



## Natasha Hussain

Associate Director for The Knight Initiative for Brain Resilience, Initiative in Brain Resilience

 Curriculum Vitae available Online

### Bio

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#### BIO

As Associate Director, Natasha Hussain designs and develops new initiatives, and oversees program operations that support the mission of the Knight Initiative for Brain Resilience. In her leadership role, Natasha facilitates community and research to advance discoveries that support human brain function, health, and longevity.

Natasha received a B.Sc. from McGill University in Montreal, QC, Canada where she completed a double major in biology and environmental science. Natasha continued in her doctoral training at McGill University's Montreal Neurological Institute at where she earned a Ph.D. in Neurology and Neurosurgery. With applied expertise in biochemistry, molecular and cell biology she contributed several central discoveries in neuroscience. Her studies focused on presynaptic endocytic recycling related to cell cytoskeletal dynamics, Rho GTPases mediated signal transduction, and the functional characterization of proteins implicated in Down's syndrome and Alzheimer's disease neuropathology. She conducted her postdoctoral training at MIT in the Picower Institute for Learning and Memory, Cambridge, MA, USA, where she studied molecular components of synaptic plasticity. Her research also focused on elucidating the cell biology and physiology of a family of protein kinases that are genetically linked to psychiatric disorders, and to determine their roles in the development and function of synapses.

Prior to joining the Knight Initiative at the Wu Tsai Neurosciences Institute, Natasha was the Scientific Director of the Johns Hopkins Kavli Neuroscience Discovery Institute focused on fostering transdisciplinary research among neuroscientists, engineers and data scientists.

#### EDUCATION AND CERTIFICATIONS

- PhD, McGill University , Neurology & Neurosurgery