



Molecular and Metabolic Insights into Neuroinflammation and Neurodegeneration

Guest Editors:

Dr. Giovanna Casili

Department of Chemical,
Biological, Pharmaceutical and
Environmental Sciences,
University of Messina, Viale
Ferdinando Stagno D'Alcontres,
31-98166 Messina, Italy

Dr. Marika Lanza

Department of Chemical,
Biological, Pharmaceutical and
Environmental Sciences,
University of Messina, Viale
Ferdinando Stagno D'Alcontres,
31-98166 Messina, Italy

Deadline for manuscript
submissions:

15 June 2024

Message from the Guest Editors

Dear Colleagues,

Inflammation in central nervous system (CNS) is recognized as laying a crucial role in the pathogenesis of several neurodegenerative disorders, in addition to acute or chronic neuroinflammatory diseases. Neuroinflammation may indeed be triggered by various stimuli, like infections, the release of toxic metabolites and abnormal accumulation of proteins, and it is mediated by the cytokines, chemokines, and reactive oxygen species (ROS) released by both resident and peripheral cells. Furthermore, metabolic and energetic disturbances have recently been determined to be both a consequence and a cause of neurodegeneration.

This Special Issue aims to highlight the numerous metabolic changes in neurodegenerative diseases and related current therapeutic approaches and to provide a more comprehensive overview of the role of neuroinflammation in the development of neurological and neurodegenerative diseases. Contributions from all research areas are welcome, including disease modeling; human neuropathology; biochemical, molecular, and clinical studies; genomics; proteomics, and therapeutic interventions.

Dr. Giovanna Casili
Dr. Marika Lanza





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

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.

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

International Journal of Molecular
Sciences Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI