Special Issue

Steering Functional Pathways, Genomic and Non-genomic, to Keep Neurodegeneration in Check

Message from the Guest Editor

TSPO was discovered in the early 1970s, and it is becoming more and more understood that TSPO can be targeted to treat neurological disorders. From its location in the mitochondria, TSPO is able to modulate various intracellular molecular biological mechanisms and, thus, regulate various cellular mechanisms, thereby affecting tissue and organ functions—for example, transport of molecules over the outer mitochondrial membrane, including Ca++, ATP, ROS, cholesterol, tetrapyrroles, cytochrome c, etc. Here, programmed cell death, gene expression, and metabolism is regulated. Consequently, the TSPO regulates inflammation and immune responses, as well as cell proliferation, migration, adhesion, differentiation, regeneration, wound healing, and angiogenesis. These are all essential functions related to various brain disorders and their healing. Interestingly, it is not only TSPO and its ligands that are able to do this; similar effects can also be achieved also via other functional pathways and proteins. Hopefully, the expansion of our knowledge of TSPO and other pathways will lead to efficacious treatments for various brain disorders.

Guest Editor

Dr. Leo Veenman

The Ruth and Bruce Rappaport Faculty of Medicine, Department of Neuroscience, Haifa, Israel

Deadline for manuscript submissions

closed (28 February 2022)

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/si/43961

International Journal of Molecular Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

mdpi.com/journal/ijms

MDPI

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/journal/ijms

MDPI

About the Journal

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.

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

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 and Molecular Biology) / CiteScore - Q1 (Organic Chemistry)