

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.

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