

Special Issue

Models and Methods for Computational Cardiology: 2nd Edition

Message from the Guest Editors

In this Special Issue, we will highlight some of the recent developments advancing our understanding and diagnosis of cardiovascular disease. The enhancement of imaging modalities facilitated the resolution of disease initiation and progression, which until recently was only available in humans post mortem. Advances in cardiovascular computational modeling and cardiovascular informatics, together with these novel imaging modalities, engender new opportunities for earlier interventions and better outcomes in cardiovascular disease. In this Special Issue, entitled “Models and Methods for Computational Cardiology”, we welcome you to contribute a research paper or review article addressing any aspect of this topic, including novel basic science or clinical approaches that better define the mechanisms of cardiovascular development and pathology. Novel models for pediatric and adult heart disease, including those that seek to improve the outcomes of surgical interventions, are also relevant topics for this Special Issue. This is an excellent opportunity for clinical and basic sciences trainees in your group to contribute to the field.

Guest Editors

Prof. Dr. Richard L. Goodwin

Biomedical Engineering Department, College of Engineering and Computing, University of South Carolina, Greenville, SC 29605, USA

Prof. Dr. Sandra Rugonyi

Department of Biomedical Engineering, School of Medicine, Oregon Health Sciences University, Portland, OR 97239, USA

Deadline for manuscript submissions

31 January 2026



Journal of Cardiovascular Development and Disease

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.7
Indexed in PubMed



mdpi.com/si/182094

*Journal of Cardiovascular
Development and Disease*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
jcdd@mdpi.com

[mdpi.com/journal/
jcdd](https://mdpi.com/journal/jcdd)





Journal of Cardiovascular Development and Disease

an Open Access Journal
by MDPI

Impact Factor 2.3
CiteScore 3.7
Indexed in PubMed



[mdpi.com/journal/
jcdd](https://mdpi.com/journal/jcdd)



About the Journal

Message from the Editor-in-Chief

The primary goal of the *Journal of Cardiovascular Development and Disease* (JCDD, ISSN 2308-3425) is to provide cardiovascular scientists a platform to publish their work in a quick and efficient way. Topics can range from studies designed to decipher the events underlying early heart development to studies focusing on the origins of congenital and acquired heart disease. Papers submitted to JCDD undergo a fast, yet thorough, peer-review process. In this process, we will apply strict ethical policies and standards. JCDD guarantees fast dissemination of results to a large scientific audience

Editor-in-Chief

Prof. Dr. Thomas Brand
National Heart & Lung Institute, Imperial College London, South
Kensington Campus, London SW7 2AZ, UK

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Cardiac and Cardiovascular Systems) /
CiteScore - Q2 (General Pharmacology, Toxicology and
Pharmaceutics)

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 28.8 days after submission; acceptance to publication is undertaken in 2.9 days (median values for papers published in this journal in the first half of 2025).