

Special Issue

Cellular Metabolism in Neurological Disorders

Message from the Guest Editors

Recent years have witnessed a significant growth of evidence that show dysregulated energy metabolism in neurological disorders. The remarkable vulnerability of neuronal cells to energy reduction contributes to disease susceptibility and progression. In addition, mitochondrial dysfunction has been widely recognized as a typical clinical hallmark of several neurodegenerative disorders, including Huntington's disease, Parkinson's disease, Amyotrophic lateral sclerosis, Epilepsy, Schizophrenia, Multiple sclerosis, Neuropathic pain, and Alzheimer's disease. As the energy supply center of cells, the function of mitochondria has been extensively investigated in relation to the metabolism feature of CNS. Furthermore, glycogen metabolism has also been an important implication for the functioning of the brain, especially for the cooperation between astrocytes and neurons. In this Special Issue, we welcome any original research articles, short reports, reviews, and case reports that explore the impact and mechanisms of metabolic alterations in neurological disorders and provide a forum to discuss emerging metabolism-centric therapeutic avenues.

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2024)



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About the Journal

Message from the Editor-in-Chief

The metabolome is the result of the combined effects of genetic and environmental influences on metabolic processes. Metabolomic studies can provide a global view of metabolism and thereby improve our understanding of the underlying biology. Advances in metabolomic technologies have shown utility for elucidating mechanisms which underlie fundamental biological processes including disease pathology. *Metabolites* is proud to be part of the development of metabolomics and we look forward to working with many of you to publish high quality metabolomic studies.

Editor-in-Chief

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