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Educational Background

2010.02 B.S., Chemistry, Sungkyunkwan University, Korea

2012.02 M.S., Chemistry, Sungkyunkwan University, Korea

2016.02. Ph.D., Analytical Chemistry, Sungkyunkwan University, Korea

Professional Experience

2016-2017 Postdoctoral Research Associate, Manchester Institute of Biotechnology, Manchester, UK

2017-Present Senior Researcher, Metropolitan Seoul Center, Korea Basic Science Institute

Main Scientific Publications

Lee S.H. et al. (2025) KN21, a direct AMPK activator, alleviates hepatic steatosis and fibrosis by modulating long-chain TAG and pyrimidine metabolism in a MASH mouse model. *Biomedicine & Pharmacotherapy* 193, 118798.

Park J.W. et al. (2025) Activation of lands cycle-mediated inflammation in living macrophages exposed to label-free particulate matter. *Journal of Hazardous Materials* 499, 140027

Lee S.H. et al. (2024) Comprehensive metabolomic analysis identifies key biomarkers and modulators of immunotherapy response in NSCLC patients. *Drug Resist. Updates* 77, 101159.

Kim Y. et al. (2023) Urinary metabolite profile predicting the progression of chronic kidney disease. *Kidney360* 4(8), 1048-1057.

Lee H.J. et al. (2023) Endothelial cell-derived stem cell factor promotes lipid accumulation through c-Kitmediated increase of lipogenic enzymes in brown adipocytes *Nat. Commun.* 14(1), 2754.

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Park S. et al. (2021) Comprehensive metabolomic profiling in early IgA nephropathy patients reveals urine glycine as a prognostic biomarker" *J. Cell. Mol. Med.* 25(11), 5177-5190.