

Special Issue

Unveiling the Impact of Metabolism on Neuroscience

Message from the Guest Editor

This Special Issue is focused on the molecular mechanisms describing metabolic energy and glucose pathways in the nervous system, inhibitory/excitatory mediator balances, free radical production and impact, signaling factors promoting the survival or death of neurons and glial cells, and on the diffusion and drainage of any catabolites and solutes from the interstitial fluid through the perivascular spaces towards the lymphatics of the head and neck. Methodologically, we welcome articles that provide insights on the molecular neuropathology of stroke and neurodegenerative diseases, ion balance and Ca²⁺ signaling, mitochondrial molecular mechanisms, oxidative stress, the characterisation of the redox environment, the intake and utilisation of oxygen, glucose, water diffusion, macromolecule tracing, functional imaging and EEG reflected in molecular pathology and molecular neuropathology. Altogether, this Special Issue welcomes submissions of original research and review articles related to any aspect of the molecular mechanisms and pathogenesis of neurodegenerative diseases and stroke, as well as the follow-up and characterisation of novel biomarkers and treatment options.

Guest Editor

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Deadline for manuscript submissions

closed (20 July 2023)



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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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