

Myungsuk Kim

Curriculum Vitae



Senior Research Scientist / Assistant Professor
Natural Product Efficacy Optimization Center, Korea Institute of Science and Technology (KIST), Korea

Educational Background & Professional Experience

- 2022–Present Assistant Professor, Division of Bio–Medical Science & Technology, UST (KIST School), Seoul, Republic of Korea
- 2022–Present Adjunct Professor, Yonsei University Wonju College of Medicine, Wonju, Republic of Korea
- 2022–Present Senior Research Scientist & Principal Investigator, Korea Institute of Science and Technology (KIST), Republic of Korea
- 2017–2021 Ph.D. in Nutritional Biology & Graduate Student Researcher, University of California, Davis / USDA Western Human Nutrition Research Center, USA
- 2013–2017 Research Scientist, Korea Institute of Science and Technology (KIST), Republic of Korea
- 2011 B.S. in Bioengineering and Business Administration, Yonsei University, Republic of Korea

Research Interests

Systems Genetics and Multi–omics Integration
Gut–Muscle–Immune Axis and Microbiome Dynamics
Therapeutic Strategies for Sarcopenia and Cancer Cachexia
Precision Nutraceuticals and Natural Product Efficacy

Publications

1. Youn, H.Y., Park, S., Min, H., Nguyen, B.N., Kim, Y.H., Cha, K.H., Park, Y.T., Kwon, H.Y., Lee, C., Kim, M. (2025). Micheliolide reduces cancer cachexia via the gut–immune–muscle axis through *P. vulgatus* enrichment. *Microbiome*, 2026.
2. Hong, S., Nguyen, B. N., Min, H.T., Youn, H.Y., Cha, K.H., Park, Y.T., Lee, C., Yoo, G.H., Kim, M. Host–specific effects of *Eubacterium* species on Rg3–mediated osteosarcopenia treatment in a genetically diverse mouse population. *Microbiome*, 2024.
3. Nguyen, B. N., Hong, S., Choi, S., Lee, C., Yoo, G.H., Kim, M. Dexamethasone–induced muscle atrophy and bone loss in six genetically diverse collaborative cross founder strains demonstrate phenotypic variability by Rg3 treatment. *Journal of Ginseng Research*, 2024.
4. Kim, M., Huda, M.N., Evans, L.W., Que, E., Gertz, E.R., Maeda–Smithies, N., Bennett, B.J. Integrative analysis of hepatic transcriptional profiles reveals genetic regulation of atherosclerosis in hyperlipidemic Diversity Outbred–F1 mice. *Scientific Reports*, 2023.
5. Kim, M., Huda, M.N., Bennett, B.J. Sequence meets function—Microbiota and Cardiovascular Disease. *Cardiovascular Research*, 2022.
6. Kim, M., Huda, M.N., O’Connor, A., Albright, J., Durbin–Johnson, B., Bennett, B.J. Hepatic transcriptional profile reveals the role of diet and genetic backgrounds on metabolic traits in female progenitor strains of the Collaborative Cross. *Physiological Genomics*, 2021.

