

https://medicine.nus.edu.sg/phys/lab/Saji_Lab/People.html

Dr. Sajikumar Sreedharan obtained his Ph.D. in 2005 from the Leibniz Institute for Neurobiology (LIN), Otto-von-Guericke University, Magdeburg, Germany, where he studied the fundamental mechanisms of memory. During his postdoctoral training at the Technical University of Braunschweig, Germany, he investigated the role of metaplasticity in associative memory at the cellular level. His pioneering research on synaptic tagging and capture has revealed critical mechanisms and molecules essential for establishing associative plasticity and memory.

Since 2012, Dr. Sajikumar has been a faculty member in the Department of Physiology and, since 2021, serves as the Research Director of the Healthy Longevity Translational Research Programme at the Yong Loo Lin School of Medicine, National University of Singapore. His current research focuses on aging and neurodegeneration, Synaptic Tagging and Capture (STC) as a core mechanism for storing long-term memory (LTM) in healthy and aging neural networks, and metaplasticity as a compensatory mechanism to enhance memory in aging and neurodegenerative conditions.

He has been recognized for his scientific contributions with multiple awards, including the Singapore Neuroscience Association Young Investigator Award (2017), the Faculty Research Excellence Award (2017), and the Graduate Mentor Award (2021) from the National University of Singapore. In 2023, he was elected as a Fellow of the Indian Academy of Sciences. Most recently, in 2024, he was honored with the Investigator Award by the International Association of Neurons and Brain Diseases, recognizing his significant contributions to the field of neuroscience.

Dr. Sajikumar serves on the editorial boards of several leading journals, including *Neurobiology of Learning and Memory*, *Experimental Brain Research*, *Frontiers in Molecular Neuroscience*, and *Oxford Open Neuroscience*. Since October 2017, he has also served as a faculty member in the cognitive neuroscience category of F1000. His research has been consistently supported by prestigious funding bodies such as the Alexander von Humboldt Foundation (Germany), Deutsche Forschungsgemeinschaft (Germany), the National Medical Research Council (Singapore), the Ministry of Education (Singapore), and the National Institute on Aging (NIA), NIH (USA). He has been invited to speak at leading scientific venues, including The Royal Society, London.