

Special Issue

Heart Development Defects: Focus on the Myoarchitecture of the Heart

Message from the Guest Editor

With recent advances in cardiac imaging, it is necessary to update our understanding of the anatomy of the normal heart and those with developmental anomalies. These methodologies provide insights into quantitative 3D myoarchitecture at various spatial resolutions, ranging from the micrometer level, utilizing synchrotron imaging and multiphotonic microscopy, to the submillimeter level, employing speckle echocardiographic, CT and MRI techniques. Nevertheless, the process of 3D imaging encompasses more than merely the analysis of stacked slices of the heart. In order to comprehend the full scope of the information provided by these novel tools, it is essential to grasp the fundamental concepts of discrete differential geometry and continuum mechanics. This Special Issue will provide a comprehensive overview of the relationships between the trabecular and the compact ventricular wall, accompanied by a thorough exploration of several developmental anomalies. This is a foundational piece of work, and it is the right time to engage with it.

Guest Editor

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Deadline for manuscript submissions

31 January 2027



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/247218

*Journal of Cardiovascular
Development and Disease*
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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

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