

GRAVITY AND THE BEHAVIOR OF UNICELLULAR ORGANISMS



Donat-Peter Häder
Ruth Hemmersbach
Michael Lebert

Developmental and Cell Biology Series

Gravity And The Behavior Of Unicellular Organisms

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Gravity And The Behavior Of Unicellular Organisms:

Gravity and the Behavior of Unicellular Organisms Donat-Peter Häder, Ruth Hemmersbach, Michael Lebert, 2005-01-17 Unicellular organisms use gravity as an environmental guide to reach and stay in regions optimal for their growth and reproduction. These single cells play a significant role in food webs and these factors together make the effects of gravity on unicellular organisms a fascinating and important subject for scientific study. In addition, they present valuable model systems for studying the mechanisms of gravity perception, a topic of increasing interest in these days of experimentation in space. This book reveals how single cells achieve the same sensoric capacity as multicellular organisms like plants or animals. It reviews the field, discussing the historical background, ecological significance, and related physiology of unicellular organisms as well as various experimental techniques and models with which to study them. Those working on the biology of unicellular organisms as well as in related areas of gravitational and space science will find this book of value.

Contributions to the Study of the Behavior of Lower Organisms Herbert Spencer Jennings, 1904 **Gravitational Biology II** Wolfgang Hanke, Florian P.M. Kohn, Maren Neef, Rüdiger Hampp, 2018-12-30 This volume of the series Space Life Sciences provides insights into the latest findings of gravity research and the effect of gravity on biological systems specifically on a cellular and molecular level. It starts by explaining the underlying physics of gravity and presenting some novel ideas on the basic principles of gravity perception. It then goes on to discuss how, in response to gravity perception, secondary messengers such as calcium and hydrogen peroxide might control responses further downstream, like gene and protein expression and modulation. Further, it describes the consequences for animal and plant cells as well as for metabolism. Written by experts in the field, this book is a valuable resource for students and researchers in biochemistry, medicine, and biomedicine wanting to gain a solid understanding of membrane biology, secondary messenger function, and gene and protein expression specifically in the context of gravity. **Gravitational Biology I** Markus Braun, Maik Böhmer, Donat-Peter Häder, Ruth Hemmersbach, Klaus Palme, 2018-07-20 This book summarizes what is currently known about gravity sensing and response mechanisms in microorganisms, fungi, lower and higher plants, starting from the historical eye-opening experiments from the 19th century up to today's extremely rapid advancing cellular, molecular, and biotechnological research. All forms of life are constantly exposed to gravity, and it can be assumed that almost all organisms have developed sensors and respond in one way or the other to the unidirectional acceleration force. This book shows us some of these different ways. The book is written for plant biologists and microbiologists as well as scientists interested in space and gravitational biology. *Euglena: Biochemistry, Cell and Molecular Biology* Steven D. Schwartzbach, Shigeru Shigeoka, 2017-04-19 This much-needed book is the first definitive volume on *Euglena* in twenty-five years, offering information on its atypical biochemistry, cell and molecular biology, and potential biotechnology applications. This volume gathers together contributions from well-known experts who in many cases played major roles in elucidating the phenomenon discussed. Presented in three parts, the first section of this

comprehensive book describes novel biochemical pathways which in some instances have an atypical subcellular localization. The second section details atypical cellular mechanisms of organelle protein import, organelle nuclear genome interdependence, gene regulation and expression that provides insights into the evolutionary origins of eukaryotic cells. The final section discusses how biotechnologists have capitalized on the novel cellular and biochemical features of *Euglena* to produce value added products. *Euglena Biochemistry: Cell and Molecular Biology* will provide essential reading for cell and molecular biologists with interests in evolution, novel biochemical pathways, organelle biogenesis and algal biotechnology. Readers will come away from this volume with a full understanding of the complexities of the *Euglena* as well as new realizations regarding the diversity of cellular processes yet to be discovered. **Biology in Space and Life on Earth** Enno Brinckmann, 2008-01-08. This concise yet comprehensive treatment of the effects of spaceflight on biological systems includes issues at the forefront of life sciences research such as gravitational biology, immune system response, bone cell formation and the effects of radiation on biosystems. Edited by a leading specialist at the European Space Agency (ESA) with contributions by internationally renowned experts, the chapters are based on the latest space laboratory experiments including those on SPACELAB, ISS, parabolic flights and unmanned research satellites. An indispensable source for biologists, medical researchers and astronautics experts alike. The results of Space flight experiments, ground controls and flight simulations pave the way for a better understanding of gravity reactions in various organisms down to molecular mechanisms. This publication marks also the beginning of a new Space flight era with the construction and exploitation of the International Space Station (ISS) which provides a platform for an in depth continuation of experiments under weightlessness in Low Earth Orbit and beyond. *Contributions to the Study of the Behaviour of Lower Organisms* Herbert Spencer Jennings, 1904. *Encyclopedia of Astrobiology* Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27. Now in its third edition, the *Encyclopedia of Astrobiology* serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists. Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture. The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology. The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e.g. the prevalence of exoplanets, the diversity and hardiness of life and its chances for emergence. Biologists, astrophysicists, biochemists, geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe. With its overview articles and its definitions, the *Encyclopedia of Astrobiology* not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific

disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

Into Space Thais Russomano, Lucas Rehnberg, 2018-05-30 Our anatomy and physiology have been completely shaped by Earth's gravity All body systems function in synergy with this unseen force Yet as we journey further and longer into space our bodies must conform to a new reality wherein gravity is absent or reduced cosmic radiation threatens and our social and familial connections become distant

Into Space A Journey of How Humans Adapt and Live in Microgravity gives an overview of some of the physiological anatomical and cellular changes that occur in space and their effects on different body systems such as the cardiovascular and musculoskeletal and touches on cultural and psychosocial aspects of leaving behind family and the safety of Earth It further addresses the complexity of manned space flights showing how interdisciplinary this subject is and discussing the challenges that space physiologists physicians and scientists must face as humans seek to conquer the final frontier

Habitability of the Universe before Earth, 2017-12-11 Habitability of the Universe before Earth Astrobiology Exploring Life on Earth and Beyond series examines the times and places before life existed on Earth that might have provided suitable environments for life to occur addressing the question Is life on Earth de novo or derived from previous life The universe changed considerably during the vast epoch between the Big Bang 13.8 billion years ago and the first evidence of life on Earth 4.3 billion years ago providing significant time and space to contemplate where when and under what circumstances life might have arisen No other book covers this cosmic time period from the point of view of its potential for life The series covers a broad range of topics encompassing laboratory and field research into the origins and evolution of life on Earth life in extreme environments and the search for habitable environments in our solar system and beyond including exoplanets exomoons and astronomical biosignatures Provides multiple hypotheses on the origin of life and distribution of living organisms in space Explores the diversity of physical environments that may support the origin and evolution of life Integrates contemporary views in biology and cosmology and provides reasons that life is far more mobile in space than most people expect Includes access to a companion web site featuring supplementary information such as animated computer simulations

Utilization of Space Berndt Feuerbacher, Heinz Stoewer, 2006-03-06 Utilization of space what for This book attempts to answer this question With this volume we intend to provide a single reference for the broad field of space utilization Of all the books we know this is the first to cover all aspects of scientific and application oriented activities in space even though with limits We have attempted to document the current state of the art and open at the same time a

perspective towards the future We also want to bridge the gap between the many popular books dealing with space and academic te books on specific research fields in space science applications or technology The book addresses a professional readership while still offering much information to interested laymen It should well serve students of physics geodesy informatics mechanical electrical or aerospace engineering It should give scientists at universities and research institutions an overview of the extensive opportunities offered by space investigations and industrial engineers and managers additional insights into the commercial potential of space It should also help decision makers in agencies governments and industry to understand better the multidisciplinary interrelationships between utilization aspects and space infrastructure Our co authors are amongst the world s most distinguished leaders in their fields Their respective areas of search are presented by many illustrations and focus on the central messages rather than attempting to be exha tive Each chapter lists references for further reading highlighting original publications the most relevant te books and major internet resources **The Heredity**

Hoax Richard M. Lerner,Gary Greenberg,2025-01-30 This innovative and thought provoking book integrates both new authored material and reprints of existing literature that together provide a compelling narrative that reveals the fatally flawed science associated with genetic reductionist accounts of human behavior and development Through an interdisciplinary lens it illuminates the dynamic nature of human development empowering readers to question established notions and embrace the complexity of our potential Across the book the work of top tier scientists from developmental comparative educational and biological science illuminates theory and research converging on the conclusion that the multiple egregiously flawed work of genetic reductionists should be expunged from research pertinent to human development The book challenges the prevailing reductionist narratives and their application to social policies programs and uses in media Theoretically based and empirically rigorous this multidisciplinary approach to human development will shine a light on the inequities in individuals or groups that suggest that specific genes do not enable them to succeed in life The Heredity Hoax invites graduate programs and advanced undergraduate courses on human development human potential epigenetics and more to delve into the intricate interplay between genes environment and personal growth This will also serve as an unimpeachable source of evidence for researchers educators and social policymakers **Hormones, Signals**

and Target Cells in Plant Development Daphne J. Osborne,Michael T. McManus,2005-04-11 Meristematic cells in plants become the many different types of cells found in a mature plant This is achieved by a selective response to chemical signals both from neighbouring cells and distant tissues It is these responses that shape the plant its time of flowering the sex of its flowers its length of survival or progress to senescence and death How do plants achieve this This treatise addresses this question using well chosen examples to illustrate the concept of target cells The authors discuss how each cell has the ability to discriminate between different chemical signals determining which it will respond to and which it will ignore The regulation of gene expression through signal perception and signal transduction is at the core of this selectivity and the

Target Cell concept This volume will serve as a valuable reference for all researchers working in the field of plant developmental biology **Science in Orbit** ,1988 **Fundamentals of Space Biology** Gilles Clément,K.

Slenzka,2006-10-28 Fundamentals of Space Biology is the third textbook addressing Space Life Sciences in this Space Technology Library series The first of these books focused on the psychological and psychiatric issues that affect people who live and work in space Volume 16 Space Psychology and Psychiatry The second book described the physiological and medical issues of living in a space environment Volume 17 Fundamentals of Space Medicine The objective of this third book was to review the effects of spaceflight on less complex biological systems from single cells to animals and plants Indeed to better understand the changes at the function level it is necessary to comprehend the changes at cellular and tissue levels Studies of cell cultures for example allow the investigation of the indirect effects of gravity i e those which occur not because of changes in the stimulation of dedicated gravity sensing organs but because of the new physical properties resulting from the reduction in gravitational force within the cell *Heat and Mass Transfer* ,2019-09-11 Heat and mass transfer is the core science for many industrial processes as well as technical and scientific devices Automotive aerospace power generation both by conventional and renewable energies industrial equipment and rotating machinery materials and chemical processing and many other industries are requiring heat and mass transfer processes Since the early studies in the seventeenth and eighteenth centuries there has been tremendous technical progress and scientific advances in the knowledge of heat and mass transfer where modeling and simulation developments are increasingly contributing to the current state of the art Heat and Mass Transfer Advances in Science and Technology Applications aims at providing researchers and practitioners with a valuable compendium of significant advances in the field *Forthcoming Books* Rose Arny,2003-04 **Diatom Gliding Motility** Stanley A. Cohn,Kalina M. Manoylov,Richard Gordon,2021-08-17 DIATOM GLIDING MOTILITY Moving photosynthetic organisms are still a great mystery for biologists and this book summarizes what is known and reports the current understanding and modeling of those complex processes The book covers a broad range of work describing our current state of understanding on the topic including historic knowledge and misconceptions of motility evolution of diatom motility diatom ecology cell biology and biochemistry of diatom motility anatomy of motile diatoms observations of diatom motile behavior diatom competitive ability unique forms of diatom motility as found in the genus Eunotia and models of motility This is the first book attempting to gather such information surrounding diatom motility into one volume focusing on this single topic Readers will be able to gather both the current state of understanding on the potential mechanisms and ecological regulators of motility as well as possible models and approaches used to help determine how diatoms accomplish such varied behaviors as diurnal movements accumulation into areas of light niche partitioning to increase species success Given the fact that diatoms remain one of the most ecologically crucial cells in aquatic ecosystems we hope that this volume will act as a springboard towards future research into diatom motility and even better resolution of some of the issues in

motility Audience Diatomists phycologists aquatic ecologists cellular physiologists environmental biologists biophysicists
diatom nanotechnologists algal ecologists taxonomists *NASA Technical Memorandum* ,1990 **Ethological dynamics**
in diorama environments Toshiyuki Nakagaki,Audrey Dussutour,Takuji Ishikawa,Laurence Wilson,2024-01-18

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