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Research Keywords

Drug discovery, Targeted protein degradation, DNA-encoded library

Academic Career

B.S., 1991, Hanyang University; Ph.D., 2004, POSTECH (advisor: Sung-Keel Chung); Postdoctoral Training, 2005-2008, University of Texas Southwestern Medical Center (advisor: Thomas Kodadek); Assistant Professor, 2008-2012, Indiana University; Associate/Full Professor, 2012-present, POSTECH

Selected Publications

In situ click chemistry screen facilitated by an on-nanoparticle DNA-encoded library. Kim, M., et al. *Angew. Chem. Int. Ed.*, e202511606 (2025)

Encoded display of chemical libraries on nanoparticles. Lee, K. J. et al. *J. Am. Chem. Soc.*, 147, 11727 (2025)

Targeted degradation of transcription co-activator SRC-1 via the N-degron pathway. Lee, Y. et al. *Angew. Chem. Int. Ed.*, 59, 17548 (2020)

Targeted inhibition of the NCOA1/STAT6. Lee, Y., et al. *J. Am. Chem. Soc.*, 139, 16056 (2017)

A chemical inhibitor of the Skp2/p300 interaction. Oh, M. et al. *Angew. Chem. Int. Ed.*, 55, 602 (2016)

Pharmacological chaperones targeting MCL-1 and α -synuclein. Oh, M. et al. *Proc. Natl. Acad. Sci. U.S.A.*, 111, 11007 (2014)

Why My Lab?

My lab can offer...

Innovative techniques: Drug-candidate discovery via nano-based DNA-encoded libraries

Translational scope: From basic chemical biology through the preclinical–clinical continuum—end-to-end drug discovery from hit identification to targeted protein degradation (PROTACs/next-generation degraders)