



Se Hoon Choi, PhD

Assistant Professor

Harvard Medical School

Exercise Hormone Irisin Protects Against Alzheimer's Disease in 3D Culture

Se Hoon Choi, PhD, is an Assistant Professor of Neurology at Massachusetts General Hospital (MGH) and Harvard Medical School. Dr. Choi received his PhD in Neurobiology under Dr. Sangram Sisodia at the University of Chicago. He joined Dr. Rudolph Tanzi's lab at MGH and Harvard Medical School for his post-doc training. In the pursuit to understand Alzheimer's disease (AD), his current overall research objectives are to explore the roles of adult-generated neurons (adult hippocampal neurogenesis) in AD, to develop three-dimensional (3D) human neural cell culture models with application to AD in order to reveal its pathological mechanisms and find novel therapeutic targets, and to uncover the molecular mechanisms linking exercise hormone irisin to neuroprotection in AD. As his ultimate goal, he aims to identify novel, alternative druggable targets to treat cognitive decline in aging and neurodegenerative diseases.