

Special Issue

Mitochondrial Dysfunction in Neurodegenerative Diseases

Message from the Guest Editors

Alterations in mitochondrial bioenergetics, dynamics, mitophagy and oxidative stress originating at mitochondria have long been intertwined as causative factors for neurodegenerative diseases.

Neurodegeneration itself is a very complex process, and the various factors involved in its aetiology are not yet fully understood, which is why there are no disease-modifying therapies available. However, the future is not bleak; with recent technological advances, it is now possible to probe further than ever before into the mitochondria-related mechanisms of neurodegeneration. New factors, interactions and processes are being discovered every day. We are poised to make great strides towards finding a cure and, with our Special Issue, we hope to take advantage of this crucial turning point. We intend to provoke a healthy and fruitful discussion on mitochondria-targeted therapies in development and bring to the fore new and current advances in the understanding and clinical development of some of these disease mechanisms, biomarkers and therapies.

Guest Editors

Dr. Ashu Johri

Independent Researcher, New York, NY 10021, USA

Dr. Abhishek Chandra

Fell Family Brain and Mind Research Institute, Weill Cornell Medical College, New York, NY 10065, USA

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