



mTOR Signaling: New Insights into Cancer, Cardiovascular Diseases, Diabetes and Aging

Guest Editors:

Dr. Anindita Das

Department of Internal Medicine,
Virginia Commonwealth
University, 1101 East Marshall
Street, Sanger Hall, Rm # 7020B,
Richmond, VA 23298, USA

Dr. Flávio Reis

Centre for Innovative
Biomedicine and Biotechnology
(CIBB), Institute of Pharmacology
& Experimental Therapeutics, &
Coimbra Institute for Clinical and
Biomedical Research (iCBR),
Faculty of Medicine, University of
Coimbra, 3000-548 Coimbra,
Portugal

Deadline for manuscript
submissions:
closed (31 January 2023)

Message from the Guest Editors

The mechanistic target of rapamycin (mTOR), an atypical multidomain serine/threonine kinase of the phosphoinositide 3-kinase (PI3K) related kinase family, elicits a significant role in integrating intracellular and environmental cues that orchestrate gene transcription, protein synthesis, tissue regeneration and repair, oxidative stress, cell metabolism, growth, proliferation, autophagy, apoptosis, survival, and longevity. Aberrant activation of mTOR is potentially associated with the etiology of many pathological conditions, including cancer, obesity and diabetes, cardiovascular diseases, pulmonary hypertension, and neurodegeneration. Based on its pathophysiological importance, the mTOR signaling pathway has attracted unprecedented attention among basic scientists and clinicians. This Special Issue welcomes original research articles, reviews, or shorter perspective articles as well as novel technological approaches with an emphasis on the molecular aspects of mTOR signaling in metabolic syndrome, cardiovascular diseases, cancer, and aging, which would advance our knowledge to develop novel therapeutic or nutraceutical strategies to treat many human diseases.





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