



Recent Advances in the Role of Translation Machinery and Translational Control in the Cardiovascular System

Guest Editors:

Dr. Peng Yao

Department of Biochemistry and Biophysics, Center for RNA Biology, Center for Biomedical Informatics, University of Rochester Medical Center, Rochester, NY, USA

Dr. Wei Guo

Department of Animal and Dairy Sciences, University of Wisconsin, Madison, WI 53706, USA

Deadline for manuscript submissions:

30 September 2025

Message from the Guest Editors

Dear Colleagues,

We invite investigators to contribute original research articles and review articles focused on the role of translation machinery and translational control in physiological homeostasis and pathological changes in the cardiovascular system.

Potential topics include, but are not limited to, the following:

Translational control of cardiovascular development and diseases;

Function and mechanism of translation factors and RNA-binding proteins in the pathological changes in the cardiovascular system;

Role of non-coding RNAs in the regulation of protein synthesis in cardiovascular disease and heart failure;

Signaling pathways in translational regulation to the structural and functional alterations of the heart and blood vessels;

Novel translation-manipulating therapeutic approaches in cardiovascular disease.





an Open Access Journal by MDPI

Editors-in-Chief

Prof. Dr. Peter E. Nielsen

Department of Cellular and
Molecular Medicine, Faculty of
Health and Medical Sciences,
University of Copenhagen,
Blegdamsvej 3C, DK-2200
Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan

Department of Computer
Science, Virginia Commonwealth
University, Richmond, VA 23284,
USA

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted 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, MEDLINE, PMC, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore - Q1 (Biochemistry)

Contact Us

Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/biomolecules
biomolecules@mdpi.com
[X@Biomol_MDPI](https://twitter.com/Biomol_MDPI)