

## Special Issue

# Analytical Approaches in 3D in vitro Systems

### Message from the Guest Editors

This Special Issue aims to provide a comprehensive overview of analytical methods (both established and novel) suitable for the evaluation of 3D in vitro systems, providing insight into the physiology and parameter control of biological samples. Both original research contributions and review papers are welcome, which may include but are not limited to the following topics:

- Characterization of materials in 3D with or without living cells (composition, rheology, surface properties, etc.);
- Analysis of viability and development of 3D in vitro systems (e.g., cell mobility, morphology, expression of specific markers);
- Methods for continuous monitoring and control over 3D cultures (environmental parameters such as pH, dissolved oxygen, metabolites, etc.).

---

### Guest Editors

Dr. Boštjan Vihar

Dr. Jan Rožanc

Dr. Uroš Maver

---

### Deadline for manuscript submissions

closed (31 December 2023)



## Bioengineering

---

an Open Access Journal  
by MDPI

---

**Impact Factor 3.8**  
**CiteScore 4.0**  
**Indexed in PubMed**



[mdpi.com/si/93249](https://mdpi.com/si/93249)

*Bioengineering*  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[bioengineering@mdpi.com](mailto:bioengineering@mdpi.com)

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





## Bioengineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.8  
CiteScore 4.0  
Indexed in PubMed



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



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

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

---

### Author Benefits

#### High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

#### Journal Rank:

JCR - Q2 (Engineering, Biomedical)

#### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.4 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2024).