

Special Issue

Cardiac Regeneration

Message from the Guest Editors

Cardiac regeneration remains a dream of modern medicine. After decades of intense stem cell research, still no treatment option for the regeneration of the heart exists in clinical routine use. At the same time, heart failure is a classified endemic in the Western world. It is ever increasing, thereby causing a tremendous socio-economic problem for public healthcare systems. We therefore are in urgent need of innovative new approaches towards cardiac regeneration. This Special Issue on "Cardiac Regeneration" will therefore focus on original research papers and comprehensive reviews, dealing with cutting-edge experimental approaches for myocardial regeneration. Topics of interest for this Special Issue include but are not limited to the following:

- Cellular transdifferentiation and reprogramming;
- Extracellular vesicles;
- Cell-free therapeutic treatment options;
- New approaches in gene therapy and genomic editing;
- Bioengineering approaches;
- Angiogenesis and neovascularization;
- RNA-based tissue regeneration;
- Epigenetic regulation.

Guest Editors

Dr. Johannes Holfeld

CARE lab, University Clinic of Cardiac Surgery, Medical University of Innsbruck, 6020 Innsbruck, Austria

Dr. Can Gollmann-Tepeköylü

CARE lab, University Clinic of Cardiac Surgery, Medical University of Innsbruck, 6020 Innsbruck, Austria

Deadline for manuscript submissions

closed (20 October 2020)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/46038

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.