



Tumor Metabolism and Signaling

Guest Editor:

Dr. Niramol Savaraj

Department of Medicine,
University of Miami Miller School
of Medicine, Miami, FL, USA

Deadline for manuscript
submissions:

closed (30 April 2021)

Message from the Guest Editor

Dear Colleagues,

Cancer cells are known to possess extraordinary capability to expand and survive in the harsh environment. In order to do so, they use a number of metabolic reprogramming to ensure both fuel and building block supplies are sufficient. In fact, most tumor cells utilize “aerobic glycolysis”, the so called “Warburg effect” to generate sufficient ATP and nucleotides. In addition, they also require amino acids to sustain their proliferation. The key amino acids which are essential for tumor cells to multiply and invade are glutamine, arginine, leucine and serine. Tumor cells are also surrounded by immune cells, macrophages, leukocytes and fibroblasts which also require nutrients to survive and eliminate tumor cells. Thus, the dynamic between tumor cells and stromal cells/immune cells is important to determine the growth and survival of tumor cells. Tumor and immune cells/stromal cells metabolism play an important role in this process. In this issue, we plan to discuss the key aspects in tumor metabolism and signaling and how to exploit them for treatment.





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 and Molecular Biology) / CiteScore - Q1 (Inorganic 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