

Special Issue

Wired for Change: Neurotransmitter Plasticity and Circuit Dynamics in Health and Disease

Message from the Guest Editor

We invite submissions to the Special Issue *Wired for Change: Neurotransmitter Plasticity and Circuit Dynamics in Health and Disease*, which will explore how dynamic changes in neurotransmitter identity, signaling, and balance shape neural circuit function and behavior. Neurotransmitter plasticity—including phenotype switching, co-release, and re-specification—plays a critical role in adapting brain function to environmental and developmental stages. This Issue welcomes original research and reviews that examine how neurotransmitter dynamics regulate normal behavior or contribute to the etiology of brain diseases such as depression, anxiety, schizophrenia, and neurodegeneration. We are especially interested in studies using innovative molecular, circuit-level, and translational approaches—including imaging, opto/chemogenetics, single-cell transcriptomics, and disease modeling. We look forward to your contributions.

Guest Editor

Dr. Alessandra Porcu

Department of Drug Discovery and Biomedical Sciences, University of South Carolina, Columbia, SC, USA

Deadline for manuscript submissions

30 November 2025



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/242603

*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](https://mdpi.com/journal/ijms)





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](https://mdpi.com/journal/ijms)



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)