

Special Issue

Functional Biomaterials for Regenerative Engineering

Message from the Guest Editor

In this Special Issue, we will include example papers for hydrogel-based biomaterials. We will also cover a wider range of biomaterial variants, e.g.,

- porous scaffolds,
- nano- and micro-particles,
- synthetic or naturally derived polymers, proteins, carbohydrates, lipids

that highlight research results from basic science to clinical applications. This issue will also highlight the applications of these biomaterial technologies to create instructive microenvironments to control cell fate such as self-renewal, quiescence and differentiation. In addition, microfabrication techniques for regenerative engineering, such as implementation of microfluidic tools and bioprinting approaches will also be covered in this Special Issue. Published Paper Gasparro, R. et al. Non-Transfusional Hemocomponents: From Biology to the Clinic—A Literature Review. *Bioengineering* 2018, 5, 27; doi:10.3390/bioengineering5020027. Potential Contributors 1. Dr. Anthony Guiseppi-Elie group "Microfabricated and 3-D Printed Bioelectronic Constructs from Electroconductive Hydrogels" 2. Dr. Émilie Velot group

Guest Editor

Dr. Gulden Camci-Unal

Department of Chemical Engineering, University of Massachusetts Lowell, Lowell, MA 01854, USA

Deadline for manuscript submissions

closed (15 July 2018)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 4.0
Indexed in PubMed



mdpi.com/si/13288

Bioengineering
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 3.8
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 15.6 days after submission; acceptance to publication is undertaken in 3.1 days (median values for papers published in this journal in the first half of 2024).

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.