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Organellar Ion Channels and Transporters
MDPI
Based on the collective inputs of 23 United Nations agencies and convention secretariats, this Report offers a global overview of the state of the world's freshwater resources. It is part of an on-going assessment process to develop policies and help with their implementation as well as to measure any progress towards achieving sustainable use of .....

Cryocoolers
Springer Nature
The rapid development of

nanoscience enables a technology revolution that will soon impact virtually every facet of the water sector. Yet, there is still too little understanding of what nanoscience and nanotechnology is, what can it do and whether to fear it or not, even among the educated public as well as scientists and engineers from other disciplines. Despite the numerous books and textbooks available on the subject, there is a gap in the literature that bridges the space between the synthesis (conventional and more greener methods) and use (applications in the drinking water production, wastewater treatment and environmental remediation fields) of nanotechnology on the one hand and its potential environmental implications (fate and transport of nanomaterials, toxicity, Life Cycle Assessments) on the other. Nanotechnology for Water and Wastewater Treatment explores these topics with a broad-based multidisciplinary scope and can be used by engineers and scientists outside the field and by students at both undergraduate and post graduate level.

Patent and Trademark Office Notices Springer Science & Business Media There is arguably no field in greater need of a comprehensive handbook than computer engineering. The unparalleled rate of technological advancement, the explosion of computer applications, and the now-in-progress migration to a wireless world have made it difficult for engineers to keep up with all the developments in specialties outside their own

Brake Design and Safety Startup Evolution Curve from Idea to Profitable and Scalable Business

In Epiblast Stem Cells: Methods and Protocols, expect researchers in the field provide a detailed collection of techniques and protocols useful to the study of the biology of the pluripotent epiblast. These include methods and techniques used to study epiblast development in different amniotes. This collection brings together contributions from the fields of embryology, stem cell biology and developmental biology together, providing a single volume with detailed procedures for the isolation and culture of epiblasts at different stages of development, and techniques for the study of differentiation into specific lineages. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, a complete list of the necessary materials and reagents, detailed laboratory protocols, and extensive notes providing

suggestions on troubleshooting and how to overcome common difficulties. Comprehensive and cutting-edge, Epiblast Stem Cells: Methods and Protocols serves as a resource to individuals interested in studying the biology of pluripotent cells.

Human Pluripotent Stem Cells Humana Press

Cephalopod Culture is the first compilation of research on the culture of cephalopods. It describes experiences of culturing different groups of cephalopods: nautiluses, sepioids (Sepia officinalis, Sepia pharaonis, Sepiella inermis, Sepiella japonica Euprymna hyllebergi, Euprymna tasmanica), squids (Loligo vulgaris, Doryteuthis opalescens, Sepioteuthis lessoniana) and octopods (Amphioctopus aegina, Enteroctopus megalocyathus, Octopus maya, Octopus mimus, Octopus minor, Octopus vulgaris, Robsonella fontaniana). It also includes the main conclusions which have been drawn from the research and the future challenges in this field. This makes this book not only an ideal introduction to cephalopod culture, but also a valuable resource for those already involved in this topic.

Fertigation Elsevier Health Sciences

Neural stem cells offer a valuable model system for delineating the cellular and developmental processes in normal and diseased states of the central nervous system. In particular, neural

stem cells have huge potential in regenerative medicine, owing to their expansion capability in culture and the ability to differentiate into multiple sub-neural lineages. Neural Stem Cell Assays provides a detailed and comprehensive review of the basic methods for neural stem cell cultures. Including an overview of progress in the field over the past decade, Neural Stem Cell Assays is a one-stop reference for consistent methods and reliable tools that span the entire assay work flow, from isolation or generation of neural stem cells to characterization, manipulation and final application of neural stem cells in disease paradigms such as Parkinson's disease, multiple sclerosis and amyotrophic lateral sclerosis. An excellent source of information for academic, pharmaceutical and biotechnology researchers who are new to the neural stem cell field, Neural Stem Cell Assays is an invaluable to experienced users who wish to integrate newly developed tools and technologies into their workflow. The book also covers important course material for students at the undergraduate and graduate level who are learning the basics of neural stem cell cultures, and differentiation to sub-neural lineages.

Nanocatalysis Now Pub

This book is a printed edition of the Special Issue "Reducing Dietary Sodium and Improving Human Health" that was published in Nutrients

Epiblast Stem Cells Springer Science &

Business Media
KLR650 (2008-2012), *Syncope in Spanish and Portuguese* Trafford Publishing
This volume explores the latest techniques and workflow for the analysis of single cells metabolism. The chapters in this book cover topics such as the development of mass spectrometry-based single cell approaches, Pico-ESI-MS for single-cell metabolomics analysis; laser capture microdissection; ambient single cell metabolite profile (DESI and LAESI); and MALDI-MS methodology, quantum dots for quantitative cytology to study metabolic heterogeneity of single cells. Written in the highly successful I series format, the chapters consist of introductions to the topic, lists of the necessary materials and reagents, step-by-step guidelines, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls. Comprehensive and authoritative, Single Cell Metabolism: Methods and Protocols is a valuable resource for any researcher and scientist interested in learning more about this field. .

Nanotechnology for Water and Wastewater Treatment John Wiley & Sons
Receptor Tyrosine Kinase: Structure, Functions and Role in Human Disease, for the first time, systematically covers the shared structural and functional features of the RTK family. Receptor Tyrosine Kinases (RTKs) play critical roles in embryogenesis, normal physiology and several diseases. And over the last decade they have become the Number 1 targets of cancer

drugs. To be able to conduct fundamental research or to attempt to develop pharmacological agents able to enhance or intercept them, it is essential first to understand the evolutionary origin of the 58 RTKs and their roles in invertebrates and in humans, as well as downstream signaling pathways. The assembly of chapters is written by experts and underscores commonalities between and among the RTKs. It is an ideal companion volume to The Receptor Tyrosine Kinase: Families and Subfamilies, which proceeds, family by family through all of the specific subfamilies of RTKs, along with their unique landmarks.

Marketing Springer Science & Business Media

Quantities, Symbols, Units, and Abbreviations in the Life Sciences is a reliable compilation of the most up-to-date recommendations for using units, symbols, abbreviations, and acronyms in scientific publications across the biological sciences. Drawing on the authority of the various nomenclature committees of the many international societies in the biosciences, as well as on the editors of prestigious scientific journals, and on eminent individuals active in scientific publishing, this essential reference provides authors and editors with easy access to the authoritative usage of the universally accepted terms they need for clear scientific communication.

The compiled symbols, units, and abbreviations are defined, with commentary and some etymological background frequently provided. The diverse scope of disciplines treated includes biochemistry, molecular biology, medicine, genetics, immunology, and virology, plus appropriate sections on mathematics, physics, and chemistry.

Operating Systems for Supercomputers and High Performance Computing

Merriam-Webster

Regenerative medicine – stem cell and gene-based therapy – offers a new approach for restoring function of damaged organs and tissues. This is the first book to cover the major new aspects and field of regenerative medicine. This title is therefore a timely addition to the literature. It brings together the major approaches to regenerative medicine in one text, which ensures that techniques learnt in one discipline are disseminated across other areas of medicine.

Springer Nature

"New! An easy-to-use, alphabetical guide for creating rhymes. Features 55,000 headwords with pronunciations at every entry. Lists arranged alphabetically and by number of syllables, with thousands of cross-references to guide readers to correct entries."

Kawasaki KLR650 2008-2012

Springer Nature

This book serves as an introduction to cryocooler technology and describes the

principle applications of cryocoolers across a broad range of fields. It covers the specific requirements of these applications, and describes how the advantages and disadvantages of different cryocooler systems are taken into consideration. For example, Stirling coolers tend to be used only in space applications because of their high coefficient of performance, low weight and proven reliability, whilst Gifford-McMahon coolers are used for ground applications, such as in cryopumps and MRI shield cooling applications. Joule-Thomson cryocoolers are used in missile technology because of the fast cool down requirements. The cryocooler field is fast developing and the number of applications are growing because of the increasing costs of the cryogens such as Helium and Neon. The first chapter of the book introduces the different types of cryocoolers, their classification, working principles, and their design aspects, and briefly mentions some of the applications of these systems. This introductory chapter is followed by a number of contributions from prominent international researchers, each describing a specific field of application, the cooling requirements and the cryocooler systems employed. These areas of application include gas liquefaction, space technology, medical science, dilution refrigerators, missile systems, and physics

research including particle accelerators. Each chapter describes the cooling requirements based on the end use, the approximate cooling load calculations, the criteria for cryocooler selection, the arrangement for cryocooler placement, the connection of the cooler to the object to be cooled, and includes genuine case studies. Intended primarily for researchers working on cryocoolers, the book will also serve as an introduction to cryocooler technology for students, and a useful reference for those using cryocooler systems in any area of application.

Arabic Information Retrieval IWA Publishing

During the past decade, a wide range of scientific disciplines have adopted the use of adipose-derived stem/stromal cells (ASCs) as an important tool for research and discovery. In Adipose-Derived Stem Cells: Methods and Protocols, experts from the field, including members of the esteemed International Federation of Adipose Therapeutics and Science (IFATS), provide defined and established protocols in order to further codify the utilization of these powerful and accessible cells. With chapters organized around approaches spanning the discovery, pre-clinical, and clinical processes, much of the emphasis is placed on human ASC, while additional techniques involving small and large animal

species are included. As a volume in the highly successful Methods in Molecular BiologyTM series, the detailed contributions include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and notes on troubleshooting and avoiding known pitfalls. Comprehensive and cutting-edge, Adipose-Derived Stem Cells: Methods and Protocols serves as a vital reference text for experienced researchers as well as new students on the path to further exploring the incredible potential of ASCs.

Cephalopod Culture Berghahn Books

It's like an IKEA guide for building your next startup. Based on research of 1,447 startups and highly recommended by more than 30 international experts. It's not a book you read in a day, but like a manual you take with you and consult from time to time. Every startup founder should have it on the desk! SHOWS THE WAY Donatas Jonikas (Ph.D.) provides clear and actionable guidelines for what to do next if you want to transform your innovative ideas into profitable and scalable business: * What should be done and why it is needed * Actionable steps and how to do it * Real case startup examples * References for further reading * Templates and swipe files for download SAVES YOUR TIME This step-by-step guide is designed for people who don't have time and want to take action right now. If this describes you, here is how you should use this book: * Choose one of the five startup development stages you are currently most interested in * Review the topics to get of what should be done in that stage * Review

the "how to do it" infographic at the beginning of the topic and follow the instructions COVERS ALL THAT'S NECESSARY The concept of Startup Evolution Curve has five stages with seven lessons (or tasks to be done) in each. This is a comprehensive manual with 35lessons on startup marketing strategy and implementation that covers: * Feasibility study * Hypotheses and experiments * Fundraising * Product launch * Growth hacking PROVIDES ADDITIONAL RESOURCES FOR FREE! * 20 templates and swipe files for download * Online video course on how to create an irresistible offer * Invitation to join the group of like-minded startup entrepreneurs

Fundamentals of Antimicrobial Pharmacokinetics and Pharmacodynamics Springer

Bernt Spiegel's The Upper Half of the Motorcycle was a best-selling motorcycling book in its original German with multiple editions and printings to its credit. Now translated into English, its provocative message is available to a wider audience. Spiegel's metaphor considers the rider and the motorcycle as a single unit, the rider being the upper half. Taking a multidisciplinary approach, the author draws on anthropology, psychology, biology, physics, and other disciplines to analyze the theory and function of the man-machine unit. Motorcycle riding is seen as a junction where people have created machines for personal transport and then become so adept at using them that the machine becomes like an extension of the rider themself. The ultimate goal for riders is the integration of the man-machine interface and subsequent skill development to the point of virtuosity.

Spiegel considers the various aspects of motorcycle riding that must be understood, practiced, and mastered before virtuosity can be attained. Many anecdotes, supplementary material, and in-depth treatment of specialized topics is contained in sidebars and footnotes. Numerous diagrams and photographs illustrate the book's principles allowing the reader to consider and develop their riding skill set.

Calcium Signaling

John Wiley & Sons

Exhibiting both homogeneous and heterogeneous catalytic properties ,nanocatalysts allow for rapid and selective chemicalt ransformations, with the benefits of excellent product yield andease of catalyst separation and recovery. This book reviews thecatalytic performance and the synthesis and characterization ofnanocatalysts, examining the current state of the art and pointingthe way towards new avenues of research. Moreover, the authorsdiscuss new and emerging applications of nanocatalysts andnanocatalysis, from pharmaceuticals to fine chemicals to renewableenergy to biotransformations . Nanocatalysis features contributions from leadingresearch groups around the world. These contributions reflect athorough review of the current literature as well as theauthors' first-hand experience designing and synt hesizingnanocataly sts and developing new applications for them. Thebook's nineteen chapters offer a broad persp

ective,covering: Nanocatalysis for carbon-carbon and carbon-heteroatom couplingreactions Nanocatalysis for various organic transformations in finechemical synthesis Nanocatalysis for oxidation, hydrogenation, and other relatedreactions Nanomaterial-based photocatalysis and biocatalysis Nanocatalysts to produce non-conventional energy such ashydrogen and biofuels Nanocatalysts and nano-biocatalysts in the chemicalindustry Readers will also learn about the latest spectroscopic andmicroscopy tools used in advanced characterization methods thatshed new light on nanocatalysts and nanocatalysis. Moreover, theauthors offer expert advice to help readers develop strategies toimprove catalytic performance. Summarizing and reviewing all the most important advances innanocatalysis over the last two decades, this book explains themany advantages of nanocatalysts over conventional homogeneous andheterogeneous catalysts, providing the information and guidanceneeded for designing green, sustainable catalytic processes.

Market Investigations
CRC Press
Almost daily, new technologies are being presented that move the field of human pluripotent stem cell research towards a future that may yield highly-effective, personalized medical treatments. Three enabling technologies at hand for human PSCs are 1) directed reprogramming of somatic cells, which eliminate many of the ethical issues

associated with the derivation and use of human PSCs, increase genetic diversity of the available human PSC lines, and give rise to better in vitro human disease models; 2) the discovery that a Rho-associated protein Kinase (ROCK) inhibitor allows for efficient single cell passaging and cryopreservation, increasing the efficiency and reliability of hPSC culture; and 3) defined, animal-component-free media, which lay the groundwork for simplified scale-up for therapeutic applications, differentiation protocols, and toxicology screens. The aforementioned technologies can be found in Human Pluripotent Stem Cells: Methods and Protocols, a compilation of 33 detailed protocols in six categories of PSC research that cover laboratory essentials and the derivation of new PSC lines, including induced PSC lines, as well as their growth, maintenance, characterization, genetic manipulation, and differentiation. Written in the successful Methods in Molecular BiologyTM series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and notes on troubleshooting and avoiding known pitfalls. Authoritative and accessible, Human Pluripotent Stem Cells: Methods and Protocols serves as an ideal guide to scientists conducting their own pluripotent cell research programs and makes great strides towards furthering human knowledge and, ultimately, improving the human condition.

Single Cell Metabolism

Haynes Manuals N. America, Incorporated

Arabic Information Retrieval reviews Arabic IR including the nature of the Arabic language, the techniques used for pre-processing the language, the

latest research in Arabic IR in different domains, and the open areas in Arabic IR.