

Special Issue

Microgravity and Space Medicine

Message from the Guest Editor

This Special Issue focuses on the impact of altered gravity conditions on mammalian cells, animals, and humans during spaceflights. It addresses the impact of cosmic radiation, available countermeasures, and possible applications on Earth. The Special Issue will also publish studies investigating the impact of real and simulated microgravity on human and animal cells as well as on microorganisms. A special focus lies on projects in the field of cancer research and tissue engineering. Ground-based facilities available to simulate microgravity on Earth can be used for studying changes in various cell types. Articles and reviews will be published which examine either the molecular biological background of external signals in cancer and other diseases or cellular mechanisms responsible for the manifold changes occurring in cells and animals when exposed to microgravity. In addition, manuscripts reporting on experiments utilizing microgravity for tissue engineering purposes and also on bioprinting of tissues used in microgravity applications will be accepted for publication.

Guest Editor

Dr. Daniela Grimm

1. Institute of Biomedicine, Aarhus University, Ole Worms Allé 4, 8000 Aarhus, Denmark

2. Department of Microgravity and Translational Regenerative Medicine, Otto von Guericke University Magdeburg, Pfälzerplatz 2, 39106 Magdeburg, Germany

Deadline for manuscript submissions

closed (31 March 2021)



International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



mdpi.com/si/44597

*International Journal of
Molecular Sciences*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
ijms@mdpi.com

[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)





International Journal of Molecular Sciences

an Open Access Journal
by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed



[mdpi.com/journal/
ijms](https://mdpi.com/journal/ijms)



About the Journal

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.

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

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 (Organic Chemistry)