

Special Issue

Patient-Derived Organoids in Personalized Medicine

Message from the Guest Editor

Although classical 2D cell cultures have provided a tremendous amount of data on how cancers and other diseases are established, they do not properly model the intra- and interpatient cellular heterogeneity, characteristic for the *in vivo* situation. In addition, some diseases are difficult to model with mouse systems. The 3D organoid technology is a promising tool to solve many of these problems; it captures much of the cellular heterogeneity of the original tissue, is genetically stable, and it represents the complex architecture of the epithelial tissue of origin well. Not surprisingly, this technology has become an invaluable tool in the study of stem cells and their niche, the effect of mutations for diseases, and in finding novel drug combinations for individual cancer patients. In this Special Issue, we welcome original articles and reviews about the application of organoids in disease modelling and drug testing, in understanding the development of tissues and organs, and about methodological advancements in organoid technology.

Guest Editor

Dr. Zoltán Wiener

Department of Genetics, Cell and Immunobiology, Semmelweis University, Budapest, Hungary

Deadline for manuscript submissions

closed (31 December 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/53441

*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)