



Amino Acid Transporters and Signaling in Cancer

Guest Editors:

Dr. Barrie P. Bode

Department of Biological
Sciences, Northern Illinois
University, DeKalb, IL 60115, USA

Dr. Neetika Khurana

Department of Biological
Sciences, Northern Illinois
University, DeKalb, IL 60115, USA

Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Metabolic reprogramming in cancer is recognized as a common and integral component of multistep tumorigenesis. Among nutrients, amino acids are central to growth signaling and cellular stress responses; likewise, the cellular machinery involved in delivering and sustaining the amino acid ecosystem is often altered in the course of cancer metabolic reprogramming. As such, amino acid transporters, metabolic enzymes, and signaling proteins are actively investigated as potential targets for cancer therapies. This Special Issue of the *International Journal of Molecular Sciences* focuses on the role of amino acid transporters and linked signaling proteins involved in cell-autonomous cancer growth and tumorigenesis. Papers are sought particularly in the area of transporter targeting and its effects on metabolism, growth, and stress response signaling in cancer cells and the tumors that they spawn. This rapidly emerging area of research is poised to be an integral component of advances in cancer therapy either directly, or as an adjuvant, as we move into the 2020s.





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