

Special Issue

Fungal Research in Microgravity: The Biotechnological Promise of Fungi for Space Applications

Message from the Guest Editors

Space captivates the scientific community as it presents unparalleled environmental challenges, spanning from enhanced irradiation to microgravity. While a considerable body of research has explored the adaptive responses of various life forms—bacteria, yeast, and plants—to these unique conditions, there remains an intriguing yet comparatively understudied group: fungi. These resilient organisms, renowned for their ability to not only survive but also flourish in some of Earth's harshest niches, hold significant promise for biotechnological advancements in space exploration. The potential that fungi possess, both in survival and functional capacities, may well be instrumental in shaping the trajectory of future space exploration. Therefore, studying mycology in extraterrestrial settings is not only a scientific imperative but also a broader call to unlock potential tools and solutions for space missions.

We therefore invite scholars to shed light on this critical topic, emphasizing its relevance and the groundbreaking possibilities it holds.

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