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Research Keywords

Fluorescent probe, Chemoproteomics, Drug mode of action

Academic Career

Jun-Seok Lee received his Ph.D. in 2009 from New York University, where he developed a diversity-oriented BODIPY library for bioimaging probe discovery. Following his doctoral studies, he joined the Korea Institute of Science and Technology (KIST), serving as a principal researcher from 2010 to 2021. He then transitioned to academia as an Associate Professor in the Department of Pharmacology at Korea University College of Medicine (2021-2025). He is currently an Associate Professor in the School of Transdisciplinary Innovations and the Department of Chemistry at Seoul National University. His research focuses on chemical proteomics and host-pathogen interaction studies. Since 2021, he has served on the Editorial Advisory Board of ChemBioChem and as an Associate Editor of Proteome Science.

Selected Publications

Chemical proteomics for a comprehensive understanding of functional activity and the interactome.", Kozoriz, K; Lee, J. S.* Chem. Soc. Rev., 2025, 54, 6186-6207.

Disaggregation-Activated pan-COX Imaging Agents for Human Soft Tissue Sarcoma" Hong, K. T.; Park S. B.; Murale, D. P.; Lee, J. H.; Hwang, J.; Jang, W. Y.*; Lee, J. S.* Angew. Chem. Int. Ed., 2024, 63(24), e202405525

Multifunctional Photo-Cross-linking Probes: From Target Protein Searching to Imaging Applications" Kozoriz, K; Shkel, O; Hong, K. T.; Kim, D. H.; Kim, Y. K.; Lee, J. S.* Acc. Chem. Res., 2023, 56(1), 25-36.

Orthogonally-Tunable and ER-Targeting Fluorophores Detect Avian Influenza Virus Early Infection" Kang, T.; Haque, M. M.; Lee, B.; Hong, K. T.; Hong, S. C.; Kim, Y.; Lee, J.; Lee, J. S.*; Lee, D.* Nat. Commun., 2022, 13, 5841.

Why My Lab?

My lab can offer...

Experience of chemical proteomics research experience