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Major Field	Nutritional Biology, Gut Microbiota, Systems Genetics

Educational Background

2006-2011: B.S., Bioengineering & Biotechnology / B.B.A., Yonsei University, Seoul, Republic of Korea
2011-2013: M.S., Life Science & Biotechnology, Yonsei University, Seoul, Republic of Korea
2017-2021: Ph.D., Nutritional Biology, University of California, Davis, USA

Professional Experience

2011-2012: Research Assistant, Department of Biotechnology, Yonsei University, Seoul, Republic of Korea
2013-2017: Research Scientist, KIST, Seoul, Republic of Korea
2017-2021: Graduate Student Researcher, USDA Western Human Nutrition Research Center, USA
2022-Present: Senior Research Scientist, Center for Natural Product Efficacy Optimization, KIST, Gangneung, Republic of Korea
2022-Present: Assistant Professor, Division of Bio-Medical Science & Technology, UST (KIST School), Seoul, Republic of Korea
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Main Scientific Publications

1. Hong, S., *Nguyen, B. N.*, Min, H.T., Youn, H.Y., Cha, K.H., Park, Y.T., Lee, C., Yoo, G.H., *Kim, M*. (2024) Host-specific effects of Eubacterium species on Rg3-mediated osteosarcopenia treatment in a genetically diverse mouse population. Microbiome 12, 251. (*co-corresponding author, IF: 13.8, JCR: 4.7%)
2. Nguyen, B. N., Hong, S., Choi, S., Lee, C., *Yoo, G.H.*, Kim, M*. (2024) Dexamethasone-induced muscle atrophy and bone loss in six genetically diverse collaborative cross founder strains demonstrate phenotypic variability by Rg3 treatment. J. Ginseng Res. 48(3):310-322. (*co-corresponding author, IF: 6.8, JCR: 1.2%)
3. Nguyen, B. N., Le, T.T., Kang, S.W., Cha, K.H., Choi, S., Youn, H.Y., Jung, S.H.*, Kim, M *. (2024) Cornflower Extract and Its Active Components Alleviate Dexamethasone-Induced Muscle Wasting by Targeting Cannabinoid Receptors and Modulating Gut Microbiota. Nutrients 16(8):1130. (*co-corresponding author, IF: 6.71, JCR: 16.1%)

Main Scientific Publications

4. Erdenebileg, S.*, Kim, M. *, Nam, Y., Cha, K.H., Nho, C.W. (2024) Artemisia argyi ethanol extract ameliorates nonalcoholic steatohepatitis-induced liver fibrosis by modulating gut microbiota and hepatic signaling. J. Ethnopharmacol. 333, 118415. (*co-first author, IF: 5.4, JCR: 11.9%)
5. Ko, H., Bekele, T., Le, T.T., Kim, S., Cha, K.H., Youn, H.Y., Jung, S.H.*, Kim, M *. (2024) Identification of components from Aralia elata and their effects on muscle health and gut microbiota. J. Funct. Foods 121:106384. (*co-corresponding author, IF: 5.6, JCR: 18.7%)
6. Nam, Y., Kim, M. *, Erdenebileg, S., Cha, K.H., Rhy, D., Kim, H.Y., Nho, C.W. (2023) Sanguisorba officinalis L. ameliorates hepatic steatosis and fibrosis by modulating oxidative stress, fatty acid oxidation, and gut microbiota in CDAHFD-induced mice. Nutrients 15(17), 3779. (*co-first author, IF: 6.71, JCR: 16.1%)
7. Kim, M., Huda, M.N., Evans, L.W., Que, E., Gertz, E.R., Maeda-Smithies, N., Bennett, B.J. (2023) Integrative analysis of hepatic transcriptional profiles reveals genetic regulation of atherosclerosis in hyperlipidemic Diversity Outbred-F1 mice. Sci. Rep. 13(1):9475. (IF: 5.00, JCR: 25.3%)
8. Kim, M. , *Park, K.W.*, Ahn, Y., Lim, E.B, Kwak, S.H., Randy, A. Song, N.J., Park, K.S., Nho, C.W., Cho, Y.S. (2022) Genetic association-based functional analysis detects HOGA1 as a potential gene involved in fat accumulation. Front. Genetics. 13: 951025 (*co-first author, IF: 4.78, JCR: 24.2%)
9. Kim, M. , *Huda, M.N.*, Bennett, B.J., (2022) Sequence meets function—Microbiota and Cardiovascular Disease. Cardiovasc. Res. 118(2):399-412 (*co-first author, IF: 14.24, JCR: 6.6%)
10. Kim, M., Huda, M.N., O'Connor, A., Albright, J., Durbin-Johnson, B., Bennett, B.J., (2021) Hepatic transcriptional profile reveals the role of diet and genetic backgrounds on metabolic traits in female progenitor strains of the Collaborative Cross. Physiol. Genomics. 53(5): 173-192 (Selected as a cover page, IF: 4.30, JCR: 27.8%)