

SPRINGER BRIEFS IN SPACE DEVELOPMENT

Virginia E. Wotring

Space Pharmacology



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Jiyuan Zhang



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secondary messenger function and gene and protein expression specifically in the context of gravity *Human Enhancement Technologies and Healthcare Policy* Jacek Klich, 2024-08-01 Human enhancement HE is considered one of the most profoundly impactful effects of the Fourth Industrial Revolution This book presents the definition theory scope and main challenges of HE from a health policy and healthcare systems perspective It offers a comprehensive view of the consequences of human enhancement disrupting the status quo in health service delivery and social coherence The book examines the latest achievements of HE focusing on four forms of enhancement cognitive physical mood and moral These forms are supported by the list of specific technologies and techniques used for HE The book identifies the current trends in HE s development and analyses the challenges that HE poses to health policy and healthcare systems It discusses the legal and financial aspects of HE including regulation and shows that the financing of HE goes far beyond the scope of universal health coverage thus opening the door for private voluntary insurance and or out of pocket payments This in turn leads towards growing inequalities which may threaten social cohesion Readers will receive a structured picture of the latest advances in HE and trends in the field as well as a list of the challenges and problems that HE generates The book offers a concise picture of HE for students and researchers across the political sciences public health public sector management and sociology It will also find an audience among healthcare managers policymakers and those who are interested in social change **SpringerBriefs in Space Development , Biotechnology in Space** Günter Ruyters, Christian Betzel, Daniela Grimm, 2017-12-21 This book summarizes the early successes drawbacks and accomplishments in cell biology and cell biotechnology achieved by the latest projects performed on the International Space Station ISS It also depicts outcomes of experiments in tissue engineering cancer research and drug design and reveals the chances that research in Space offers for medical application on Earth This SpringerBriefs volume provides an overview on the latest international activities in Space and gives an outlook on the potential of biotechnological research in Space in future This volume is written for students and researchers in Biomedicine Biotechnology and Pharmacology and may specifically be of interest to scientists with focus on protein sciences crystallization tissue engineering drug design and cancer research *Fundamentals of Space Medicine* Gilles Clément, 2011-07-07 Investigations in space have led to fundamental discoveries of the human body to the space environment Gilles Clément has conducted extensive research in this field This readable text presents the findings from the life science experiments conducted during and after space missions About 1200 human space flights have been completed to date including more than 500 astronauts from various countries for a combined total presence in space of about 90 years The first edition of this title was published in 2005 written in 2003 2004 and new data is now available from crewmembers participating in long duration flights on board the International Space Station ISS The number of astronauts who have spent six months in orbit has doubled since 2004 On board the ISS the astronauts use newly developed pharmaceutical countermeasure for bone loss such as bisphosphonates and state of the art exercise resistive devices against muscle atrophy

and cardiovascular deterioration The ISS life support systems now use advanced closed loop systems for meeting the needs of a 6 person crew including recycling urine to water Some of these new technologies have potential spin offs for medical i e sedentary life style obesity and environmental issues here on Earth And finally there are new space research opportunities with the Orion space vehicle that will soon replace the Space Shuttle the Moon and Mars space exploration program that is slowly but surely taking shape and the space tourism sector that has become a reality The focus on this edition is the ISS Orion and planetary exploration and space tourism This edition also includes more than 20% new material along with photographs data and video clips for Springer Extras

Space Physiology and Medicine Arnauld E. Nicogossian, Richard S. Williams, Carolyn L. Huntoon, Charles R. Doarn, James D. Polk, Victor S. Schneider, 2016-12-13 As space medicine evolved from the late 1950s onward the need arose for a ready reference for students and practitioners on the basic concepts of this new specialty Through three editions edited by leaders in the development of space medicine this classic text has met the need This fourth edition of *Space Physiology and Medicine* provides succinct evidence based summaries of the current knowledge base in space medicine and serves as a source of information on the space environment responses and practices Additionally there is extensive online material available for each chapter featuring overviews and self study questions

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