

## Special Issue

# Molecular Mechanisms of Asymmetric Cell Division in Neural Development and Disease

### Message from the Guest Editor

Asymmetric stem cell division (ASCD) is a fundamental and universal process to generate cell diversity during development and to modulate tissue homeostasis in the adult life. Besides, over the past decades, a connection between failures in the process of ASCD and tumorigenesis has become one of the most exciting findings in the field. Hence, understanding in depth the molecular mechanisms underlying the process of ASCD is of great relevance. Over the past few decades, we have also witnessed very significant advances on this topic, uncovering novel players and their mode of action to regulate ASCD. In this Special Issue, we aim to highlight this progress, provide novel and recent contributions, as well as to underscore the current challenges and future trends in the field. I encourage the submission of both original research articles and topical reviews on all related aspects of ASCD.

### Guest Editor

Dr. Ana Carmena

Developmental Neurobiology Department, Instituto de Neurociencias, Consejo Superior de Investigaciones Científicas/Universidad Miguel Hernández, 03550 Sant Joan d'Alacant, Alicante, Spain

### Deadline for manuscript submissions

closed (31 August 2021)



## International Journal of Molecular Sciences

an Open Access Journal  
by MDPI

Impact Factor 4.9  
CiteScore 9.0  
Indexed in PubMed



[mdpi.com/si/76086](https://mdpi.com/si/76086)

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