biomolecules

an Open Access Journal by MDPI

IMPACT FACTOR 5.5

Indexed in: PubMed

CITESCORE 9.4

Organoids and Advanced 3D Models in Biomedical Research

Guest Editor:

Dr. Marta Alves da Silva
Laboratory Animal Science Group, i3S-Instituto de Investigação e Inovação em Saúde, Rua Alfredo Allen, 208, 4200-135 Porto, Portugal

Deadline for manuscript submissions:
closed (25 January 2024)

Message from the Guest Editor

Dear Colleagues,

Biomedical research faces a demanding need for the replacement of animal experiments by reliable, safe, and accurate in vitro models that fully recapitulate the structure and function of human tissues. Advances in stem cells bioengineering enabled adult stem cells (ASCs) and induced pluripotent stem cells (iPSCs) long-term culture in a 3D cellular structure named organoids. They recreate cellular architecture; are functionally similar to the tissue they are modeling and their use as models allow research without confusing influences from the local microenvironment.

This Special Issue aims to disseminate state-of-the-art science around organoid model systems, covering organoids models in 3D microenvironments, genetic engineering of organoids and microphysiologic systems, as well as methods for improving organoids culture and high throughput screening.

In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following: disease modeling, personalized medicine, drug screening, tissue engineering, biomaterials, regenerative medicine and 3Rs.

mdpi.com/si/141738

Special Issue

biomolecules

IMPACT FACTOR 5.5 | Indexed in: PubMed | CITESCORE 9.4

an Open Access Journal by MDPI

Editors-in-Chief

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.
Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (Biochemistry)

Contact Us

Biomolecules Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
𝕏@Biomol_MDPI