

Special Issue

Role of Endothelial Cells in Cardiovascular Disease

Message from the Guest Editors

Endothelial cells' function plays a pivotal role in cardiovascular system homeostasis through the regulation of several blood vessels' functions such as vasodilation, inflammation and thrombosis. Cardiovascular diseases represent a leading cause of mortality and morbidity, and endothelial dysfunction contributes to their pathogenesis. Thus, increasing our knowledge regarding endothelial cells' pathophysiology in the setting of cardiovascular diseases is strongly advised in order to prevent and treat the most important cardiac and vascular pathologies such as hypertension, diabetes, intimal hyperplasia, venous and arterial thrombosis, and heart diseases. This Special Issue welcomes basic and clinical research, covering original articles and reviews on:

- Endothelial cells' physiology and pathophysiology;
- Endothelial cells' role in the pathogenesis of acute and chronic cardiovascular diseases;
- The role of acute and chronic systemic diseases in the genesis of endothelial dysfunction;
- New pharmacological approaches for endothelial dysfunction;
- Endothelial progenitor cells and cardiovascular regenerative medicine.

Guest Editors

Dr. Lorenzo Falsetti

Department of Emergency Medicine, Internal and Sub-Intensive Medicine, Azienda Ospedaliero-Universitaria "Ospedali Riuniti", 60166 Ancona, Italy

Dr. Vincenzo Zaccone

Department of Emergency Medicine, Internal and Sub-Intensive Medicine, Azienda Ospedaliero-Universitaria "Ospedali Riuniti", 60166 Ancona, Italy

Deadline for manuscript submissions

closed (31 May 2024)



Biomedicines

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8
Indexed in PubMed



mdpi.com/si/134098

Biomedicines
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
biomedicines@mdpi.com

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





Biomedicines

an Open Access Journal
by MDPI

Impact Factor 4.5
CiteScore 7.8
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

Biomedicines (ISSN 2227-9059) is an open access journal devoted to all aspects of research on human health and disease, the discovery and characterization of new therapeutic targets, therapeutic strategies, and research of naturally driven biomedicines, pharmaceuticals, and biopharmaceutical products. Topics include pathogenesis mechanisms of diseases, translational medical research, biomaterial in biomedical research, natural bioactive molecules, biologics, vaccines, gene therapies, cell-based therapies, targeted specific antibodies, recombinant therapeutic proteins, nanobiotechnology driven products, targeted therapy, bioimaging, biosensors, biomarkers, and biosimilars. The journal is open for publication of studies conducted at the basic science and preclinical research levels. We invite you to consider submitting your work to *Biomedicines*, be it original research, review articles, or developing Special Issues of current key topics.

Editor-in-Chief

Prof. Dr. Felipe Fregni

1. Neuromodulation Center and Center for Clinical Research Learning, Spaulding Rehabilitation Hospital and Massachusetts General Hospital, Harvard Medical School, Boston, MA 02114, USA
2. Department of Epidemiology, Harvard T.H. Chan School of Public Health, Boston, MA 02115, USA

Author Benefits

High Visibility:

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

Journal Rank:

JCR - Q2 (Pharmacology and Pharmacy) / CiteScore - Q1 (Medicine (miscellaneous))

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 18.2 days after submission; acceptance to publication is undertaken in 2.8 days (median values for papers published in this journal in the first half of 2026).