Special Issue

Bioinformatics for Cardiovascular Disease

Message from the Guest Editors

Cardiovascular disease research is being rapidly transformed by advances in bioinformatics. This Special Issue aims to bring together original research articles, short communications, and reviews that demonstrate how state-of-the-art bioinformatics tools and approaches are driving discoveries in cardiovascular health and disease.

Contributions for this Special Issue should emphasize the integration of computational innovation with biological and clinical insights, fostering a multidisciplinary approach that bridges computational science, molecular biology, clinical cardiology, and translational medicine.

Topics of interest include, but are not limited to, the following:

Spatial profiling methods for in situ characterization of cardiac tissues.

Machine learning and AI approaches for risk prediction, imaging, and biomarker discovery.

Computational modeling of cardiac function, electrophysiology, and biomechanics.

Bioinformatics tools for the analysis of wearable devices and the analysis of remote monitoring data.

Data challenges, standardization, privacy, and reproducibility in cardiovascular bioinformatics.

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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

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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).