



mTOR Signaling in Inflammation, Brain Injuries and Neurodegeneration

Guest Editor:

Prof. Dr. Cristina Malagelada

Department of Biomedicine,
Faculty of Medicine, Institute of
Neurosciences, Universitat de
Barcelona, 08036 Barcelona,
Spain

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editor

Neurodegeneration and neuroinflammation are modulated by signaling pathways that are impaired and associated with converging phenotypes including depression (in early stages of the diseases), motor symptoms, autonomic dysfunction, and dementia.

One of the key kinases involved in neurodegeneration and inflammation is the mechanistic target of rapamycin (mTOR).

This special issue is dedicated to research papers and review articles regarding the involvement of mTOR/Akt signalling in neurodegeneration and the intertwined inflammatory processes that are triggered. We would like to cover mTOR-mediated mechanisms that contribute to synaptic dysfunction, neuron death, circuit impairment, micro- and astrogliosis and neuroinflammation and neurodegeneration.

We encourage authors to submit mTOR-related molecular studies in but not limited to:

1. a) a neurodegenerative context (AD, PD, HD, ALS).
2. b) stroke or traumatic brain injuries.
3. c) pathogenic infections affecting the brain, such as SARS-CoV-2 or HIV.





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