

Special Issue

Model Systems for Heart Regeneration

Message from the Guest Editors

Innate heart regeneration is a carefully orchestrated process that requires multiple cell types to enable cardiomyocyte proliferation after injury. Prior work indicates that a heart regeneration program is conserved from zebrafish to mammals. However, while this program is active in neonatal mammals, adult mammals lack the capacity for meaningful heart regeneration. A better understanding of the signals that enable and repress heart regeneration is fundamental to realize therapeutic heart regeneration. This Special Issue of *JCDD* focused on “Model Systems for Heart Regeneration” provides a critical appraisal of pre-clinical platforms for studying innate cardiac regenerative programs. We hope to capture state-of-the-art techniques for studying regeneration, including tools for tracing cell fates, deconvolving growth niches, and identifying new molecular regulators of heart regeneration. We are seeking novel discussions of regenerative models, including but not limited to zebrafish, salamanders, mice, pigs, and humans.

Guest Editors

Dr. Ravi Karra

Division of Cardiology, Department of Medicine, Duke University Medical Center, Box 102152, Durham, NC 27710, USA

Prof. Dr. Richard T. Lee

1. Department of Stem Cell and Regenerative Biology and the Harvard Stem Cell Institute, Harvard University, 7 Divinity Ave, Cambridge, MA 02138, USA

2. Division of Cardiovascular Medicine, Department of Medicine, Brigham and Women’s Hospital and Harvard Medical School, 75 Francis St, Boston, MA 02115, USA

Deadline for manuscript submissions

closed (31 March 2022)



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/91652

*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).