

Indexed in: PubMed



an Open Access Journal by MDPI

# **3D Cell Culture in Disease Modeling and Tissue Regeneration**

Guest Editors:

Dr. Pasquale Marrazzo

Dr. Aijun Wang

Prof. Dr. Chengfei Zhang

Deadline for manuscript submissions:

closed (30 September 2023)

## **Message from the Guest Editors**

This Special Issue aims to collect articles detailing the contribution of 3D cell culture to uncovering novel insights into the molecular mechanisms regulating pathogenesis in the advancement of cell-based biofabrication and in enabling regenerative medicine strategies. Original research articles, review articles, and short communications are welcome.

Potential topics include but are not limited to the following:

- Development or application of in vitro 3D disease models
- Novel co-culture protocols and multicellular systems
- Evaluation of tumor/cancer spheroids (tumoroids)
- Three-dimensional culture of stem cells
- Organoids and organotypic cultures
- New tissue engineering strategies
- Bioprinted cell-based models
- Biomimetic scaffold development and biocompatibility
- Novel biomaterials used in preclinical or clinical studies
- Validation of drugs and compounds in 3D in vitro systems
- Testing of natural compounds in 3D models
- Organ-on-a-chip and cell-based sensors
- Fluidic and label-free approaches for 3D modeling
- Standardization of 3D models













an Open Access Journal by MDPI

#### **Editor-in-Chief**

#### Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

### Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased 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, PMC, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (Engineering, Biomedical)

#### **Contact Us**