



Mitochondrial Dynamics in Neurons

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Message from the Guest Editors

Dear Colleagues,

The chemical energy provided by the mitochondria is essential for proper neuronal function. The continuous distribution of mitochondrial energy required by neurons involves several biochemical processes that are closely coordinated by mito-nuclear communication, which adjusts neuronal bioenergetics in an activity-dependent manner. These processes include mitochondrial fusion, fission, and transport; mitochondrial quality control; replication, transcription, and translation of mitochondrial DNA. The alteration of any of these processes is at the root of various neurodegenerative diseases (NDs).

This Special Issue aims to cover research on cellular and molecular mechanisms involved in the regulation of mitochondrial dynamics and the mitochondrial DNA copy number in neurons. We will also incorporate research that aims to ascertain the role of mito-nuclear communication, mitochondrial quality control, and mitochondrial dynamics in NDs. The main objective is to bring together research on the different fields of mitochondrial biology to advance our knowledge of the physio-pathological effects of mitochondria in neuronal function.

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