

Special Issue

Omics in Space

Message from the Guest Editor

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.

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

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

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