipid Res.* 45(9):1674-1682. PMID: 15210843
13. Yamaguchi K, **Lee S-H**, Eling TE, Baek SJ. **(2004)** Identification of nonsteroidal anti-inflammatory drug-activated gene (NAG-1) as a novel downstream target of phosphatidylinositol 3-kinase/AKT/GSK-3 β pathway. *J. Biol. Chem.* 279(48): 49617-49623. PMID: 15377673
 14. Baek SJ, Kim J-S, Jackson FR, Eling TE, McEntee MF, **Lee S-H**. **(2004)** Epicatechin gallate-induced expression of NAG-1 is associated with growth inhibition and apoptosis in colon cancer cells. *Carcinogenesis* 25(12):2425-2432. PMID: 15308587
 15. Rahman SM, Dobrzyn A, **Lee S-H**, Dobrzyn P, Miyazaki M, Ntambi JM. **(2005)** Stearoyl-CoA desaturase 1 deficiency increases insulin signaling and glycogen accumulation in brown adipose tissue. *Am. J. Physiol. Endocrinol. Metab.* 288:E381-387. PMID: 15494611
 16. Dobrzyn A, Dobrzyn P, **Lee S-H**, Miyazaki M, Cohen P, Asilmaz E, Hardie DH, Friedman JM, Ntambi JM. **(2005)** Stearoyl-CoA desaturase 1 deficiency reduces ceramide synthesis by down-regulating serine palmitoyltransferase and increasing β -oxidation in skeletal muscle. *Am. J. Physiol. Endocrinol. Metab.* 288:E599-607. PMID: 15562249
 17. Baek SJ, Kim J-S, Moore SM, **Lee S-H**, Martinez J, Eling TE. **(2005)** Cyclooxygenase inhibitors induce the expression of the tumor suppressor gene EGR1, which results in the up-regulation of NAG-1, an anti-tumorigenic protein. *Mol. Pharmacol.* 67(2):356-364. PMID: 15509713
 18. **Lee S-H**, Kim J-S, Yamaguchi K, Eling TE, Baek SJ. **(2005)** Indole-3-carbinol and 3,3'-diindolylmethane induce expression of NAG-1 in a p53 independent manner. *Biochem. Biophys. Res. Commun.* 328:63-69. PMID: 15670751
 19. Kim J-H, Yamaguchi K, **Lee S-H**, Tithof, PK, Saylor GS, Yoon J-H, Baek SJ. **(2005)** Evaluation of polycyclic aromatic hydrocarbons in the activation of early growth response-1 and peroxisome proliferator activated receptors. *Toxicol. Sci.* 85:585-593. PMID: 15716483
 20. Yamaguchi K, **Lee S-H**, Kim J-S, Wimalasena J, Kitajima S, Baek SJ. **(2006)** Activating transcription factor 3 and early growth response-1 are the novel targets of LY294002 in a PI3K independent pathway. *Cancer Research.* 66:2376-2384. PMID: 16489044
 21. **Lee S-H**, Yamaguchi K, Kim J-S, Eling TE, Safe S, Park Y, Baek SJ. **(2006)** Conjugated linoleic acid stimulates an anti-tumorigenic protein NAG-1 in an isomer specific manner. *Carcinogenesis* 27(5):972-981. PMID: 16286461
 22. Yamaguchi K, **Lee S-H**, Eling TE, Baek SJ. **(2006)** A novel peroxisome proliferator-activated receptor γ ligand, MCC-555, induces apoptosis via posttranscriptional regulation of NAG-1 in colorectal cancer cells. *Molecular Cancer Therapeutics* 5(5):1352-1361. PMID: 16731769
 23. Baek SJ, Okazaki R, **Lee S-H**, Martinez J, Kim J-S, Yamaguchi K, Mishina Y, Martin DW, Shoieb A, McEntee MF, Eling TE. **(2006)** Nonsteroidal anti-inflammatory drug activated gene-1 over-expression in transgenic mice suppresses intestinal neoplasia. *Gastroenterology* 131(5):1553-1560. PMID: 17101328
 24. Lim YC[§], **Lee S-H**[§], Song MH, Yamaguchi K, Yoon J-H, Choi EC, Baek SJ. **(2006)** Growth inhibition and apoptosis by (-)-epicatechin gallate are mediated by cyclin D1 suppression in head and neck squamous carcinoma cells. *Eur J Cancer* 42:3260-3266. PMID: 17045795
[§]equally contributed
 25. Cho K-N, Sukhthankar M, **Lee S-H**, Yoon J-H, Baek SJ. **(2007)** Green tea catechin epicatechin gallate induces tumor suppressor protein ATF3 via EGR-1 activation. *Eur J Cancer* 43:2404-2412. PMID: 17764926
 26. **Lee S-H**, Cekanova M, Baek SJ. **(2008)** Multiple mechanisms are involved in 6-gingerol-induced cell cycle arrest and apoptosis in human colorectal cancer cells. *Molecular Carcinogenesis* 47:197-208. PMID: 18058799
 27. Sukhthankar M, Yamaguchi K, **Lee S-H**, McEntee MF, Eling TE, Hara Y, Baek SJ. **(2008)** A green tea component suppresses post-translational expression of basic fibroblast growth factor in colorectal cancer. *Gastroenterology* 134:1972-1980. PMID: 18549879

28. **Lee S-H**, Bahn JH, Choi CK, Whitlock NC, English AE, Safe S, Baek SJ. **(2008)** ESE-1/EGR-1 pathway plays a role in tolfenamic acid-induced apoptosis in colorectal cancer cells. *Molecular Cancer Therapeutics* 7(12):3739-3750. PMID: 19074849
29. Iguchi G, Chrysovergis K, **Lee S-H**, Baek SJ, Langenbach R, Eling TE **(2009)** A reciprocal relationship exists between non-steroidal anti-inflammatory drug-activated gene-1 (NAG-1) and cyclooxygenase-2. *Cancer Letter* 282(2):152-158. PMID: 19375854
30. Cekanova M, **Lee S-H**, Donnell RL, Sukhthankar M, Eling TE, Fischer SM, Baek SJ. **(2009)** Nonsteroidal Anti-inflammatory Drug-Activated Gene-1 Expression Inhibits Urethane-Induced Pulmonary Tumorigenesis in Transgenic Mice. *Cancer Prevention Research* 2(5):450-458. PMID: 19401523
31. Choi CK, Sukhthankar M, Kim C-H, **Lee S-H**, English A, Kihm KD, Baek SJ. **(2010)** Cell adhesion property affected by cyclooxygenase and lipoxygenase: Opto-electric approach. *Biochem. Biophys. Res. Commun.* 391:1385-1389. PMID: 20026301
32. **Lee S-H**, Krisanapun C, Baek SJ. **(2010)** NSAID-activated gene-1 as a molecular target for capsaicin-induced apoptosis through a novel molecular mechanism involving GSK3 β , C/EBP β , and ATF3. *Carcinogenesis* 31(4):719-728. PMID: 20110283
33. Cekanova M, **Lee S-H**, McEntee MF, Baek SJ. **(2010)** MCC-555-induced NAG-1 expression is mediated in part by KLF4. *Eur. J. Pharmacol.* 637: 30–37. PMID: 20385121
34. **Lee S-H**, Bahn JH, Whitlock NC, Baek SJ. **(2010)** Activating transcription factor 2 (ATF2) controls tolfenamic acid-induced ATF3 expression via MAP kinase pathways. *Oncogene* 29: 5182–5192. PMID: 20581861
35. Zhong Y, Krisanapun C, **Lee S-H**, Nualsanit T, Sams C, Peungvicha P, Baek SJ. **(2010)** Molecular targets of apigenin in colorectal cancer cells: Involvement of p21, NAG-1 and p53. *Eur J Cancer.* 46:3365-3374. PMID: 20709524
36. Kim C-H, Bahn JH, **Lee S-H**, Kim G-Y, Jun S, Lee K, Baek SJ **(2010)** Induction of cell growth arrest by atmospheric non-thermal plasma in colorectal cancer cells. *Journal of Biotechnology* 150:530–538. PMID: 20959125
37. Whitlock NC, Bahn JH, **Lee S-H**, Eling TE, Baek SJ **(2011)** Resveratrol-induced apoptosis is mediated by early growth response-1, krüppel-like factor 4, and activating transcription factor 3. *Cancer Prevention Research* 4:116–127. PMID:21205742
38. Krisanapun C, **Lee S-H**, Peungvicha P, Temsiririrkkul R, Baek SJ. **(2011)** Antidiabetic activities of abutilon indicum (L.) sweet are mediated by enhancement of adipocyte differentiation and activation of the GLUT1 promoter. *Evidence-based Complementary and Alternative Medicine.* 2011:167684. PMID:21603234
39. Margraves C, Kihm K, Yoon SY, Choi CK, **Lee S-H**, Liggett J, Baek SJ. **(2011)** Simultaneous measurements of cytoplasmic viscosity and intracellular vesicle sizes for live human brain cancer cells. *Biotechnology & bioengineering* 108: 2504–2508. PDIM:21520025
40. **Lee S-H***, Richardson RL, Dashwood RH, Baek SJ. **(2012)** Capsaicin represses transcriptional activity of β -catenin in human colorectal cancer cells. *Journal of Nutritional Biochemistry* 23:646-655. PMID:21764279
41. Nualsanit T, Rojanapanthu P, Gritsanapan W, **Lee S-H**, Lawson D and Baek SJ. **(2012)** Damnacanthal, a *Noni* component, exhibits anti-tumorigenic activity in human colorectal cancer cells. *Journal of Nutritional Biochemistry* 23:915-923 PMID:21852088
42. Kang SU, Shin YS, Hwang HS, Baek SJ, **Lee S-H**, Kim C-H. **(2012)** Tolfenamic acid induces apoptosis and growth inhibition in head and neck cancer: Involvement of NAG-1 expression. *PLoS ONE* 2012;7(4):e34988. PMID:22536345 (*Affiliation: UMD*)
43. **Lee S-H**, Min KW, Zhang X, Baek SJ. **(2013)** 3,3'-diindolylmethane induces activating transcription factor 3 (ATF3) via ATF4 in human colorectal cancer cells. *Journal of Nutritional Biochemistry* 24:664-671 PMID:22819556
44. Kim J, Park, Y, **Lee S-H**, Park Y. **(2013)** trans-10,cis-12 conjugated linoleic acid promotes bone

- formation by inhibiting adipogenesis by peroxisome proliferator activated receptor- γ dependent mechanisms and by directly enhancing osteoblastogenesis from bone marrow mesenchymal stem cells. *Journal of Nutritional Biochemistry* 24:672–679. PMID:22832076 (*Affiliation: UMD*)
45. Kang SU, Lee B-S, **Lee S-H**, Baek SJ, Shin YS, Kim C-H. (2013) Expression of NSAID activated gene-1 by EGCG in head and neck cancer: Involvement of ATM-dependent p53 expression. *Journal of Nutritional Biochemistry* 24:986-999 PMID:23017582 (*Affiliation: UMD*)
 46. Jeong JB[#], **Lee S-H***. (2013) Protocatechualdehyde possesses anti-cancer activity through downregulating cyclin D1 and HDAC2 in human colorectal cancer cells. *Biochem. Biophys. Res. Commun* 430:381-386. PMID:23159608 (*Affiliation: UMD*)
 47. Jeong JB[#], Shin YK[#], **Lee S-H***. (2013) Anti-inflammatory activity of patchouli alcohol in RAW264.7 and HT-29 cells. *Food and Chemical Toxicology* 55:229-233 PMID:23348408 (*Affiliation: UMD*)
 48. Jeong JB[#], Choi J[#], Lou Z[#], Jiang X[#], **Lee S-H***. (2013) Patchouli alcohol, essential oil of Pogostemon cablin, exhibits anti-tumorigenic activity in human colorectal cancer cells. *International Immunopharmacology* 16:184-190 PMID:23602914 (*Affiliation: UMD*)
 49. Jeong JB[#], Choi J[#], Baek SJ, **Lee S-H***. (2013) Reactive oxygen species mediate tolfenamic acid-induced apoptosis in human colorectal cancer cells. *Archives of Biochemistry and Biophysics* 537:168-175. PMID:23896514 (*Affiliation: UMD*)
 50. Jeong JB[#], Yang X[#], Clark R[#], Choi J[#], Baek SJ, **Lee S-H***. (2013) A mechanistic study of the proapoptotic effect of tolfenamic acid; involvement of NF- κ B activation. *Carcinogenesis* 34:2350-2360. PMID:23784084 (*Affiliation: UMD*)
 51. Zhang X, **Lee S-H**, Min K-W, McEntee MF, Jeong JB[#], Li Q, Baek SJ. (2013) The involvement of endoplasmic reticulum stress in the suppression of colorectal tumorigenesis by tolfenamic acid. *Cancer Prevention Research* 6(12):1337-1347. PMID:24104354 (*Affiliation: UMD*)
 52. Chrysovergis K, Wang X, Kosak J, **Lee S-H**, Kim JS, Foley JF, Travlos G, Singh S, Baek SJ, Eling TE. (2014) NAG-1/GDF15 prevents obesity by increasing thermogenesis, lipolysis and oxidative metabolism. *International Journal of Obesity* 38(12):1555-1564. PMID:24531647
 53. Chang JW, Kang SU, Choi JW, Shin YS, Baek SJ, **Lee S-H**, Kim C-H. (2014) Tolfenamic acid induces apoptosis and growth inhibition in anaplastic thyroid cancer: Involvement of nonsteroidal anti-inflammatory drug-activated gene-1 expression and intracellular reactive oxygen species generation. *Free Radical Biology and Medicine* 67:115-130. PMID:24216474 (*Affiliation: UMD*)
 54. Choi J[#], Jiang X[#], Jeong JB[#], **Lee S-H***. (2014) Anti-cancer activity of protocatechualdehyde in human breast cancer cells. *Journal of Medicinal Food* 17(8):842-848 PMID:24712725 (*Affiliation: UMD*)
 55. Shao HJ[#], Lou Z[#], Jeong JB, Kim K-J[#], Lee J[#], **Lee S-H***. (2015) Tolfenamic acid suppresses inflammatory stimuli-mediated activation of NF- κ B signaling. *Biomolecules&Therapeutics* 23(1):39-44. PMID:25593642 (*Affiliation: UMD*)
 56. Kim K-J[#], Lee J[#], Park Y, **Lee S-H***. (2015) ATF3 mediates anti-cancer activity of trans-10, cis-12-conjugated linoleic acid in human colon cancer cells. *Biomolecules&Therapeutics* 23(2):134-140. PMID: 25767681 (*Affiliation: UMD*)
 57. Shao HJ[#], Jeong JB[#], Kim K-J[#], **Lee S-H***. (2015) Anti-inflammatory activity of mushroom-derived hispidin through blocking of NF- κ B activation. *Journal of the Science of Food and Agriculture* 95(12):2482-2486. PMID:25355452 (*Affiliation: UMD*)
 58. Clark R[#], Lee J[#], **Lee S-H***. (2015) Synergistic anti-cancer activity of capsaicin and 3,3'-diindolylmethane in human colorectal cancer. *Journal of Agricultural and Food Chemistry* 63(17):4297-4304. PMID:25876645 (*Affiliation: UMD*)

59. Jeong JB[#], Lee J[#], **Lee S-H***. (2015) TCF4 is a molecular target of resveratrol in the prevention of colorectal cancer. *International Journal of Molecular Sciences* 16:10411-10425. PMID:25961950 (*Affiliation: UMD*)
60. Liu J, Yang P, Shi H, Sun X, **Lee S-H**, Yu L. (2015) A novel Gynostemma pentaphyllum saponin and its adipogenesis inhibitory effect through modulating Wnt/ β -catenin pathway and cell cycle in mitotic clonal expansion. *Journal of Functional Foods* 17: 552-562. DOI:10.1016/j.jff.2015.06.014 (*Affiliation: UMD*)
61. Wong J, Kim Y, Park Y, **Lee S-H**, Baek SJ, Park Y (2015) Isomer specificity of conjugated linoleic acid on suppression of osteosarcomas. *J. Nature Sci.* 1: e67. (*Affiliation: UMD*)
62. Jiang X[#], Kim K-J[#], Ha T[#], **Lee S-H***. (2016) Potential dual role of activating transcription factor 3 in colorectal cancer. *Anticancer Research* 36(2):509-516. PMID:26851004 (*Affiliation: UMD*)
63. Clark R[#], **Lee S-H***. (2016) Anticancer properties of capsaicin against human cancer. *Anticancer Research* 36(3):837-844. (*Review*) PMID:26976969 (*Affiliation: UMD*)
64. Min K-W, **Lee S-H**, Baek SJ. (2016) Moonlighting proteins in cancer. *Cancer Letters* 370:108-116. (*Review*). PMID:26499805 (*Affiliation: UMD*)
65. Ha T[#], Lou Z[#], Baek SJ, **Lee S-H***. (2016) Tolfenamic acid downregulates β -catenin in colon cancer. *International Immunopharmacology* 35:287–293. PMID:27089389 (*Affiliation: UMD*)
66. Yang X[#], **Lee S-H***. (2016) Identification of ESE1 as a β -catenin binding protein. *Anticancer Research* 36(6):2697-2704. PMID:27272778 (*Affiliation: UMD*)
67. Shin YS, Kang SU, Park JK, Kim YE, Kim YS, Baek SJ, **Lee S-H**, Kim C-H. (2016) Anti-cancer effect of epigallocatechin-3-gallate (EGCG) in head and neck cancer through repression of transactivation and enhanced degradation of β -catenin. *Phytomedicine* 23:1344-1355. DOI:10.1016/j.phymed.2016.07.005 (*Affiliation: UMD*)
68. Silva G, Marins M, Fachin AL, **Lee S-H**, Baek SJ. (2016) Anti-cancer activity of trans-chalcone in osteosarcoma: Involvement of Sp1 and p53. *Molecular Carcinogenesis* (In press) PMID:26294168 URL: <https://www.ncbi.nlm.nih.gov/pubmed/26294168> (*Affiliation: UMD*)

II.B.2. Other

1. **Lee S-H**, Han H-C, Son YS. (1994) Effect of yeast culture feeding on nitrate metabolism and methemoglobin formation in blood of sheep. Thesis College of Natural Resource, Korea University. 34: 81-85.
2. Jeong YK, **Lee S-H**, Son YS. (1995) Digestibilities and physical properties of alfalfa feeds imported. Thesis College of Natural Resource, Korea University. 34: 79-86.
3. Lee JH, **Lee S-H**, Jeong KH, Shin YM. (1998). A study on the nitrate toxicity in mice. *Journal of Natural Science*. 3(3):39-42.
4. **Lee S-H**, Hossner KL. (2002) Cloning and sequence analysis of cDNA for sheep fatty acid synthase. *Animal Science Research Report 2002*, Colorado State University p137-139.
5. **Lee S-H**, Hossner KL. (2002) Effects of propionate infusion on the expression of lipogenic genes and metabolic hormones in sheep. *Animal Science Research Report 2002*, Colorado State University p141-145.
6. **Lee S-H**, Hossner KL. (2002) Use of ribonuclease protection assay and quantitative PCR for the analysis of adipose tissue marker genes. *Animal Science Research Report 2002*, Colorado State University p151-154.

II.C. Conferences, Workshops, and Talks

II.C.1. Invited Talks

1. 2004 Dec 5 “Conjugated linoleic acid and colorectal cancer prevention”; Invited seminar for interview; Dongkuk University, Seoul, South Korea.
2. 2008 Feb “Chemoprevention of colon cancer”. Invited talk for Comparative & Experimental Medicine Seminar Series, University of Tennessee, Knoxville, Tennessee
3. 2011 Feb 7 “NAG-1 as a molecular target of colorectal cancer prevention”, Invited talk for Comparative & Experimental Medicine Seminar Series; University of Tennessee, Knoxville, Tennessee.
4. 2011 Apr 21 “Cancer Prevention and dietary compounds”, Invited talk at University of Maryland, College Park, Maryland.
5. 2011 May 12 “Cancer Prevention and dietary compounds”, Invited talk at Purdue University, West Lafayette, Indiana.
6. 2013 Apr 16 “Introduction to Cancer”, Invited talk to members of Colleges against cancer in UMCP; University of Maryland, College Park, Maryland.
7. 2013 May 8 “Fighting Cancer with Nutrition”, Invited talk to 2013 AGNR Convocation events; University of Maryland, College Park, Maryland.
8. 2014 Aug 7 “Nonsteroidal anti-inflammatory drug activated gene: Molecular target of capsaicin-induced apoptosis in colorectal cancer”, Invited talk to 2014 US-Korea Conference (UKC); Korean-American Scientists and Engineers Association (KSEA), San Francisco, California.
9. 2015 June 8 “Fighting against cancer with diet”, Invited talk at Seoul National University (Dept of Nutrition), Seoul, Korea
10. 2015 June 9 “Tolfenamic acid and colorectal cancer”, Invited talk at Ajou University (College of Medicine), Suwon, Korea
11. 2015 June 10 “Molecular targets for colorectal cancer”, Invited talk at Rural Development Administration (RDA) (Division of Functional Food), Jeon-ju, Korea
12. 2015 June 11 “Fighting against cancer with phytochemicals”, Invited talk at Kookmin University (Dept. of Nutrition), Seoul, Korea
13. 2015 June 12 “Molecular targets for colorectal cancer”, Invited talk at Korea University (College of Life Science and Biotechnology), Seoul, Korea
14. 2015 June 15 “Cancer prevention with phytochemicals”, Invited talk at Korea University (College of Health Science), Seoul, Korea
15. 2015 July 30 “Activating transcription factor 3: A molecular target for colorectal cancer”, Invited talk to 2015 US-Korea Conference (UKC); Korean-American Scientists and Engineers Association (KSEA), Atlanta, Georgia.
16. 2015 Nov 6 “Dietary Chemicals and Molecular Targets of Colorectal Cancer Prevention” Invited talk to 2015 Korean Nutrition Society (KNS) Annual Conference; Nutrition and Omics: challenges and Breakthrough. Seoul, Korea
17. 2015 Nov 11 “Dietary chemicals and colon cancer”, Invited talk at Yeungnam University (School of Biotechnology), Daegu, Korea

II.C.2. Refereed Abstracts

1. Han H-C, **Lee S-H**, Son Y-S. (1994) Effect of supplementation of Zn and Mn on nitrogen digestibility and retention in rumen. Korean Federation of the Societies in Animal Sciences. Proceedings of '94 Annual Meeting. Page 168 Abstract PB-13.
2. **Lee S-H**, Han H-C, Son Y-S. (1994) Effect of yeast culture on nitrate reduction and oxidation of blood hemoglobin in rumen. Korean Federation of the Societies in Animal Sciences. Proceedings of '94 Annual Meeting. Page 160 Abstract D9416.

3. **Lee S-H**, Kim S-H, Son Y-S. (1995) Effect of bentonite and granite porphyry on ruminal buffering activity and fermentation pattern ruminant animal. Proceedings of '95 Korea-China Animal Nutrition Conference. p29.
4. Son Y-S, **Lee S-H**. (1995) Investigation of TMR feeding effect on dairy cows. Proceedings of 1995 Korean Society of Dairy Science. p37.
5. **Lee S-H**, Hong S-H, Kim K-D, Son Y-S. (1997) Effect of nitrate on thyroid functions of animal. Korean Federation of the Societies in Animal Sciences. Proceedings of the 7th Annual Congress. Page 186 Abstract E9716.
6. Hong S-H, **Lee S-H**, Son Y-S. (1998) Effect of feeding bentonite and granite porphyry on the ruminal buffering activity and fermentation pattern. Proceedings of 8th World Conference on Animal Production. Vol I, p510-511. ISBN: 89-950054-8-393520.
7. **Lee S-H**, Kim K-D, Son Y-S. (1998) A study on antithyroid effects of nitrate in rat thyroid cells. Proceedings of 8th World Conference on Animal Production. Proceedings Vol II, p428-429. ISBN:89-950054-9-193520.
8. Yamaguchi K, **Lee S-H**, Eling TE, Baek SJ. (2005) Phosphatidylinositol 3-kinase/AKT/glycogen synthase kinase-3 β pathway downregulates anti-tumorigenic protein NAG-1 in human colorectal cancer cells. AACR Annual Meeting Proceedings 2005, 65:291.
9. **Lee S-H**, Yamaguchi K, Kim J-S, Eling TE, Park Y, Baek SJ. (2005) Conjugated linoleic acid stimulates an anti-tumorigenic protein NAG-1 in an isomer specific manner. AACR Annual Meeting Proceedings 2005, 65(9 Suppl):3470.
10. Park Y, **Lee S-H**, Storkson JM, Liu W, Pariza MW. (2005) Conjugated Linoleic and Conjugated nonadecadienoic Acids (CLA & CNA) inhibit adipocytic differentiation of mouse bone marrow stem cells. Experimental Biology 2005. FASEB J. 19:A58.
11. Yamaguchi K, **Lee S-H**, Kim J-S, Wimalasena J, Kitajima S, Baek SJ. (2006) Involvement of activating transcription factor 3 and early growth response-1 in LY294002-induced apoptosis in human colorectal cancer cells. AACR Annual Meeting Proceedings 2006, 66(8Suppl):1374.
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16. Margraves CH, Choi CK, Kihm KD, English A, **Lee S-H**, Cekanova M, Baek SJ. (2007) Quantitative imaging of nanoparticles and intracellular vesicle trafficking using total internal reflection fluorescent microscopy (TIRFM). Proceedings of the ASME 2007 Summer Bioengineering Conference (SBC2007-176682). p1-2.
17. **Lee S-H**, Whitlock NC, Choi CK, English AE, Safe SH, Baek SJ. (2008) Tolfenamic Acid Increases EGR-1 Expression through a PKC/ERK Dependent Pathway in Human Colorectal Cancer Cells. Experimental Biology 2008, FASEB J. 22(1):649.3.
18. **Lee S-H**, Krisanapun C, Baek SJ. (2009) Capsaicin activates anti-tumorigenic protein NAG-1 through PKC-, GSK3 β , and C/EBP β -mediated pathway. AACR Annual Meeting Proceedings 2009, 69(9 Suppl):3923.
19. Krisanapun C, **Lee S-H**, Perez-Albela L, Sams C, Peunvicha P, Baek SJ. (2009) Anti-proliferative activity of apigenin in colorectal and breast cancer cells. AACR Annual Meeting Proceedings

- 2009, 69(9 Suppl):961.
20. Park Y, Rhee S, Terk M, Park Y, Kim BH, Han K, **Lee S-H**. (2009) Conjugated linoleic acid improves osteogenesis in murine mesenchymal bone marrow stem cells. Annual Meeting of IFT 2009 and Food Expo. Abstract: 09-A-3156-IFT.
 21. Park Y, Park Y, Terk M, Kim BH, **Lee S-H**. (2009) Influence of conjugated linoleic acid (CLA) on differentiation of murine mesenchymal bone marrow stem cells. Abstract for the Food Science and Technology symposium at the US-Korea Conference on Science, Technology, and Entrepreneurship.
 22. Sun X, Baek SJ, **Lee S-H**, Zemel M. (2009) NAG-1 promotes a lean phenotype by stimulating mitochondrial biogenesis and fatty acid oxidation. The Obesity Society. The 27th Annual Scientific Meeting. Page 57; Abstract 439P.
 23. **Lee S-H**, Krisanapun C, Baek SJ. (2010) NSAID-activated gene-1 as a molecular target for capsaicin-induced apoptosis through a novel molecular mechanism involving GSK3beta, C/EBPbeta, and ATF3. Experimental Biology 2010, FASEB J. 24(1):928.11
 24. Wong JY, Park Y, **Lee S-H**, Baek SJ, Park Y. (2010) Trans-10, cis-12 CLA suppresses osteosarcoma cells via phosphoinositide 3-kinase pathway. Experimental Biology 2011, FASEB J., 24: lb381.
 25. **Lee S-H**, Richardson RL, Baek SJ. (2011) Capsaicin represses transcriptional activity of β -catenin in human colorectal cancer cells. AACR Annual Meeting Proceedings 2011, 71(8 Suppl):4623.
 26. **Lee S-H**, Bahn JH, Whitlock NC, Baek SJ. (2011) Activating transcription factor 2 (ATF2) controls tolfenamic acid-induced ATF3 expression via MAP kinase pathways. AACR Annual Meeting Proceedings 2011, 71(8 Suppl):2035.
 27. Kim J, Park YH, **Lee S-H**, Park Y. (2011) *trans*-10,*cis*-12 conjugated linoleic acid (CLA) inhibits adipogenesis from mouse mesenchymal stem cell via PPAR- γ mediated pathway, Experimental Biology 2011, FASEB J., 25: 775.16.
 28. Park Y, Kim J, **Lee S-H**, Park YH. (2011) Improving bone health using bioactive lipids, the Annual Meeting and Expo for Korean Society of Food Science and Technology, Daegu, Korea.
 29. Jeong JB, Shin YK, **Lee S-H**. (2013) Patchouli alcohol possesses anti-inflammatory activity in RAW264.7 and HT-29 cells. Experimental Biology 2013, FASEB J. 27(1): lb561
 30. Jeong JB, **Lee S-H**. (2013) Anti-cancer activity of protocatechualdehyde through HDAC2-mediated downregulation of cyclin D1 in human colorectal cancer cells. Experimental Biology 2013, FASEB J. 27(1): lb578
 31. Zhang X, **Lee S-H**, Li Q, Baek SJ (2013) Tolfenamic acid suppresses intestinal tumorigenesis through inhibiting cyclin D1 translation. AACR Annual Meeting Proceedings 2013, 73(8 Suppl):LB-181.
 32. Yang XY, Kim KJ, Shao HJ, **Lee S-H**. (2014) ESE-1 binds to beta-catenin and modulates its expression. AACR Annual Meeting Proceedings 2014;74(19 Suppl):4254.
 33. Clark R, **Lee S-H**. (2014) Synergistic anti-cancer effects of capsaicin and 3,3'-diindolylmethane in human colorectal cancer, involvement of NF- κ B and p53. Experimental Biology 2014, FASEB J. 28(1): 644.11.
 34. **Lee S-H**, Clark R, Jeong JB, Krisanapun C, Baek SJ (2014) Nonsteroidal anti-inflammatory drug activated gene (NAG-1): Molecular target of capsaicin-induced apoptosis in colorectal cancer. Korean-American Scientists and Engineers Association (KSEA) Symposium Proceeding.
 35. Jeong JB, Kim K-J, **Lee S-H**. (2015) TCF4 is a molecular target of resveratrol-induced apoptosis in colon cancer. AACR Annual Meeting Proceedings 2015, 75(15 Suppl):4564.
 36. **Lee S-H**, Baek SJ (2015) Activating transcription factor 3: A molecular target for colorectal cancer. Korean-American Scientists and Engineers Association (KSEA) Symposium Proceeding.

37. Yang X, Baek S, **Lee S-H**. (2015) Dietary chemicals and molecular targets of colorectal cancer prevention. Korean Nutrition Society (KNS) Annual Conference Proceeding.
38. **Lee S-H**, Ha T, Lou Z. (2016) Tolfenamic acid downregulates β -catenin in colon cancer. Experimental Biology 2016, FASEB J. 30(1):lb89.

II.C.3. Non-Refereed Posters

1. **Lee S-H**, Hossner K. (2002) Coordinate regulation of ovine adipose tissue gene expression by propionate. Graduate student & Post doc poster competition, Colorado State University.

II.D. Sponsored Research and Programs – Administered by the Office of Research Administration (ORA)

II.D.1. Grants

Extramural grants

1. 2009 Jul-2012 Jun (one year no cost extension); Source: NCI/NIH (R03CA137755); Amount awarded: \$141,170; My role: PI (Co-Investigator: Baek); Title: Combinational anti-cancer effects of capsaicin and 3,3'-diindolylmethane in colorectal cancer
2. 2011 Jul-2016 Jun (one year no cost extension); Source: American Cancer Society (RSG-11-133-01-CCE); Amount awarded: \$720,000 (\$702,297 was transferred to UMD); My role: PI (Co-Investigator: McEntee, Baek); Title: Prevention of colorectal cancer by tolfenamic acid: Mechanistic studies.

Intramural grants

1. 2010 Jun-2011 May; Source: University of Tennessee Obesity Research Center (UTORC); Amount awarded: \$15,000; My role: PI (Co-Investigator: Baek); Title: NSAID-activated gene-1 as a novel anti-obesity target
2. 2010 Jul-2011 Jun; Source: University of Tennessee COE Research Awards; Amount awarded: \$15,000; My role: PI (Co-Investigator: Baek); Title: Mechanistic study of tolfenamic acid-induced anti-cancer activity in human colorectal cancer cells
3. 2016 Jul-2016 Aug; Source: University of Maryland - Research And Scholarship Awards (RASA); Amount awarded: \$9,000; My role: PI; Title: Molecular mechanism of proteasomal degradation of TCF4 by resveratrol in colon cancer
4. 2016 Jan-2017 Jun; Source: UMCP MAES; Amount awarded: \$30,000; My role: PI; Title: NAG-1: a molecular target of capsaicin and 3,3'-diindolylmethane in the prevention of obesity

II.D.2. Contracts

1. 2012 MTA for DNA (David Gladstone Institutes); amount: \$0
2. 2012 MTA for DNA (Johns Hopkins University); amount: \$0
3. 2012 MTA for mice (Monash University); amount: \$0

II.E. Research Fellowships, Prizes and Awards

1. 1999; Korea Science and Engineering Foundation Post-doctoral Fellowship
2. 2000; Korea Science and Engineering Foundation Post-doctoral Fellowship
3. 2008; ASBMB Experimental Biology 2008 Travel Award. San Diego, CA
4. 2009; Award of Excellence, Comparative & Experimental Medicine Symposium at University of Tennessee
5. 2010; Award of Excellence, Comparative & Experimental Medicine and Public Health Research Symposium at University of Tennessee

III. Teaching, Extension, Mentoring, and Advising

III.A. Courses Taught

As a course instructor

1. NFSC620 (Former:NFSC678D) (Diet and Cancer Prevention; 3 credits)
2012 Fall (4 students)
2013 Fall (4 students)
2014 Fall (7 students)
2015 Fall (5 students)
2. NFSC498L/NFSC678L (Diet and Optimal Human Health; 3 credits)
2013 Spr (21 students): 498L (11), 678L (10)
2014 Spr (13 students): 498L (8), 678L (5)
2015 Spr (15 students): 498L (9), 678L (6)
2016 Spr (20 students): 498L (20), 678L (0)
3. NFSC100 (Elements of Nutrition; 3 credits); Course Coordinator/Lead Instructor
2013 Fall (416 students)
2014 Spr (441 students)
2014 Fall (339 students)
2015 Spr (291 students)
2015 Fall (313 students)
2016 Spr (296 students)
4. NFSC100H (Elements of Nutrition; 3 credits); Course Coordinator/Lead Instructor
2013 Fall (11 students)
2014 Fall (8 students)
2015 Fall (5 students)
5. NFSC100 FC (Elements of Nutrition; 3 credits); Course Coordinator/Lead Instructor
2013 Fall (42 students)
2014 Fall (40 students)
2015 Fall (42 students)

As a invited lecturer

1. NFSC410 (Nutritional Genomics)
2012 Dec
2. NFSC220 (Social, Cultural and Environmental Perspectives on Food and Nutrition)
2014 Mar
3. ANSC4890 (Nutritional Aspects of Metabolic Disease)
2013-2016 Apr
4. ANSC688M (Advanced Gut Microbiome and Its Roles in Health and Disease)
2014 Oct

III.B. Teaching Innovations

III.B.1. Course or Curriculum Development

1. 2012 Fall; Developed curriculum and teaching materials for NFSC678D and changed to NFSC620 (hard number) through Vice President's Advisory Committee (VPAC)
2. 2013 Spr; Developed new course (NFSC498L/678L) "Diet and Optimal Human Health"

III.C. Advising: Research or Clinical

III.C.1. Undergraduate

1. NFSC498A (Individual Study; 1-3 credits)
2013 Fall (2 students); Hayat, Lou
2014 Fall (4 students); Eggleston, McAllister, Whelan, Wu
2015 Spr (2 students); McAllister, Maino
2015 Fall (3 students); McAllister, Nwosu, Rich
2016 Spr (2 students); Jung, Rios
2016 Sum(1 student); Velasquez

III.C.2. Master's

1. NFSC799 (Master's Thesis Research; 1-6 credits)
2013 Spr (1 student); Clark
2013 Fall (2 students); Clark, Jiang
2014 Spr (1 student); Clark
2014 Fall (3 students); Jiang, Leahy, Lou
2015 Spr (3 students); Jiang, Leahy, Lou
2015 Fall (2 students); Jiang, Leahy
2016 Spr (2 students); Leahy, Lou
2. Advised as a committee chair

<i>Name</i>	<i>Academic Year</i>	<i>Placement</i>
Ruth Clark	2012 Aug - 2014 May	R.D. at Option Care (Walgreens), MD
Xiaojing Jiang	2013 Aug - 2015 Dec	Research Associate at Jecho Laboratories, MD
Zhiyuan Lou	2014 Aug - 2016 May	Ph.D. program at UMD
Elizabeth Leahy	2014 Aug - present	
Yanrui Xu	2016 Aug - present	
3. Advised as a committee member

<i>Name</i>	<i>Academic Year</i>
Tiffany Tzeng	Graduated in 2012
Jallah Rouse	Graduated in 2013
Cindy Feng	Graduated in 2014
Eric Campbell	Graduated in 2014
Huilin Cao	Graduated in 2015
Shuai Tang	Graduated in 2015
Yuqing Ying	Graduated in 2016
Kathleen Sanders	Graduated in 2016
Chanmi Kim	2015 -
Xun Yang	2016 -

III.C.3. Doctoral

1. NFSC898 (Pre-Candidacy Research; 1-8 credits)
2016 Spr (1 student); Lee
2. Advised as a committee chair

<i>Name</i>	<i>Academic Year</i>
Jihye Lee	2014 Aug -
Zhiyuan Lou	2016 Aug -
3. Advised as committee member

<i>Name</i>	<i>Academic Year</i>
Tsung-Yu Wu	Graduated in 2013

Jing Hu	Graduated in 2014
Maryam Ganjavi	Graduated in 2014
Haiqiu Huang	Graduated in 2014
Changhui Zhao	Graduated in 2015
Haiwen Li	Graduated in 2015
Lu Yu	2015 -
Jaime Gahche	2016 -

III.C.4. Post-doctoral

<i>Name</i>	<i>Year</i>	<i>Placement</i>
Dr. Jin Boo Jeong	2012 - 2013	Assistant Professor at Andong Univ., Korea
Dr. Xuyu Yang	2012 - 2014	Staff Scientist at NICHD/NIH, USA
Dr. Kui-Jin Kim	2013 - 2014	Research Associate at Cha Univ., Korea
Dr. Taekyu Ha	2014 - 2015	Post-doctorate at NCI/NIH, USA

III.C.5. Other Directed Research (e.g. K-12 Interactions)

1. Visiting Scholars

<i>Name</i>	<i>Year</i>	<i>Placement</i>
Dr. Hongjun Shao	2013 - 2014	Associate Professor at Shaanxi Normal Univ., China
Dr. Xin Geng	2013 - 2014	Qingdao Agricultural University
Ms. Jinyeong Lim	2015	Research Associate at National Cancer Center, Korea

2. Internship students

<i>Name</i>	<i>Year</i>
Yong Kyu Shin	2012
Ji Eun Choi	2012 - 2013
Lancelot Won	2014
Christopher Yeh	2015

III.D. Advising: Other than Directed Research

III.D.1. Undergraduate

2012 Fall	7 students
2013 Spr	7 students
2013 Fall	34 students
2014 Spr	30 students
2014 Fall	30 students
2015 Spr	30 students
2015 Fall	30 students
2016 Spr	23 students

III.E. Contribution to Learning Outcomes Assessment

1. 2014 Fall Reported Learning Outcomes Assessment Summary for NFSC100
2. 2015 Fall Reported Learning Outcomes Assessment Summary for NFSC100

III.F. Other Teaching Activities

1. Lecturer at Sahmyook University (1997 - 1999)
Taught the courses "Advanced Nutrition", "Biochemistry", "Nutritional Assessment/Experiment", "Animal nutrition", "Food Science"
2. Lecturer at Korea University (1998 - 1999)
Taught the courses "Ruminant nutrition and digestive physiology", "Dairy Science"

IV. Service and Outreach

IV.A. Editorships, Editorial Boards, and Reviewing Activities

IV.A.1. Editorial Boards

1. Journal of Animal Science and Technology (Member-editorial board) (2016-present)
<https://janimscitechnol.biomedcentral.com/>

IV.A.2. Reviewing Activities for Journals and Presses

Year Journals

- 2009 Biochimica et Biophysica Acta (BBA), Molecules, Food Science and Biotechnology (4), Osteoporosis International
- 2010 Journal of Medicinal Food (JMF), Critical Reviews in Food Science and Nutrition, International Journal of Cancer (IJC), Cancer Letters, Food Science and Biotechnology (2)
- 2011 Food Science and Biotechnology, NeuroSignals, Yonsei Medical Journal, Food and Chemical Toxicology
- 2012 Journal of Nutritional Biochemistry, Cancer Letters (2), Food Science and Biotechnology (2), International Journal of Cancer, Cancer Research, Food Chemistry
- 2013 Food and Chemical Toxicology (2), Journal of Food Processing and Preservation, Yonsei Medical Journal.
- 2014 BMC Molecular Biology, Journal of Biochemical and Molecular Toxicology, Food Chemistry, Yonsei Medical Journal, Anti-Cancer Drugs, Nutrition and Cancer
- 2015 Journal of Endocrinology, Journal of Food Science, Cell Death and Disease, Oncotarget, Research in Veterinary Science, Lipids, Journal of Food Biochemistry
- 2016 Journal of Medicinal Food, BioFactors, Journal of Functional Foods, Biomedicine & Pharmacotherapy, OncoTargets and Therapy, Journal of Nutrigenetics & Nutrigenomics, Journal of Cellular Biochemistry, Journal of Cancer Prevention

IV.B. Committees, Professional & Campus Service

IV.B.1. Campus Service – Department

1. Shorb Lecture Committee
2012 - 2014 (member), 2015 (Chair)
2. Annual Research Day Committee
2013 (member), 2014 (Chair)
3. Teaching Assistantship Committee
2013 - present (member)
4. Admission (Graduate program) Committee
2013 - present (member)
5. Nutrition Faculty Search Committee
2013 - 2014 (member)
6. Food Science Faculty Search Committee
2013 - 2014 (member)
7. Departmental Review Committee
2016

IV.B.2. Campus Service – Other

1. Senior Faculty Specialist Search Committee

- 2016
2. AGNR Open House Day poster judge
2011 - 2012
3. Marshal for spring commencement
2012, 2013, 2015
4. ANSC Annual Symposium poster/oral presentation judge
2013, 2014, 2016

IV.B.3. Leadership Roles in Meetings and Conferences

1. 2014 Aug 7; Co-chair at FAN-1 Session (Molecular and Biochemical Nutrition) at 2014 US-Korea Conference (UKC 2014); Korean-American Scientists and Engineers Association (KSEA), San Francisco, California.
2. 2015 Jul 30; Co-chair at FAN-1 Session (Experimental and Molecular Nutrition) at 2015 US-Korea Conference (UKC 2015); Korean-American Scientists and Engineers Association (KSEA), Atlanta, Georgia.

IV.B.4. Other Non-University Committees, Memberships, Panels, etc.

1. 2013 Sep; USDA ARS PSA (Program Support Assistant) Search committee, 2013

IV.C. External Service and Consulting

IV.C.1. Community Engagements, Local, State, National, International

1. 2015 Feb; National 4-H Healthy Living Forum (Title: Diet and human health; 150 high school students)

IV.C.2. International Activities

1. 2015 Sep-Nov; Supervised the validation project by OECD (Organization for Economic Cooperation and Development) and KMFDS (Korean Ministry of Food and Drug Safety); Project title: Validation plan for the transactivation assay for detection of compounds with (anti)-androgenic potential using 22Rv1/MMTV cells.