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Space Radiobiology

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Message from the Guest Editors

From the beginning of mankind, humans have always wondered about the outer space above and its conquer. In the last 50 years, space biology has enriched the basic knowledge about the effects of space-radiation exposure and gravity unloading. However, the majority of studies are aimed at the protection of astronauts flying in the low earth orbit (LEO), and they are based on a yet few numbers of data collected from real space flight conditions or simulated ones. Future studies should not only be aimed at the prevention of health problems in space, but also at the management and resolution of pathological issues that may occur in an altered gravitational environment. To note that, health risks both comprise the ones deriving from a long-term radiation and microgravity exposure (cancer, immunological and neurological impairments, infections, muscle and bone loss, etc), together with the ones associated to isolation and confinement conditions (psychological problems). On the other side, outputs coming from space biology research may be useful to ameliorate human life on earth.



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Special Issue



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Message from the Editor-in-Chief

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