



Transcriptional Regulation of Cardiac Development and Disease

Guest Editors:

Dr. Nicole Wagner

Institute of Biology Valrose,
University of Nice Sophia
Antipolis, 06107 Nice, France

Dr. Kay-Dietrich Wagner

CNRS, INSERM, iBV, Université
Côte d'Azur, 06107 Nice, France

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

The heart is the first organ that forms and functions during embryonic development. Cardiomyocyte proliferation is a prerequisite for cardiac regeneration in the adult.

Increased cardiomyocyte repair needs additional adequate blood supply (angiogenesis) for proper cardiac function. Damaged cells must be removed by immune cells and the tissue temporarily stabilized by a fibrotic response. However, excessive or prolonged immune and fibroblast activation will result in additional damage and impaired function due to increased tissue stiffness. Thus, for efficient cardiac repair after injury, not only cardiomyocyte proliferation, but also adequate timing of angiogenesis, immune, and fibrotic response must be well orchestrated.

This Special Issue of IJMS will bring together the most recent advances in understanding the various aspects of the transcriptional regulation of cardiac development and disease, from basic science to applied therapeutic approaches, and will provide new insights into the complex transcriptional regulation of cardiac development, disease, regeneration, and the different cell types involved.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. José L. Quiles

Department of Physiology,
Institute of Nutrition and Food
Technology “Jose Mataix”,
Biomedical Research Center,
University of Granada, Avda.
Conocimiento s/n, 18100 Armilla,
Granada, Spain

Message from the Editor-in-Chief

The *International Journal of Molecular Sciences (IJMS)* 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, and molecular biophysics. *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.

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, CAPus / SciFinder, and other databases.

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

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI