## **Special Issue**

## Mitochondrial Control of Muscle Growth in Health and Diseases

## Message from the Guest Editor

The heart is the engine of life that relies on mitochondria for a continuous supply of energy. Mitochondria are unique multifunctional organelles that control a myriad of cellular responses including cardiac calcium handling, redox balance, and cell death. Recently, mitochondria have also been identified as key players in the regulation of pathological and physiological growth of striated muscle. Not only by providing the building blocks for growth, but also by fostering direct mitochondrial to nuclear crosstalk that regulate cellular growth responses. The exact mechanisms responsible for mitochondrial to nuclear crosstalk in cardiac and skeletal muscle and how they contribute to adaptive and maladaptive cardiac growth remains elusive. In the Special Issue, we solicit original and review articles that provide novel insights into the role of this intriguing form on subcellular communication in the context of adaptive and maladaptive muscle growth in health and disease.

## **Guest Editor**

Dr. B. Daan Westenbrink

Department of Cardiology, University of Groningen, University Medical Center Groningen, 9713 GZ Groningen, The Netherlands

## Deadline for manuscript submissions

closed (31 December 2021)



# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed



#### mdpi.com/si/65957

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





# International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9 CiteScore 9.0 Indexed in PubMed





## 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)

