

# KiBum Lee, PhD

Distinguished Professor Dept. of Chemistry & Chemical Biology  
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**BIOGRAPHY** KiBum Lee is a distinguished professor of chemistry and chemical biology at Rutgers University, where he has been a faculty member since 2008. The Lee laboratory engineers advanced nanotechnologies and chemical biology tools to modulate signaling pathways that direct stem cell differentiation and cancer cell behavior within disease and injury microenvironments. The group addresses critical challenges in regenerative medicine and cancer research by controlling cell-microenvironment interactions at subcellular and single-cell resolution, with the goal of developing transformative therapeutic strategies for CNS repair and personalized cancer treatment. From these research efforts, he has pioneered innovative technology platforms that overcome critical barriers to harnessing the full therapeutic potential of stem cells and cellular reprogramming. Over the past several Presenter: KiBum Lee (Rutgers University) 2026 – NRC-KSEA/ABSTRACT years, he has led an interdisciplinary laboratory of ~20 members, supported by annual funding of approximately \$1.3 million. Since joining Rutgers in 2008, he has secured over \$21 million in external grant funding, primarily as principal investigator (PI).

