

Special Issue

Mitochondria and Central Nervous System Disorders

Message from the Guest Editor

In the past several decades, a mitochondria-centric vision has stepped into the fields of cell, organ, and organismal physiology, demonstrating exponential growth. Dysfunctional mitochondria or dysfunctional mitochondria dynamics have been linked to many pathological conditions. However, these alterations appear to more strongly affect the highly specialized and delicate cells of the central nervous system (CNS), contributing to the onset of a variety of diseases ranging from rare childhood disorders (e.g., Leigh syndrome or mitochondrial encephalopathy with lactic acidosis and stroke-like episodes) to more common age-related neurodegenerative conditions (e.g., dementia, Alzheimer's disease, and Parkinson's disease). This Special Issue is designed to emphasize the link between the (dys)function of mitochondria and CNS disorders, likely highlighting common or discrepant mechanisms underlying them. In this regard, we would like to invite review articles which address the above-mentioned topics or original research papers providing new evidence on the mitochondria–CNS pathological connection. I look forward to reading your contributions.

Guest Editor

Dr. Marta Giacomello

Department of Biology, University of Padova, Padova, Italy

Deadline for manuscript submissions

closed (31 March 2022)



Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



mdpi.com/si/35890

Biomolecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomolecules@mdpi.com

[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)





Biomolecules

an Open Access Journal
by MDPI

Impact Factor 4.8
CiteScore 9.2
Indexed in PubMed



[mdpi.com/journal/
biomolecules](https://mdpi.com/journal/biomolecules)



About the Journal

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

Author Benefits

Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)