

Special Issue

Advanced Dynamic Cell and Tissue Culture

Message from the Guest Editors

The current Special Issue wants to highlight new strategies for the development of bioprocesses for organ specific cell cultivation as well as stem cell expansion and differentiation. New designs for 3D cell culture approaches including co-cultures and scalable systems shall be presented and applications are welcome from the whole field of cell based therapies and in vitro tests. This issue is open for papers addressing:

- 3D biomaterials for cell and tissue culture
- Bioreactor design and optimization including automation
- Microfluidics (e.g. organ on a chip)
- Stem cell expansion and differentiation including tissue engineering approaches
- Application of physiological conditions including mechanical stimulation
- Sensors and monitoring devices in 3D cell cultures

Guest Editors

Prof. Dr. Cornelia Kasper

Department of Biotechnology, University of Natural Resources and Life Sciences, 1190 Vienna, Austria

Dr.-Ing. Jan Hansmann

Head of Junior Research Group "Electronic-Tissue Interfaces", Chair of Tissue Engineering and Regenerative Medicine, University Hospital Wuerzburg, Roentgenring 11, 97070 Wuerzburg

Deadline for manuscript submissions

closed (30 April 2018)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/10688

Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

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





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
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 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.