

Special Issue

Advances in Space Biomedicine and Disease Pathogenesis

Message from the Guest Editors

This Special Issue focuses on recent advances investigating biomedicine and disease pathogenesis in space environments ranging from simulated to orbital/suborbital microgravity, and cosmic radiation exposure. These reveal novel mechanically or gravity-driven processes that influence human development and health, with key pathways initiated during the onset of disease pathogenesis providing new biomarkers to monitor cellular and physiological stress or provide targets for novel therapeutic countermeasures. This has significant benefit not only for the next generation of spacefarers, but critically, in combatting diseases on Earth that are frequently associated with aging, or deleterious effects of limited mobility. Further, manuscripts are invited in research that exploits the challenges of research in simulated or orbital/suborbital microgravity, through biomedical advancements in device miniaturization to improve biomedical diagnostic tools that have applications in remote or extreme environments, or through developments in tissue engineering.

Guest Editors

Dr. Ian R.D. Johnson

Dr. Roxy Fournier

Prof. Dr. Nathaniel Szewczyk

Deadline for manuscript submissions

closed (26 April 2023)



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Life (ISSN 2075-1729) is an international, peer-reviewed open access journal that publishes scientific studies related to fundamental themes in life sciences. Some papers are published individually, while others are submitted for inclusion in special issues with guest editors. You are invited to contribute a research article, essay, or a review to be considered for publication.

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