CMU Faculty Profile

Chong-Kuei Lii

Professor, Department of Nutrition, College of Biopharmaceutical and Food Sciences

Ph.D., Iowa State University, 1992

Phone: (886)-4-22053366 ext7519
Email: cklii@mail.cmu.edu.tw
URL: http://webap.cmu.edu.tw/TchEportfolio/journal_1/cklii

Research Interests: Nutritional Biochemistry, Nutritional Toxicology

Appointments:
1992-1996: Associate Professor, Department of Nutrition, Chung Shan Medical University
1996-2008: Professor, Department of Nutrition, Chung Shan Medical University
2008-present: Professor, Department of Nutrition, China Medical University

Representative Publications:

Andrographolide inhibits adipogenesis of mouse 3T3-L1 cells by suppressing C/EBPβ expression and activation. Chen CC, Chuang WT, Lin AH, Tsai CW, Huang CS, Chen YT, Chen HW, Lii CK. Toxicol Appl Pharmacol. 2016; 307:115-122.

Docosahexaenoic acid inhibits 12-*O*-tetradecanoylphorbol-13-acetate-induced fascin-1-dependent breast cancer cell migration by suppressing the PKCδ- and Wnt-1/β-catenin-mediated pathways. Lii CK, JW, Chen JJ, Chen HW, Liu KL, Yeh SL, Wang TS, Liu SH, Tsai CH, Li CC**.** Oncotarget 2016; 7:25162-25179.

Shikonin inhibits oxidized LDL-induced monocyte adhesion by suppressing NFκB activation via up-regulation of PI3K/Akt/Nrf2-dependent antioxidation in EA.hy926 endothelial cells. Huang CS, Lin AH, Yang TC, Liu KL, Chen HW, Lii CK. Biochem Pharmacol. 2015; 93:352-61.

Bioavailability of andrographolide and protection against carbon tetrachloride-induced oxidative damage in rats. Chen HW, Huang CS, Li CC, Lin AH, Huang YJ, Wang TS, Yao HT, Lii CK. Toxicol Appl Pharmacol. 2014 Oct 1;280(1):1-9.

Isothiocyanates protect against oxidized LDL-induced endothelial dysfunction by upregulating Nrf2-dependent antioxidation and suppressing NFκB activation. Huang CS, Lin AH, Liu CT, Tsai CW, Chang IS, Chen HW, Lii CK. Mol Nutr Food Res. 2013; 57:1918-30.

CMU Faculty Profile

HSIEN-TSUNG YAO

Associate Professor, Department of Nutrition

Ph.D., National Taiwan Ocean University (Taiwan), 2003

Phone: (886)-4-22053366 ext7526
Email: htyao@mail.cmu.edu.tw
URL: http://cmuntt.cmu.edu.tw/english/faculty.html#1

大頭照片

Research Interests: Food component and detoxification, Food and Drug Analysis, Functional assessment of health food

Academic Distinctions:
Assistant Professor, CMU (2008)
Associate Professor, CMU (2012)

Appointments:
2004-2008: Postdoctoral fellow: National Health Research Institute
2008-2012: Assistant Professor, Department of Nutrition, CMU
2012-present: Associate Professor: Department of Nutrition, CMU

Research Interests:
The research themes in my lab aim to analyze functional components in foods or herbal medicines and evaluate their chemopreventive effects or other functional activities.
Several areas of the research are actively studied in my lab.

Representative Publications:

Chen HW, Huang CS, Li CC, Lin AH, Huang YJ, Wang TS, **Yao HT***, Lii CK* (2014). Bioavailability of andrographolide and protection against carbon tetrachloride-induced oxidative damage in rats. **Toxicology and Applied Pharmacology.** 280:1-9. www.ncbi.nlm.nih.gov/pubmed/25110055

Yao HT*, Hsu YR, Lii CK, Lin AH, Chang KH, Yang HT. (2014) Effect of commercially available green and black tea beverages on drug-metabolizing enzymes and oxidative stress in Wistar rats. **Food and Chemical Toxicology.** 70:120-127 http://www.sciencedirect.com/science/article/pii/S0278691514002257

Yao HT*, Luo MN, Li CC. (2015) Chitosan oligosaccharides reduces acetaminophen-induced hepatotoxicity by suppressing CYP-mediated bioactivation. **Journal of Functional Foods.** 12: 262-270. http://www.sciencedirect.com/science/article/pii/S1756464614003648

Liu YT, Chen YH, Uramaru N, Lin AH, Yang HT, Lii CK, **Yao HT*** (2016) Soy isoflavones reduce acetaminophen-induced liver injury by inhibiting cytochrome P-450-mediated bioactivation and glutathione depletion and increasing urinary drug excretion in rats. **Journal of Functional Foods.** 26:135-143. http://www.sciencedirect.com/science/article/pii/S1756464616301906

CMU Faculty Profile

Feng-Yao, Vincent, Tang

Dean of Student Affairs
Professor, Department of Nutrition, College of Biopharmaceutical and Food Sciences

Ph.D., Tufts University
MS, Harvard University

Phone: (886)-4-22053366 ext7513
Email: vincenttang@mail.cmu.edu.tw
URL:

Research Interests: Tumor Angiogenesis, Neovasculogenesis, Cancer and Stem Cell Signaling

Academic Distinctions:
Outstanding Research Award, Nutrition Society of Taiwan, Taiwan (2015)
Young Investigator Award, FASEB, USA (1999)

Appointments:
2000-2003: Postdoctoral fellow: Norris Cancer Center, CA, USA
2003-2006: Assistant Professor: Department of Nutrition, Fu-Jen University
2006-2008: Assistant Professor: Department of Nutrition, CMU
2006-2008: Director of the Learning Center, CMU
2008-2012: Associate Professor: Department of Nutrition, CMU
2012-present: Professor: Department of Nutrition, CMU
2014-2015: Associate Director: Teaching Excellence Office, CMU
2016-present: Dean of Student Affairs, CMU

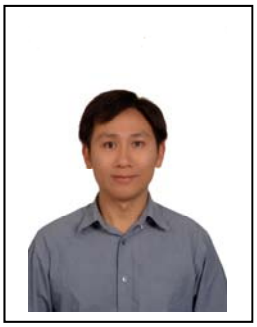
Research Interests:
Dr. Tang's research teams focus on two major fields: First, the preventive and therapeutic applications in cancer research. We are interested in the molecular mechanisms of tumor angiogenesis. We also study the preventive effects of nutrients and therapeutic applications of small molecule drugs in blocking tumor development. Second, the applicable intervention of nutrients in stem cell research. Dr. Tang's group also study the function of progenitor cells and mesenchymal stem cells in different aspects.

Representative Publications:
Dual inhibition of key proliferation signaling pathways in triple negative breast cancer cells by a novel derivative of Taiwanin A.. Yueh-Hsiung Kuo , En-Pei Isabel Chiang , Che-Yi Chao , Raymond L. Rodriguez , Pei-Yu Chou , Shu-Yao Tsai , Man-Hui Pai and Feng-Yao Tang* . MOLECULAR CANCER THERAPEUTICS **2017**, 16(3): 480-493

N-3 polyunsaturated fatty acids alleviate high glucose-mediated dysfunction of endothelial progenitor cells and prevent ischemic injuries both in vitro and in vivo Shao-Chih Chiu, Che-Yi Chao , En-Pei Isabel Chiang , Jia-Ning Syu, Raymond L. Rodriguez , and Feng-Yao Tang *.. JOURNAL OF NUTRITIONAL BIOCHEMISTRY **2017,** 42:172-181.

CMU Faculty Profile

KUO-CHIANG HSU



Professor, Department of Nutrition, College of Biopharmaceutical and Food Science

Ph.D., National Chung Hsing University (Taiwan), 2002

Phone: (886)-4-22053366 ext7522
Email: kchsu@mail.cmu.edu.tw

Research Interests: Bioactive Peptides, Bioinformatics, Food Safety, Food Chemistry

Academic Distinctions:

Appointments:

2004-2007: Assistant Professor: Department of Health Diet and Restaurant Management, Chung Shan Medical University
2007-2008: Associate Professor: Department of Health Diet and Restaurant Management, Chung Shan Medical University
2008-2011: Associate Professor: Department of Nutrition, CMU
2010-2011: Visiting Associate Professor: Food, Nutrition and Health Program, Faculty of Land and Food System, The University of British Columbia, Canada
2011-present: Professor: Department of Nutrition, CMU
2014-present: Professor: Department of Health and Nutrition Biotechnology, Asia University
2014-present: Director: Food Safety and Inspection Center, Asia University
2016-present: Vice Dean: College of Medical and Health Science, Asia University

Research Interests:

The research themes in my lab aim to discovery bioactive peptides from food protein by in vitro, in vivo and in silico approaches to investigate their physiological properties, such as antidiabetes, antioxidation, antihypertension, antiaging, etc. We also focus on food safety with public health claim by inspection, risk assessment and total diet study (TDS). Several areas of the research are actively studied in my lab.

Representative Publications:

Protein hydrolysates from tuna cooking juice inhibit cell growth and induce apoptosis of human breast cancer cell line MCF-7. Hung, C.C., Yang, Y.H., Kuo, P.F., **Hsu, K.C.*** 2014, Nov. *Journal of Function Foods*, **11:**563-570.

Porcine skin gelatin hydrolysate as a dipeptidyl peptidase IV inhibitor improves glycemic control in streptozotocin-induced diabetic rats. Huang, S.L., Hung, C.C., Jao, C.L., Tung, Y.S., and **Hsu, K.C.*** 2014, Nov. *Journal of Functional Foods,* **11:**235-242.

Fish skin gelatin hydrolysates as dipeptidyl peptidase IV inhibitors and glucagon-like peptide-1 stimulators improve glycaemic control in diabetic rats: a comparison between warm- and cold-water fish. Wang, T.Y., Hsieh, C.H., Hung, C.C., Jao, C.L., Chen, M.C., and **Hsu, K.C.*** 2015, Dec. *Journal of Functional Foods*, **19:**330-340.

Isolation of prolyl endopeptidase inhibitory peptides from a sodium caseinate hydrolysate. Hsieh, C.H., Wang, T.Y., Hung, C.C., Hsieh, Y.L., and **Hsu, K.C.*** 2016, Jan. *Food & Function*, **7(1):**565-573.

In silico, *in vitro* and *in vivo* analyses of dipeptidyl peptidase IV inhibitory activity and antidiabetic effect of a sodium caseinate hydrolysate. Hsieh, C.H., Wang, T.Y., Hung, C.C., Jao, C.L., Hsieh, Y.L., Wu, S.X., and **Hsu, K.C.*** 2016, Feb. *Food & Function*, **7(2):**1122-1128.

CMU Faculty Profile

Haw-Wen Chen

Professor, Department of Nutrition, College of Biopharmaceutical and Food Sciences

Ph.D., Iowa State University, 1992

Phone: (886)-4-22053366 ext7520
Email: chenhw@mail.cmu.edu.tw
URL: http://webap.cmu.edu.tw/TchEportfolio/index_1/chenhw

Research Interests: Nutritional Biochemistry, Clinical Nutrition, Nutritional Toxicology

Appointments:
1992-1996: Associate Professor, Department of Nutrition, Chung Shan Medical University
1996-2008: Professor, Department of Nutrition, Chung Shan Medical University
2008-present: Professor, Department of Nutrition, China Medical University

Representative Publications:

Andrographolide inhibits hypoxia-induced HIF-1α-driven endothelin 1 secretion by activating Nrf2/HO-1 and promoting the expression of prolyl hydroxylases 2/3 in human endothelial cells. Lin HC, Su SL, Lu CY, Lin AH, Lin WC, Liu CS, Yang YC, Wang HM, Lii CK, Chen HW. Environ Toxicol. 2017 Mar;32(3):918-930.

Docosahexaenoic acid inhibits inflammation via free fatty acid receptor FFA4, disruption of TAB2 interaction with TAK1/TAB1 and downregulation of ERK-dependent Egr-1 expression in EA.hy926 cells. Liu KL, Yang YC, Yao HT, Chia TW, Lu CY, Li CC, Tsai HJ, Lii CK, Chen HW. Mol Nutr Food Res. 2016 Feb;60(2):430-43.

Bioavailability of andrographolide and protection against carbon tetrachloride-induced oxidative damage in rats. Chen HW, Huang CS, Li CC, Lin AH, Huang YJ, Wang TS, Yao HT, Lii CK. Toxicol Appl Pharmacol. 2014 Oct 1;280(1):1-9.

Andrographolide inhibits TNFα-induced ICAM-1 expression via suppression of NADPH oxidase activation and induction of HO-1 and GCLM expression through the PI3K/Akt/Nrf2 and PI3K/Akt/AP-1 pathways in human endothelial cells. Lu CY, Yang YC, Li CC, Liu KL, Lii CK, Chen HW. Biochem Pharmacol. 2014 Sep 1;91(1):40-50.

CMU Faculty Profile

CHUN-YIN HUANG

Associate Professor, Department of Nutrition, College of Biopharmaceutical and Food Sciences

Ph.D., Tufts University (USA), 2002

Phone: (886)-4-22053366 ext7515
Email: chuang@mail.cmu.edu.tw
URL: http://webap.cmu.edu.tw/TchEportfolio/index_1/chuang

Research Interests: Adipocyte Differentiation, Cancer and Metabolism

Academic Distinctions:
Distinguished Teaching Professor, College of Health Care, CMU (2015)
Distinguished Teaching Professor, College of Biopharmaceutical and Food Sciences, CMU (2026)

Appointments:
2002-2003: Postdoctoral fellow: Department of Surgery and Genetics, Stanford University, USA
2003-2006: Postdoctoral fellow: Molecular Oncology Research Institute, Tufts-NEMC, Boston MA USA
2006-2012: Assistant Professor: Department of Nutrition, CMU
2012-present: Associate Professor: Department of Nutrition, CMU

Research Interests:
The research themes in my lab aim to decipher the roles of transcription factor HBP1and FOXO1 in the regulation of cancer biology, cancer metabolism, and adipocyte differentiation. We have combined the biochemical approaches and xenograft mouse model to address the relevant anti-cancer regulation of nutrients and phytochemicals.

Representative Publications:

Transcription factor **HBP1** is a direct anti-cancer target of transcription factor **FOXO1** in invasive oral cancer. Chan CY, Huang SY, Sheu JJ, Roth MM, Chou IT, Lien CH, Lee MF, Huang CY. Oncotarget. 2017 Jan 14

MED28 Regulates Epithelial-Mesenchymal Transition Through NFκB in Human Breast Cancer Cells. Huang CY, Hsieh NT, Li CI, Weng YT, Liu HS, Lee MF. J Cell Physiol. 2017 Jun;232(6):1337-1345.

Quercetin suppresses cellular **migration** and invasion in human head and neck squamous cell carcinoma (HNSCC).Chan CY, Lien CH, Lee MF, Huang CY. Biomedicine (Taipei). **2016** Jun;6(3):15

Quercetin induces growth arrest through activation of **FOXO1** transcription factor in EGFR-overexpressing oral cancer cells. Huang CY, Chan CY, Chou IT, Lien CH, Hung HC, Lee MF. J Nutr Biochem. 2013 Sep;24(9):1596-603.

N-acetylcysteine (NAC) inhibits cell growth by mediating the EGFR/Akt/HMG box-containing protein 1 (**HBP1**) signaling pathway in invasive oral cancer. Lee MF, Chan CY, Hung HC, Chou IT, Yee AS, Huang CY. Oral Oncol. 2013 Feb;49(2):129-35

CMU Faculty Profile

HUI-TING, YANG

Associate Professor, Institution of Nutrition, College of Biophamaceutical and Food Sciences

Ph.D., Taipei Medical University (Taiwan), 2008

Phone: (886)-4-22053366 ext7525
Email: lulu0319@mail.cmu.edu.tw

Research Interests: Nutritional biochemistry, cloud application in health promotion, Nutrition application in psychological disorder, health food development

Appointments:
2008-2013: Assistant Professor: Institute of Nutrition, CMU
2013-present: Associate Professor: Institute of Nutrition, CMU
2014 ~ to present: Director of biotechnology incubation center, office of academic –industry collaboration

Research Interests:
1. Study the instrument or software in Health promotion.
2. Cloud system application

So far, our lab owned two website and one APP (android and ios system) used for personal nutrition consultation.

Representative Publications:

Yang HT, Wang RY, Huang SY, Huang CL, Su KP. Genetic polymorphisms of FADS1, FADS2, and FADS3 and fatty acid profiles in subjects received methadone maintenance therapy. Prostaglandins Leukot Essent Fatty Acids. 2017 Jan 25. pii: S0952-3278(16)30182-X.

Hung YC, Yang HT, Yin MC. Asiatic acid and maslinic acid protected heart via anti-glycative and anti-coagulatory activities in diabetic mice. Food Funct. 2015 Sep;6(9):2967-74.

Chiu WC, Yang HH, Chiang SC, Chou YX, Yang HT. Auricularia polytricha aqueous extract supplementation decreases hepatic lipid accumulation and improves antioxidative status in animal model of nonalcoholic fatty liver. Biomedicine (Taipei). 2014;4:12.

Chang JP, Chang SS, Yang HT, Palani M, Chen CP, Su KP.Polyunsaturated fatty acids (PUFAs) levels in patients with cardiovascular diseases (CVDs) with and without depression. Brain Behav Immun. 2015 Feb;44:28-31.

Yan SL, Yang HT, Lee HL, Yin MC.Protective effects of maslinic acid against alcohol-induced acute liver injury in mice. Food Chem Toxicol. 2014 Dec;74:149-55..

CMU Faculty Profile

PEI-MIN CHAO

Professor & Chair
Department of Nutrition

Ph.D., Division of Nutritional Biochemistry, Department of Agricultural Chemistry, National Taiwan University (Taiwan), 2002

Phone: (886)-4-22053366 ext7509
Email: pmchao@mail.cmu.edu.tw
URL: http://cmuntt.cmu.edu.tw/english/faculty/pmchao.html

Research Interests: Obesity and metabolic diseases, Nutrigenomics, Food safety in frying oil,

Academic Distinctions:
Distinguished Teaching Professor, College of Health Care, CMU (2007)
Outstanding Nutrition Academic Research Award, Nutrition Society of Taiwan (2013)

Appointments:
1991-2002: Instructor, Department of Nutrition, China Medical University
2002-2010: Associate Professor, Department of Nutrition, China Medical University
2007-2008: Postdoctoral Researcher, Pennington Biomedical Research Center, Baton Rouge, LA, USA
2008-present: Professor, Department of Nutrition, China Medical University
2013-present: Chair of Department of Nutrition, China Medical University

Research Interests:
Dr. Pei-Min Chao's research focuses on 3 areas: (1) The development of functional foods with potentials in treating metabolic syndrome; (2) The anti-obesity effect of bitter melon seed oil; and (3) Impacts of dietary oxidized frying oil on nutrient metabolism, teratogenesis, and hormone disruption. Recently, she started exploring nutrition issues using Systematic Review and Meta-analysis approach.

Representative Publications:

Roles of peroxisome proliferator-activated receptor in bitter melon seed oil corrected lipid disorders and conversion of α-eleostearic acid into rumenic acid in C57BL/6J mice. Chang YY, Su HM, Chen SH, Hsieh WT, Chyuan JH, **Chao PM***. Nutrients 2016, 8: 805.

Hypolipidaemic function of Hsian-tsao tea (*Mesona procumbens* Hemsl.):Working mechanisms and active components. Huang HC, Chuang SH, Wu YC, **Chao PM*** . J Funct Foods 2016, 26: 217–227.

A conjugated fatty acid present at high levels in bitter melon seed favorably affects lipid metabolism in hepatocytes by increasing NAD+/NADH ratio and activating PPARalpha, AMPK, and SIRT1 signaling pathway. Chen GC, Su HM, Lin YS, Tsou PY, Chyuan JH, **Chao PM*** J Nutr Biochem 2016, 33: 28-35.

Tomato juice supplementation in young women reduces inflammatory adipokine levels independently of body fat reduction. Li YF, Chang YY, Huang HC, Wu YC, Yang MD, **Chao PM***. Nutrition 2015, 31:691-696.

Oxidized frying oil and its polar fraction fed to pregnant mice are teratogenic and alter mRNA expressions of vitamin A metabolism genes in the liver of dams and their fetuses. Huang CF, Lin YS, Chiang ZC, Lu SY, Kuo YH, Chang Sunny LY, **Chao PM*.** J Nutr Biochem 2014, 25: 549-556.

Altered White Adipose Tissue Protein Profile in C57BL/6J Mice Displaying Delipidative, Inflammatory, and Browning Characteristics after Bitter Melon Seed Oil Treatment. Hsieh CH, Chen GC, Chen PH, Wu TF, **Chao PM***. PLoS one 2013, 8(9): e72917.

CMU Faculty Profile

Chia-Wen Tsai

Associate Professor, Department of Nutrition, China Medical University

Phone: (886)-4-22053366 ext.7521
Email: cwtsai@mail.cmu.edu.tw
URL: http://cmuntt.cmu.edu.tw/english/faculty.html#1

Research Interests: Nutrition and neurodegenerative diseases, Nutrition and metabolic syndrome

Academic Distinctions:

Associate Professor, Department of Nutrition, China Medical University (2012)

Appointments:

2008-2012: Assistant Professor, Department of Nutrition, China Medical University
2012-present: Associate Professor, Department of Nutrition, China Medical University

Representative Publications:

1. Modulation of ARTS and XIAP by parkin is associated with carnosic acid protects SH-SY5Y cells against 6-hydroxydopamine-induced apoptosis，Ru-Huei Fu、Li-Chun Huang、Chia-Yuan Lin、Chia-Wen Tsai*，MOLECULAR NEUROBIOLOGY，2017.
2. Carnosic acid protects SH-SY5Y cells against 6-hydroxydopamine-induced cell death through upregulation of parkin pathway. Chia-Yuan Lin、Chia-Wen Tsai、Chia-Wen Tsai*，NEUROPHARMACOLOGY，2016，110:109-117.
3. Carnosic acid attenuates 6-hydroxy-dopamine-induced neurotoxicity in SH-SY5Y cells by inducing autophagy through an enhanced interaction of Parkin and Beclin 1. Chia-Yuan Lin、Chia-Wen Tsai*，MOLECULAR NEUROBIOLOGY，2016.
4. Induction of the pi class of glutathione *S*-transferase by carnosic acid in rat Clone 9 cells via the p38/Nrf2 pathway. Lin, Chia-Yuan、Chi-Rei Wu、Shu-Wei Chang、Yu-Jung Wang、Jia-Jiuan Wu、Chia-Wen Tsai*，Food & Function，2015，6: 1936-1943.
5. Carnosic acid protects against 6-hydroxydopamine-induced neurotoxicity in in vivo and in vitro model of Parkinson's disease: Involvement of antioxidative enzymes induction. Chi-Rei Wu、Chia-Wen Tsai、Shu-Wei Chang、Chia-Yuan Lin、Li-Chun Huang、Chia-Wen Tsai*，CHEMICO-BIOLOGICAL INTERACTIONS，2015 ，225:40-46.
6. The mechanisms of carnosic acid attenuates tumor necrosis factor-α-mediated inflammation and insulin resistance in 3T3-L1 adipocytes. Chia-Wen Tsai*、Kai-Li Liu、Yu-Ru Lin、Wen-Cheng Kuo，MOLECULAR NUTRITION & FOOD RESEARCH，2014 ，58:654-664