

Special Issue

Development of Dopaminergic Neurons 2.0

Message from the Guest Editor

Dopaminergic neurons located in the mammalian ventral midbrain have attracted the attention of many biomedical researchers due to their effect in severe human neuropsychiatric and neurodegenerative disorders. There are four major signalling pathways which play critical roles during the development of the midbrain dopaminergic (mDA) neurons. In spite of the intense research conducted in recent years, we have achieved little understanding related to the crosstalk and the interaction between those four major signalling pathways and how they promote the development of mDA neurons in the mammalian embryo. This has been a very exciting research field and a number of questions remain answering. Contributions to this Special Issue will provide new insights into the mechanisms of action of the development of DA neurons and for the modelling and drug screening of the disorders mentioned above in the basic and clinical research.

Guest Editor

Dr. Yasemin M. Akay

Department of Biomedical Engineering, University of Houston, Houston, TX 77204-5060, USA

Deadline for manuscript submissions

closed (20 March 2023)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



mdpi.com/si/129490

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

mdpi.com/journal/

[ijms](https://www.mdpi.com/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 8.1
Indexed in PubMed



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

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 (Inorganic Chemistry)