

Special Issue

Oxidative Stress and Damage in the Space Environment: Physiological Ground and Flight Parallels

Message from the Guest Editors

Technological advances now allow the planning of deep space exploration missions with the aim to discover new habitats for humankind. Exciting work from a multitude of investigators across the US, Canada, Europe, and Japan have identified oxidative damage as a key risk factor to major organs and systems physiologies that could pose a threat to the health of the astronauts and the success of the mission. This Special Issue of *IJMS* is dedicated to providing a comprehensive overview of the identified risks in space flight and habitation and will focus on ground based vs. flight comparisons of how oxidative stress when exposed to space-relevant conditions such as cosmic/galactic radiation, solar particle events, hypogravity (G-variations and partial gravity) and hypoxia/hyperoxia or any aggregate combination of stressors effects the human physiology.

Guest Editors

Prof. Dr. Melpo Christofidou-Solomidou

Division of Pulmonary, Allergy, and Critical Care Medicine and the Department of Medicine, University of Pennsylvania Perelman School of Medicine, Philadelphia, PA 19104, USA

Dr. Thomas J. Goodwin

Goodwin BioScience Research Institute, Houston, TX 77258, USA

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

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