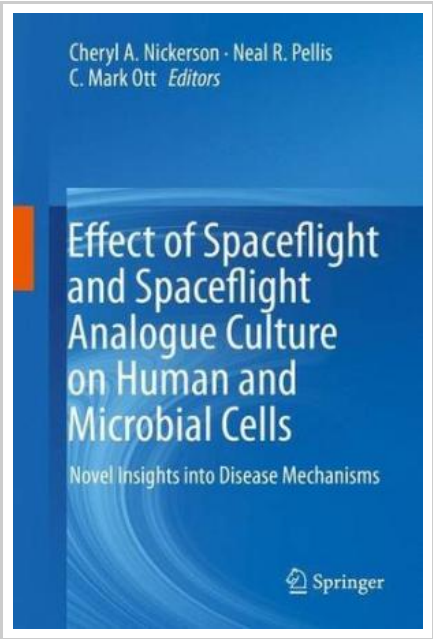

Effect of Spaceflight and Spaceflight Analogue Culture on Human and Microbial Cells 2016: Novel Insights into Disease Mechanisms (Hardback)

By -

Springer-Verlag New York Inc., United States, 2016. Hardback. Book Condition: New. 2016 ed.. 235 x 155 mm. Language: English . Brand New Book. Many breakthroughs in biological research and translational healthcare advancements have been achieved by studying the response of biological systems to extreme environments. The spaceflight platform provides a unique environment where researchers can explore fundamental questions into cellular and molecular response mechanisms to unveil novel insight into human health and disease. Since the physical force of gravity has shaped the architecture of all biological systems on our planet, spaceflight provides the opportunity to see life in a new adaptational mode - in response to reduced gravity. This enables investigations into the effects of the microgravity environment and associated changes in mechanical forces on mammalian cells/tissues and microbial pathogens, to bring novel insight into disease mechanisms, which are not discernable using conventional experimental approaches. Research using spaceflight platforms represents a paradigm shift in how we observe life processes and is on the leading edge of research discoveries into cellular and molecular mechanisms of health and disease. By incorporating the views of leading authors, this book highlights landmark discoveries and advances in mammalian cellular and microbiology research in both true...

Reviews

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