



## Melatonin and Brain Health

Guest Editor:

**Prof. Dr. Jana Tchekalarova**

Institute of Neurobiology,  
Bulgarian Academy of Sciences,  
Acad. G. Bonchev Street, Block  
23, 1113 Sofia, Bulgaria

Deadline for manuscript  
submissions:

**closed (30 April 2024)**

### Message from the Guest Editor

Understanding the main mechanisms associated with the changes associated with aging, as well as the factors that delay these inevitable destructive events in the structure and function of the brain, is important for identifying new therapeutic approaches to meet the needs of an aging population. Melatonin is an endogenous hormone synthesized and secreted by the pineal gland that is involved in the control of important physiological processes including in the nervous system related to circadian rhythms, energy metabolism, epigenetic factors, and autophagy.

This Special Issue will involve research manuscripts, reviews, as well as short commentaries on topics related to the underlying mechanism and the role of putative signaling molecules, including the hormone melatonin in aging and concomitant neurodegenerative diseases. It can cover reports from animal models to pre-clinical studies in the field of aging as well as neurodegenerative diseases. Papers focused on the intrinsic mechanisms underlying delay or facilitation of aging and melatonin impact on related processes will be considered for this Special Issue.





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