



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

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

1. Sovaris Aerospace, Research
Innovation, Infectious Disease
Research Center Colorado State
University, Fort Collins, CO 80521,
USA
2. The National Aeronautics and
Space Administration (NASA
Retired) Johnson Space Center,
Houston, TX 77058, USA

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Message from the Guest Editors

Dear Colleagues,

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.

Prof. Dr. Melpo Christofidou-Solomidou
Dr. Thomas J. Goodwin
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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

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