



## Engineered Microenvironments for 3D Cell Culture and Regenerative Medicine

Guest Editor:

**Dr. Anna E. Guller**

1. The Graduate School of  
Biomedical Engineering,  
University of New South Wales,  
Sydney, Australia  
2. Institute for Regenerative  
Medicine, Sechenov University,  
Moscow, Russia

Deadline for manuscript  
submissions:  
**closed (31 July 2022)**

### Message from the Guest Editor

The Special Issue on the “Engineered microenvironments for 3D cell culture and regenerative medicine” is open for the original papers and reviews. The topics and themes of this unique collection will include but not limited to, the following:

- Quantitative studies revealing the role of multiple controlled interacting factors in cell biological behaviour modulation in the context of normal and pathological tissue growth.
- Comparative studies of different types of engineered 3D cell culture microenvironments.
- Biological accuracy and relevance of 3D engineered cell culture microenvironments.
- Industrial applications and clinical translation of the results obtained using 3D engineered cell culture microenvironments.
- Advanced and innovative research applications of 3D engineered cell culture microenvironments.
- Reconstruction of functional tissues for regenerative medicine applications.
- Methodology for the analysis of the biological, physical, chemical, and material parameters of 3D engineered microenvironments for cell culture and regenerative medicine.





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](#), [CAPus / SciFinder](#), [Inspec](#), and [other databases](#).

**Journal Rank:** JCR - Q2 (Engineering, Biomedical)

## Contact Us

---

*Bioengineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/bioengineering](http://mdpi.com/journal/bioengineering)  
[bioengineering@mdpi.com](mailto:bioengineering@mdpi.com)  
[X@Bioeng\\_MDPI](https://twitter.com/Bioeng_MDPI)