

Special Issue

Organs-on-Chips

Message from the Guest Editor

This Special Issue thus aims to depict the current scenario in this field of animal and human organs-on-a-chip models. Reports on the development of anchillary technologies, such as on-chip or downstream sensing, perfusion systems, and engineering approaches to support cell development, are welcome. New strategies and revised approaches for manufacturing organs-on-a-chip will be included, including new techniques to solve the limitations of traditionally used plastics (e.g., molecules adsorption, hydrophobicity, and transparency), using alternative, sustainable, manufacturing processes and materials. Examples of contributions could address:

- Animal and human organs-on-a-chip models
- Validation of organs-on-a-chip models for drug testing and drug screening, toxicity, and toxicology studies
- Novel methods of analysis of the organs' effluents
- Non perturbative analytical methods
- Sensors integration and techniques for *in situ* monitoring
- Multiple organs connections and validation

Guest Editor

Dr. Virginia Pensabene

School of Electrical and Electronic Engineering, University of Leeds, Leeds, UK

Deadline for manuscript submissions

closed (31 October 2019)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 4.4
CiteScore 7.5
Indexed in PubMed



mdpi.com/si/20854

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 4.4
CiteScore 7.5
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) / CiteScore - Q2 (Bioengineering)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 17 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the second half of 2025).