



## Individualized Cardiovascular Implants: Latest Devices, Techniques and Strategies

Guest Editors:

**Dr. David Santer**

**Dr. Karl H. Schneider**

**Prof. Dr. George Truskey**

Deadline for manuscript  
submissions:

**closed (31 March 2024)**

### Message from the Guest Editors

In recent years, cardiac surgery has become more and more of a multidisciplinary specialty. Twenty years ago, who would have thought that cardiac surgeons would specialize in interventional procedures and share the cardiac OR with cardiologists, vascular surgeons, interventional radiologists, and sometimes even biomedical engineers? New technologies and multidisciplinary strategies allow for customized scaffold designs for implants and result in innovative therapies for today's patients.

The goal of this Special Issue is to collect original papers, reviews, and case reports on new approaches to manufacturing and testing novel implants in cardiovascular research and resulting innovations in surgical therapy. It is intended to be a collection of content from the laboratory to the bedside: promising results from biomedical research such as new materials, designs, or manufacturing processes of implants, as well as minimally invasive surgical procedures, hybrid approaches, combined multidisciplinary procedures, or new techniques in cardiac surgery.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical  
Engineering, Texas A&M  
University, College Station, TX  
77843, USA

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**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 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).

## Contact Us

*Bioengineering* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/bioengineering](http://mdpi.com/journal/bioengineering)  
[bioengineering@mdpi.com](mailto:bioengineering@mdpi.com)  
X@Bioeng\_MDPI