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Molecular Biology of the Cell (MBOC)

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Molecular Biology of the Cell (MBOC) is an online journal published twice monthly and owned by the American Society for Cell Biology (ASCB). Unredacted accepted manuscripts are freely accessible immediately through MBOC In Press .

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1 Cell Biology Program, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, New York 10065, USA. Michael_Overholtzer@msk.harvard.edu; PMID: 18784728 DOI: 10.1038/nrm2504 Abstract For decades, authors have described unusual cell structures, referred to as cell-in-cell structures, in which whole cells are found in the cytoplasm of ...

The Problems Book helps students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work by introducing the experimental foundation of cell and molecular biology. Each chapter reviews key terms, tests for understanding basic concepts, and poses research-based problems. The Problems Book has be

Physical Biology of the Cell is a textbook for a first course in physical biology or biophysics for undergraduate or graduate students. It maps the huge and complex landscape of cell and molecular biology from the distinct perspective of physical biology. As a key organizing principle, the proximity of topics is based on the physical concepts that

The much-anticipated 3rd edition of Cell Biology delivers comprehensive, clearly written, and richly illustrated content to today's students, all in a user-friendly format. Relevant to both research and clinical practice, this rich resource covers key principles of cellular function and uses them to explain how molecular defects lead to cellular dysfunction and cause human disease. Concise text and visually amazing graphics simplify complex information and help readers make the most of their study time. Clearly written format incorporates rich illustrations, diagrams, and charts. Uses real examples to illustrate key cell biology concepts. Includes beneficial cell physiology coverage. Clinically oriented text relates cell biology to pathophysiology and medicine. Takes a mechanistic approach to molecular processes. Major new didactic chapter flow leads with the latest on genome organization, gene expression and RNA processing. Boasts exciting new content including the evolutionary origin of eukaryotes, super resolution fluorescence microscopy, cryo-electron microscopy, gene editing by CRISPR/Cas9, contributions of high throughput DNA sequencing to understand genome organization and gene expression, microRNAs, lncRNAs, membrane-shaping proteins, organelle-organelle contact sites, microbiota, autophagy, ERAD, motor protein mechanisms, stem cells, and cell cycle regulation. Features specially expanded coverage of genome sequencing and regulation, endocytosis, cancer genomics, the cytoskeleton, DNA damage response, necroptosis, and RNA processing. Includes hundreds of new and updated diagrams and micrographs, plus fifty new protein and RNA structures to explain molecular mechanisms in unprecedented detail.

The Encyclopedia of Cell Biology offers a broad overview of cell biology, offering reputable, foundational content for researchers and students across the biological and medical sciences. This important work includes 285 articles from domain experts covering every aspect of cell biology, with fully annotated figures, abundant illustrations, videos, and references for further reading. Each entry is built with a layered approach to the content, providing basic information for those new to the area and more detailed material for the more experienced researcher. With authored contributions by experts in the field, the Encyclopedia of Cell Biology provides a fully cross-referenced, one-stop resource for students, researchers, and teaching faculty across the biological and medical sciences. Fully annotated color images and videos for full comprehension of concepts, with layered content for readers from different levels of experience Includes information on cytokinesis, cell biology, cell mechanics, cytoskeleton dynamics, stem cells, prokaryotic cell biology, RNA biology, aging, cell growth, cell injury, and more in-depth linking to Academic Press/Elsevier content and additional links to outside websites and resources for further reading A one-stop resource for students, researchers, and teaching faculty across the biological and medical sciences

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Methods in Cell Biology, Volume 158, the latest release in this series, highlights new advances in the field, with this release covering How to orient cells in micro-cavities for high resolution imaging of cytokinesis and lumen formation, A body-on-a-chip (BOC) system for studying gut-liver interaction, Manipulating cultured mammalian cells for mitosis research, Live-cell FLIM-FRET using a commercially available system, A comparative analysis of methods to measure kinetochore-microtubule attachment stability, A workflow for visualizing human cancer biopsies using large-format electron microscopy, Isolation of stage-specific germ cells using facts in drosophila germlarium, Computational analysis of filament polymerization dynamics in cytoskeletal networks, and more. Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in the Methods in Cell Biology series Updated release includes the latest information in this area of study

Summary This book is a definitive overview of the current 'state of the art' in cell biology. It is based on papers presented by leading researchers at the Spanish Society for Cell Biology's XIV Congress - a Congress that strives to achieve scientific excellence. Each participant was asked to prepare a 'mini review' of current and likely future development in their area of research. This book is based on those reviews. As such, it is therefore an analysis of current and future trends. Key Features Contains contributions from some of the world's leading researchers. The book is multidisciplinary, covering almost all topics in cell biology: from basic to applied cell biology, and a wide variety of models: from in vitro to vivo models, ranging from fish to rodents and humans. Each 'mini review' is an easy-read piece, describing the state of the art on a topic with clear language and in a summary format. The mini review format makes the book attractive not only to readers involved in cell biology research and teaching, but also professionals from other disciplines and students. The book takes a truly multidisciplinary approach: it covers a wide array of topics, and the book reflects how cell biology interacts with other disciplines The Editors Jose Becerra is Professor of Cell Biology at the University of Malaga (Spain) since 1989. He has been Dean Secretary, Vice-Dean and Dean of the Faculty of Sciences of Malaga, and is now the Head of the Department of Cell Biology, Genetics and Physiology. From 2001 to 2003 he was the Director of the Andalusian Laboratory of Biology (LAB, Seville), which was converted in the Andalusian Centre for Developmental Biology (CMBD) under his term. He is a member of the Technical Committee of the National Stem Cell Bank since 2007, patron of the Board of Trustees of IMABIS Foundation (Mediterranean Institute for the Advance of Biotechnology and Health Research), coordinator of the Biomaterials and Tissue Engineering Area of the the Biomedical Research Networking Center in Bioengineering, Biomaterials and Nanomedicine (CIBER-BBN), and member of the Direction Committee of the CIBER-BBN. Leonor Santos-Ruiz is Senior Researcher of the CIBER-BBN network at the Andalusian Center for Nanomedicine and Biotechnology (BIONAND). She started her career studying the cellular and molecular basis of lower vertebrates' amazing ability for tissue regeneration, with a special attention to bone and spinal cord repair. Readership Cell biology academics and researchers Contents Introduction Dynamics of cell compartments The intracellular trafficking Cell signaling Autophagy, apoptosis and cell homeostasis Cell biology of aging Plant cell biology Methods in cell biology Applied cell biology Cell biology of cancer Cell therapies and tissue engineering Neurodegeneration and cell biology Nanotechnology and cell biology: challenges and opportunities*

Pain is the number one reason that people seek medical attention but pain is still under- and poorly-treated world-wide. The purpose of this book is to give an up to date picture of what causes pain, how pain becomes chronic and what pharmacological targets might be manipulated to alleviate acute and chronic pain. The book will cover a wide array of topics from gene polymorphisms to voltage-gated ion channels moving from cellular biology to whole animal physiology. Written by future leaders in the pain field Covers a wide range of targets Contains provocative ideas about the future direction of the pain field.

Computational methods are playing an ever increasing role in cell biology. This volume of Methods in Cell Biology focuses on Computational Methods in Cell Biology and consists of two parts: (1) data extraction and analysis to distill models and mechanisms, and (2) developing and simulating models to make predictions and testable hypotheses. Focuses on computational methods in cell biology Split into 2 parts--data extraction and analysis to distill models and mechanisms, and developing and simulating models to make predictions and testable hypotheses Emphasizes the intimate and necessary connection with interpreting experimental data and proposing the next hypothesis and experiment

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