Special Issue

Extracellular Matrix in Wound Healing

Message from the Guest Editors

The derivation of tissue specific extracellular matrix scaffolds (ECM-scaffolds) represent an exciting approach to biomaterial design since it relies on the natural design and composition of the tissue of interest. The special issue will focus on mechanistic studies looking at:

- Derivation of tissue specific ECM scaffolds with an emphasis on mechanistic reasons for the enhanced tissue response
- Compositional analysis and comparisons of ECM scaffolds
- Use of ECM-scaffolds to create *in vitro* testing platforms
- Role of tissue specificity on stem cell differentiation *in vitro*
- Role of tissue specificity on host tissue response
- ECM-scaffold directed stem cell differentiation
- Mechanism for macrophage polarization *in vitro* and *in vivo*
- Mechanisms for scar tissue inhibition

Guest Editors

Prof. Dr. Donald Freytes

The University of North Carolina at Chapel Hill, Joint Department of Biomedical Engineering, Chapel Hill, United States

Dr. Camilo Mora-Navarro

Joint Department of Biomedical Engineering, NC State/ UNC-Chapel Hill

Deadline for manuscript submissions

closed (31 July 2019)

Bioengineering

an Open Access Journal by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed

mdpi.com/si/23282

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

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

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, CAPlus / 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.

MDPI