

Special Issue

The Space Environment on Human Health and Disease

Message from the Guest Editors

Dear colleagues, Understanding how all aspects of the human body and its microbiome changes and adapts to space travel is essential to reach our goal of long-duration human exploration in low Earth orbit and beyond. This Special Issue will solicit original research articles, reviews, and commentaries on the effects of spaceflight on astronauts' microbiome and physiology. Topics of interest include, but are not limited to: Omics studies on the human microbiome during spaceflight and analog missions. The effects of stress, diet, radiation, and altered gravity on the taxonomic and functional profiles of the microbiome. Studies related to countermeasures, such as training regimes, diet, and probiotics, in maintaining a balanced astronaut microbiome. The impact of spaceflight on bone health, immunity, cognitive function, cancer risk, anxiety, allergies and hypersensitivities, viral reactivation, and GI function (to name but a few). Association studies between various space-related effects on astronaut health—for example, the microbiome and immune function, or the immune system and bone health, during spaceflight.

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Message from the Editor-in-Chief

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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