

Special Issue

Role of G-Protein Coupled Receptors in Cardiovascular Diseases

Message from the Guest Editors

Cardiovascular diseases (CVDs) are a group of disorders of the heart and blood vessels, including coronary heart disease, cerebrovascular disease and thrombosis. Although over the years, significant efforts have been made to prevent or treat these diseases, it still remains one of the leading causes of death worldwide. The inflammatory processes in CVDs are facilitated by a network of circulating immune cells and tissue resident cells, which is orchestrated by various mediators which interact, bind and induce signaling. Over the last years, G protein coupled receptors (GPCRs) emerged as important players in recognizing these mediators, both in steady state and inflammatory processes like CVDs. GPCRs are seven-transmembrane domain receptors and can be subdivided in several sub-classes and subgroups. In order to better comprehend the pathology behind CVDs, it is important to obtain a good overview of the role of GPCRs and the underlying molecular mechanisms. Therefore, the present Special Issue aims to provide an current state-of-the-art overview of the role of GPCRs in CVDs.

Guest Editors

Dr. Emiel P.C. van der Vorst

1. Interdisciplinary Center for Clinical Research (IZKF), 52056 Aachen, Germany
2. Institute for Molecular Cardiovascular Research (IMCAR), 52056 Aachen, Germany
3. Aachen-Maastricht Institute for CardioRenal Disease (AMICARE), 52056 Aachen, Germany
4. Institute for Cardiovascular Prevention (IPEK), Ludwig-Maximilians-Universität (LMU) München, 80337 Munich, Germany

Ms. Selin Gencer

Institute for Cardiovascular Prevention (IPEK), Ludwig-Maximilians-Universität (LMU) München, Munich, Germany

Deadline for manuscript submissions

closed (30 June 2022)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/61091

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

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





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



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



About the Journal

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences,
Sez-Biochimica, Faculty of Medicine, Università Politecnica delle
Marche, Via Ranieri 65, 60100 Ancona, Italy

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, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Biochemistry and Molecular Biology) / CiteScore
- Q1 (Organic Chemistry)