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Life Sciences P2 February March 2015

Frank M. Dunnivant, Elliot Anders



Life Sciences P2 February March 2015:

Investigations on Signal Transduction Processes Utilizing Small Chemical Probes Lihe Zhang, 2024-05-30 This book presents a major research program investigating signal transduction processes utilizing small molecule compound probes. The program was launched by the National Natural Science Foundation of China during the 11th Five Year Plan period which was started in October 2008 and concluded at the end of 2016. It first summarizes the overall scientific objectives and the current situation of signal transduction research in China and the international frontier. Based on the new method and technologies achieved in small molecule compound probes, this book illustrates key molecular events in signal transduction processes in living systems and reveals the regulation of signal transduction. This helps to explore new ideas and strategies for the diagnosis and prevention of serious diseases. In addition, via interdisciplinary cooperation of biology and chemistry, this book solves some key scientific problems in biology and promotes recent developments in these fields. These areas include the generation of small molecule compound probes for studying signal transduction and development of detecting methods for gathering information of biomacromolecule activities. Given its scope, the book is of interest to researchers who work in organic chemistry, natural product chemistry, medicinal chemistry, analytical chemistry, and physical chemistry. It also promotes the multidisciplinary collaboration among chemistry, medicine, materials science, and biology.

Curiosity And Passion For Science And Art Uwe B Sleytr, 2016-07-04 This book describes the accomplishments of a curious and imaginative scientist and his endeavours to translate or even to extrapolate scientific insights into the world of art. The science section in this volume concerns studies on S layers, a very important class of proteins found on the surface of numerous Bacteria and nearly all Archaea. S layer proteins are one of the most abundant biopolymers on our planet and assemble into the simplest type of biological membrane. Moreover, they are unique building blocks and patterning elements for the production of complex supramolecular structures and nanoscale devices in nanobiotechnology, molecular nanotechnology, synthetic biology, biomimetics, and nanomedicine. In the second part of this book, the author goes on to passionately describe how his scientific activities stimulated his art work, which in particular concerns the visualization of results and the potential of synthetic biology and evolutionary events induced by genetic manipulations. Most importantly, the engagement in art allowed him to leave the rather curtailed canon of science and reach a mental state of unlimited freedom of thoughts. Mask-like sculptures are used as examples to visualize the intersection between science and art, and in particular, the unpredictability and mystery of scientific visions.

Oscillations, Waves and Patterns in the Physical and Life Sciences Rabih Sultan, Nobuhiko J. Suematsu, Federico Rossi, Istvan Lagzi, 2022-11-21

Neuronal Self-Defense: Compensatory Mechanisms in Neurodegenerative Disorders Rosanna Parlato, Pier Giorgio Mastroberardino, 2016-02-26 Neurodegenerative disorders are characterized by the progressive loss of specific populations of neurons with consequent deterioration of brain function and dramatic impact on human behavior. At present, there are no effective cures for neurodegenerative diseases. Because

unambiguous diagnosis is possible only after manifestation of symptoms when a large proportion of neurons has been already lost therapies are necessarily confined to alleviation of symptoms Development of cures halting the disease course is hampered by our rudimentary understanding of the etiopathology Most neurodegenerative disorders are sporadic and age related and even for those of known genetic origin the mechanisms influencing disease onset and progression have not been fully characterized The different diseases however share important similarities in the mechanisms responsible for neuronal loss which is caused by a combination of endogenous and exogenous challenges Trophic deprivation oxidative stress accumulation of abnormal protein aggregates and bioenergetics defects have been described in most if not all neurodegenerative disease To counterbalance these noxious stimuli cells deploy at least during the initial pathogenic states intrinsic neuroprotective responses These are general compensatory mechanisms common to several neurodegenerative conditions which reprogram cellular physiology to overcome stress Adaptation includes strategies to optimize energetic resources for instance reduction of rRNA synthesis to repress translation suppression of transcription and bioenergetics and metabolic redesign Additional mechanisms include potentiation of antioxidant capacity induction of endoplasmic reticulum ER stress and activation of protein quality control systems and autophagy Ineffective execution of these compensatory strategies severely threatens cellular homeostasis and favors onset of pathology Therefore a better understanding of these buffering mechanisms and of their interconnections may help to devise more effective therapeutic tools to prolong neuronal survival and activity independently of the original genetic mutations and stress insults This Research Topic focuses on the initial compensatory responses protecting against failure of those mechanisms that sustain neuronal survival and activity The collection intends to summarize the state of the art in this field and to propose novel research contributes with the ultimate goal of inspiring innovative studies aimed to contrast progression of neurodegenerative diseases

Calculus for The Life Sciences Sebastian J. Schreiber, Karl J. Smith, Wayne M. Getz, 2017-10-09 In this much anticipated Calculus for Life Sciences Binder Ready Version the authors present the basic canons of first year calculus but motivated through real biological problems The two main goals of the text are to provide students with a thorough grounding in calculus concepts and applications analytical techniques and numerical methods and to have students understand how when and why calculus can be used to model biological phenomena Both students and instructors will find the book to be a gateway to the exciting interface of mathematics and biology This text is an unbound binder ready edition

A Midterm Assessment of Implementation of the Decadal Survey on Life and Physical Sciences Research at NASA National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Aeronautics and Space Engineering Board, Committee on a Midterm Assessment of Implementation of the Decadal Survey on Life and Physical Sciences Research at NASA, 2018-06-09 The 2011 National Research Council decadal survey on biological and physical sciences in space Recapturing a Future for Space Exploration Life and Physical Sciences Research for a New Era was written

during a critical period in the evolution of science in support of space exploration The research agenda in space life and physical sciences had been significantly descoped during the programmatic adjustments of the Vision for Space Exploration in 2005 and this occurred in the same era as the International Space Station ISS assembly was nearing completion in 2011 Out of that period of change Recapturing a Future for Space Exploration presented a cogent argument for the critical need for space life and physical sciences both for enabling and expanding the exploration capabilities of NASA as well as for contributing unique science in many fields that can be enabled by access to the spaceflight environment Since the 2011 publication of the decadal survey NASA has seen tremendous change including the retirement of the Space Shuttle Program and the maturation of the ISS NASA formation of the Division of Space Life and Physical Sciences Research and Applications provided renewed focus on the research of the decadal survey NASA has modestly regrown some of the budget of space life and physical sciences within the agency and engaged the U S science community outside NASA to join in this research In addition NASA has collaborated with the international space science community This midterm assessment reviews NASA s progress since the 2011 decadal survey in order to evaluate the high priority research identified in the decadal survey in light of future human Mars exploration It makes recommendations on science priorities specifically those priorities that best enable deep space exploration

Calculus for the Life Sciences: A Modeling Approach James L. Cornette, Ralph A. Ackerman, 2019-05-25 Calculus for the Life Sciences is an entire reimagining of the standard calculus sequence with the needs of life science students as the fundamental organizing principle Those needs according to the National Academy of Science include the mathematical concepts of change modeling equilibria and stability structure of a system interactions among components data and measurement visualization and algorithms This book addresses in a deep and significant way every concept on that list The book begins with a primer on modeling in the biological realm and biological modeling is the theme and frame for the entire book The authors build models of bacterial growth light penetration through a column of water and dynamics of a colony of mold in the first few pages In each case there is actual data that needs fitting In the case of the mold colony that data is a set of photographs of the colony growing on a ruled sheet of graph paper and the students need to make their own approximations Fundamental questions about the nature of mathematical modeling trying to approximate a real world phenomenon with an equation are all laid out for the students to wrestle with The authors have produced a beautifully written introduction to the uses of mathematics in the life sciences The exposition is crystalline the problems are overwhelmingly from biology and interesting and rich and the emphasis on modeling is pervasive An instructor s manual for this title is available electronically to those instructors who have adopted the textbook for classroom use Please send email to textbooks@ams.org for more information Online question content and interactive step by step tutorials are available for this title in WebAssign WebAssign is a leading provider of online instructional tools for both faculty and students

Transition Point: From Steam to the Singularity Sean A. Culey, 2018-11-06 We live in disruptive times The world is

changing faster than ever before leaving people dazed businesses struggling economies floundering and societies fracturing But why Transition Point is the result of over five years of research to establish the answer a breathtaking tale of freedom unintended consequences and disruptive technologies that starts 1000 years ago and ends up in the second half of the 21st Century Starting with an examination into the drivers of technological change and the social economic and political factors that both enable or suppress it Transition Point explains why industrialisation happened where and when it did why progress comes in waves and why the technologies in the current wave such as robotics blockchain and AI are likely to be the most disruptive of all It then addresses the million dollar question what's next What impact will this wave have on our businesses our economies and most importantly on our society Culey explores how our current trajectory could result in a new golden age but also how it is just as likely to result in a digital dictatorship of compliance and constant surveillance Finally he explains why we may soon see Homo sapiens role as the dominant species come to an end As Klaus Schwab founder of the World Economic Forum stated We stand on the brink of a technological revolution that will fundamentally alter the way we live work and relate to one another In its scale scope and complexity the transformation will be unlike anything humankind has experienced before Transition Point explains why this is happening what it means and why the decisions we make now will prove to be critical

Cognitive Event-Related Potentials in Psychopathology: New Experimental and Clinical Perspectives Salvatore Campanella, Pierre Maurage, 2017-01-12 A common feature of many psychopathological states going from anxiety depression to schizophrenia or addictions is to show cognitive alterations These cognitive deficits clearly impact on the onset of clinical symptoms Therefore recent studies showed that increasing cognitive skills have a positive effect on patients quality of life and decrease the severity of clinical symptoms However a main problem consists in the fact that some minor cognitive restrictions even if not observable at the behavioral level may induce a state of vulnerability that can in some circumstances lead the patients to relapse For instance in alcohol dependence it is well known that despite detoxification cure psychological intervention and medication 50 to 90% of patients resume in alcohol consumption within 1 year post detoxification cure In this view it could be really important to find biological markers for even minor cognitive alterations that can help clinicians to identify which patients are more at risk to relapse in order to improve treatment through best suited medication and specialized programs of cognitive rehabilitation In this topic our aim is to illustrate how and why cognitive event related potentials ERPs may help in different psychopathological populations to adapt the treatment of individual patients on the basis of their specific neuro cognitive alterations *Failures in Health and Social Care* Neil Small, 2023-06-30 This thought provoking book examines breakdowns in the quality of health and social care over the past decade exploring governance failures and the challenges of achieving lasting change Failures in care have been manifest across many different settings Drawing on examples from care of older people and end of life care as well as from learning disabilities mental health maternity care and services for vulnerable children Neil Small shows that the same sorts of

problems are evident across these settings and that they are occurring up to the present day. Discussing culture change alongside levels of funding and the impact of prevailing political and economic orthodoxies and through the lens of shifts of trust in society, this book argues that the concept of culture must be cast much wider than organisational and professional cultures if change is to be secured. This book engages with how to improve quality of care in the NHS and welfare systems more generally. Its case examples are from the UK but the issues of governance, culture change and shifts in the social contract that failures illuminate have an international relevance. It is important reading for those with an interest in health, social care, political science and sociology.

Emerging Mechanisms in Purinergic Signaling: from Cell Biology to Therapeutic Perspectives Rosa Gomez-Villafuertes, Elena Adinolfi, 2020-08-27

Geomicrobes: Life in Terrestrial Deep Subsurface Malin Bomberg, Lasse Ahonen, 2017-07-17. The deep subsurface is in addition to space one of the last unknown frontiers to human kind. A significant part of life on Earth resides in the deep subsurface, hiding great potential of microbial life of which we know only little. The conditions in the deep terrestrial subsurface are thought to resemble those of early Earth, which makes this environment an analog for studying early life in addition to possible extraterrestrial life in ultra-extreme conditions. Early microorganisms played a great role in shaping the conditions on the young Earth. Even today, deep subsurface microorganisms interact with their geological environment, transforming the conditions in the groundwater and on rock surfaces. Essential elements for life are richly present but in difficultly accessible form. The elements driving the microbial deep life is still not completely identified. Most of the microorganisms detected by novel molecular techniques still lack cultured representatives. Nevertheless, using modern sequencing techniques and bioinformatics, the functional roles of these microorganisms are being revealed. We are starting to see the differences and similarities between the life in the deep subsurface and surface domains. We may even begin to see the function of evolution by comparing deep life to life closer to the surface of Earth. Deep life consists of organisms from all known domains of life. This Research Topic reveals some of the rich diversity and functional properties of the great biomass residing in the deep dark subsurface.

Book of Abstracts of the 66th Annual Meeting of the European Association for Animal Production EAAP scientific committee, 2023-09-04. This Book of Abstracts is the main publication of the 66th Annual Meeting of the European Federation for Animal Science 2015 in Warsaw, Poland. It contains abstracts of the invited papers and contributed presentations. The meeting addressed subjects relating to science and innovation. Important problems were also discussed during the sessions of EAAP's nine Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems.

Health and Fitness for Life Raschel Larsen, 2022-09-01. Health and Fitness for Life is an introductory college textbook that shows students how to improve their habits related to physical activity, eating, or stress management. With a focus on real world activities and practices for increasing overall wellness, this book includes grounded examples of practical health-based situations and healthy choices from diverse

perspectives that will give students strategies for identifying and improving areas of their health This book covers the basics of exercise and healthy living as well as more advanced topics including Cardiorespiratory fitness Muscular strength and endurance Flexibility training and mobility Body composition Nutrition planning and guidance Stress management Chronic and infectious disease Substance use and abuse Environmental health This book's data driven study of health and fitness is goal oriented instructive and encouraging for students of varying backgrounds and states of wellness The approach in these pages creates relevant links between guidance from official health organizations and everyday life There's something for everyone here whether you're looking to improve habits related to physical activity eating or stress management or to better understand your place in the world as a healthy individual Written by community college health faculty Health and Fitness for Life blends down to earth instructional text with numerous examples of relevant situations and outcomes for students from all demographics

Molecular Advances in Diagnosis and Treatment of CNS Tumors Liam Chen, Ming-Tseh Lin, Zhaohui Zhang, 2020-12-09 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org/about/contact

Management, 1990 **Advances in the Development of Artificial Metalloenzymes** Tatjana N. Parac-Vogt, Andrea Erxleben, Gerhard Schenk, Rajeev Prabhakar, 2019-11-05 Reactions catalyzed by metalloenzymes have great potential for applications in the biotechnology and pharmaceutical industries While only a few of these enzymes have yet been used in such applications in the last few decades numerous efficient selective environmentally friendly and economical synthetic analogues have been described including supramolecular polymeric nanoparticulate and lowmolecular weight organometallic complexes and metal organic frameworks In this Research Topic we present a collection of original research and review articles that show significant recent advances made in the rational design of such artificial metalloenzymes

Memory and Landscape Kenneth L. Pratt, Scott A. Heyes, 2022-10-18 The North is changing at an unprecedented rate as industrial development and the climate crisis disrupt not only the environment but also long standing relationships to the land and traditional means of livelihood Memory and Landscape Indigenous Responses to a Changing North explores the ways in which Indigenous peoples in the Arctic have adapted to challenging circumstances including past cultural and environmental changes In this beautifully illustrated volume contributors document how Indigenous communities in Alaska northern Canada Greenland and Siberia are seeking ways to maintain and strengthen their cultural identity while also embracing forces of disruption Indigenous and non Indigenous contributors bring together oral history and scholarly research from disciplines such as linguistics archaeology and ethnohistory With an emphasis on

Indigenous place names this volume illuminates how the land and the memories that are inextricably tied to it continue to define Indigenous identity The perspectives presented here also serve to underscore the value of Indigenous knowledge and its essential place in future studies of the Arctic Contributions by Vinnie Baron Hugh Brody Kenneth Buck Anna Bunce Donald Butler Michael A Chenlov Aron L Crowell Peter C Dawson Martha Dowsley Robert Drozda Gary Holton Colleen Hughes Peter Jacobs Emily Kearney Williams Igor Krupnik Apayo Moore Murielle Nagy Mark Nuttall Evon Peter Louann Rank William E Simeone Felix St Aubin and Will Stolz Pollutant Fate and Transport in Environmental Multimedia Frank M. Dunnivant, Elliot Anders, 2019-05-07 Bridges the gaps between regulatory engineering and science disciplines in order to comprehensively cover pollutant fate and transport in environmental multimedia This book presents and integrates all aspects of fate and transport chemistry modeling various forms of assessment and the environmental legal framework It approaches each of these topics initially from a conceptual perspective before explaining the concepts in terms of the math necessary to model the problem so that students of all levels can learn and eventually contribute to the advancement of water quality science The first third of Pollutant Fate and Transport in Environmental Multimedia is dedicated to the relevant aspects of chemistry behind the fate and transport processes It provides relatively simple examples and problems to teach these principles The second third of the book is based on the conceptual derivation and the use of common models to evaluate the importance of model parameters and sensitivity analysis complex equation derivations are given in appendices Computer exercises and available simulators teach and enforce the concepts and logic behind fate and transport modeling The last third of the book is focused on various aspects of assessment toxicology risk benefit cost and life cycle and environmental legislation in the US Europe and China The book closes with a set of laboratory exercises that illustrate chemical and fate and transport concepts covered in the text with example results for most experiments Features more introductory material on past environmental disasters and the continued need to study environmental chemistry and engineering Covers chemical toxicology with various forms of assessment United States European and Chinese regulations and advanced fate and transport modeling and regulatory implications Provides a conceptual and relatively simple mathematical approach to fate and transport modeling yet complex derivations of most equations are given in appendices Integrates the use of numerous software packages pC pH EnviroLab Simulators Water Wastewater and Global Issues and Fate 2016 Contains numerous easy to understand examples and problems along with answers for most end of the chapter problems and simulators for answers to fate and transport questions Includes numerous companion laboratory experiments with EnviroLab Requiring just a basic knowledge of algebra and first year college chemistry to start Pollutant Fate and Transport in Environmental Multimedia is an excellent textbook for upper level undergraduate and graduate faculty and students studying environmental engineering and science **Astronomy in the Origins of Religion** Cometan, 2020-09-15 Official title Do the prehistoric interactions between astronomy and religion form a distinct religious tradition In the

dissertation for his Master s of Arts degree from the University of Central Lancashire Cometan introduced and thoroughly explored his theory of the existence of the oldest religious tradition based on astronomical observation which he titles the Astronic tradition or Astronicism In this work which received a Distinction Grade of 87 following its examination Cometan discovers that astronomy and religion were indeed intertwined in prehistoric and ancient times Through archaeological evidence Cometan makes the case for the existence of an Astronic religious tradition stretching back to the Upper Palaeolithic period of the Stone Age some 40 000 years ago Key ideas of Cometan s dissertation work include astromorphism astrolatry astroglyphs astromancy astronomical religion and the theory of an astronomical Urreligion an original or primordial religion

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