



Omics in Space

Guest Editor:

Dr. Herbert Schulz

1. Department of Microgravity and Translational Regenerative Medicine, Medical Faculty, University Hospital Magdeburg, Otto von Guericke University, Universitätsplatz 2, 39106 Magdeburg, Germany

2. Clinic for Plastic, Aesthetic and Hand Surgery, Medical Faculty, University Hospital Magdeburg, Otto von Guericke University, Leipziger Straße 44, 39120 Magdeburg, Germany

3. Research Group 'Magdeburger Arbeitsgemeinschaft für Forschung unter Raumfahrt- und Schwerelosigkeitsbedingungen' (MARS), Otto von Guericke University, Universitätsplatz 2, 39106 Magdeburg, Germany

Deadline for manuscript submissions:

closed (30 November 2022)

Message from the Guest Editor

Dear Colleagues,

A stay in space causes biochemical changes in organisms which are first and foremost due to microgravity, but also to space radiation, altered day-night rhythms and, especially in humans, social isolation. The special issue "Omics in Space" deals with the molecular causes of these environmental changes.

Submitted publications should be clearly related to genetic, transcriptional, epigenetic, proteomic or metabolomic studies under space conditions or simulated space conditions. Studies should not be limited to a selected group of candidate genes/proteins but should comprehensively map at least one omics aspect. The studies can relate to plants, animals and humans. A disease reference, especially to human diseases, is desired but not required. Space relevance is also granted under simulated space conditions such as simulated microgravity (e.g. clinostat, RPM, rotating wall vessels) or simulation of space radiation etc.. In particular, we welcome the submission of studies that integrate multiple omics aspects under space conditions, so-called multi-omics studies.





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