



Advances in Molecular Research of Diabetic Cardiomyopathy

Guest Editors:

Dr. Giacomina Brunetti

Department of Biosciences,
Biotechnologies, and
Environment, University of Bari,
Piazza Giulio Cesare, 11, 70124
Bari, Italy

Dr. Antonella Galeone

Department of Surgery, Dentistry,
Pediatrics and Gynecology,
Division of Cardiac Surgery,
University of Verona, 37134
Verona, Italy

Deadline for manuscript
submissions:

30 May 2024

Message from the Guest Editors

This Special Issue will enclose a number of papers related to diabetic cardiomyopathy (DCM). DCM is the consequence of an altered glucose metabolism, leading to structural heart defects and altered activity. It is associated with oxidative stress, overactivation and expression of the renin angiotensin aldosterone system, abnormalities in intracellular calcium transport, mitochondrial dysfunction, and so on, but these mechanisms are not completely understood. To sum up, DCM is an independent complication of diabetes with a complex pathogenesis. There is no specific treatment so far, which mainly focuses on controlling blood sugar, lowering blood pressure and blood lipids, and improving lifestyles. Thus, this Special Issue will include research papers as well as reviews focusing on molecular studies highlighting the following:

- Mechanisms of DCM development.
- Therapeutic intervention, including possible clinical trials.
- Stem cell-based approaches for intervention strategies against DCM.
- Gene target therapy.





an Open Access Journal by MDPI

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

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.

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 & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

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