

Editorial

Advances in Space Biology: Cell Behavior in Microgravity

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The intrinsic nature of human beings always pushes them to search for knowledge of everything that surrounds them, from the depths of the sea to the peaks of the mountains up to the space expanses. At first, scientists developed instruments, which allowed deep space to be observed, and this has since developed into a massive exploration campaign, unveiling space as a fascinating extreme environment.

Recent decades have seen an increasing number of space missions that, with the ambitious goal of colonizing the Moon and reaching Mars and other distant planets, have opened new areas of scientific research, which intend to build a better understanding of how the space environment affects living systems [1–3]. Nowadays, space biology has become a highly topical scientific field that has increasingly earned the interest of the scientific community. This area of research, even if established for space exploration, has offered new fundamental pieces of information on how cells perceive the gravitational force, and more generally the “physic” microenvironment in which they are embedded. It is now well documented that gravitational force change, experienced by living organisms during spaceflights, significantly impacts several biological processes, such as metabolism, adhesion, cytoskeleton re-modelling, replication, and gene expression control. The cellular mechanisms triggered by microgravity have been disclosed only partially and are still under investigation. However, it is clear that all cell types, from prokaryotes to eukaryotes, react to microgravity, in an attempt to adapt to it. However, much more is yet to be discovered and defined. This research topic even opens to the development of new devices that facilitate the study and exploitation of the microgravity effects on living systems, giving new perspectives to industrial research purposes. This Special Issue, “Advances in space biology: cell behaviour in microgravity”, set out to describe how space biology has modified our perception of “Cell Biology”, from a scientific and technological point of view. We collected 10 manuscripts including 5 full original articles, 1 brief communication, and 4 reviews. All of them, though lending different perspectives, sharpened the focus on the cell response to microgravity conditions and on the difficulties peculiar to this kind of investigation.

In this short editorial, we wish to highlight the most relevant “take-home-messages” of the articles and reviews that contributed to the success of this project. It should be noted that most of the manuscripts examined the effects of microgravity on mammalian cells, suggesting that one of the most consistent research interests is centered around the effects of space flight on complex organisms. Notably, research articles focused on the cell adaptation potential and differentiation processes under microgravity conditions, as well as on the possible countermeasures applicable to minimize microgravity-dependent cell alterations. Some articles regarded results obtained in a real space environment, but most of the proposed papers reported results obtained in simulated microgravity systems. To this regard, it is worth mentioning that one review and one of the research articles have explored the microgravity simulators, including their strengths, limits, and defects, as well as how to implement their performances [4,5]. This highlights how space biology research has had a robust impact at the bio-engineering level, encouraging new technologies which



Citation: Mariggiò, M.A.; Ricci, G. Advances in Space Biology: Cell Behavior in Microgravity. *Appl. Sci.* **2022**, *12*, 11575. <https://doi.org/10.3390/app122211575>

Received: 1 November 2022

Accepted: 10 November 2022

Published: 15 November 2022

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Microgravity Advances In Space Research Ser V

Chao Zhang



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Table of Contents Microgravity Advances In Space Research Ser V

1. Understanding the eBook Microgravity Advances In Space Research Ser V
 - The Rise of Digital Reading Microgravity Advances In Space Research Ser V
 - Advantages of eBooks Over Traditional Books
2. Identifying Microgravity Advances In Space Research Ser V
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Microgravity Advances In Space Research Ser V
 - User-Friendly Interface
4. Exploring eBook Recommendations from Microgravity Advances In Space Research Ser V
 - Personalized Recommendations
 - Microgravity Advances In Space Research Ser V User Reviews and Ratings
 - Microgravity Advances In Space Research Ser V and Bestseller Lists
5. Accessing Microgravity Advances In Space Research Ser V Free and Paid eBooks
 - Microgravity Advances In Space Research Ser V Public Domain eBooks
 - Microgravity Advances In Space Research Ser V eBook Subscription Services
 - Microgravity Advances In Space Research Ser V Budget-Friendly Options
6. Navigating Microgravity Advances In Space Research Ser V eBook Formats

- ePub, PDF, MOBI, and More
 - Microgravity Advances In Space Research Ser V Compatibility with Devices
 - Microgravity Advances In Space Research Ser V Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Microgravity Advances In Space Research Ser V
 - Highlighting and Note-Taking Microgravity Advances In Space Research Ser V
 - Interactive Elements Microgravity Advances In Space Research Ser V
 8. Staying Engaged with Microgravity Advances In Space Research Ser V
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Microgravity Advances In Space Research Ser V
 9. Balancing eBooks and Physical Books Microgravity Advances In Space Research Ser V
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Microgravity Advances In Space Research Ser V
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Microgravity Advances In Space Research Ser V
 - Setting Reading Goals Microgravity Advances In Space Research Ser V
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Microgravity Advances In Space Research Ser V
 - Fact-Checking eBook Content of Microgravity Advances In Space Research Ser V
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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