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Molecular and Cellular Biology

1993

a textbook that integrates molecular biology biochemistry and cell biology into a unified course of study reflecting the shift in emphasis of molecular biology from a concentration on genes for their own sake to the application of molecular genetic studies to all areas of cell biology and bioche

Molecular and Cell Biology For Dummies

2009-06-02

your hands on study guide to the inner world of the cell need to get a handle on molecular and cell biology this easy to understand guide explains the structure and function of the cell and how recombinant dna technology is changing the face of science and medicine you discover how fundamental principles and concepts relate to everyday life plus you get plenty of study tips to improve your grades and score higher on exams explore the world of the cell take a tour inside the structure and function of cells and see how viruses attack and destroy them understand the stuff of life molecules get up to speed on the structure of atoms types of bonds carbohydrates proteins dna rna and lipids watch as cells function and reproduce see how cells communicate obtain matter and energy and copy themselves for growth repair and reproduction make sense of genetics learn how parental cells organize their dna during sexual reproduction and how scientists can predict inheritance patterns decode a cell s underlying programming examine how dna is read by cells how it determines the traits of organisms and how it s regulated by the cell harness the power of dna discover how scientists use molecular biology to explore genomes and solve current world problems open the book and find easy to follow explanations of key topics the life of a cell what it needs to survive and reproduce why molecules are so vital to cells rules that govern cell behavior laws of thermodynamics and cellular work the principles of mendelian genetics useful sites important events in the development of dna technology ten great ways to improve your biology grade

Molecular and cellular biology

1983

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 micrnas incrnas 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

Cell Biology E-Book

2016-11-01

a balanced treatment of both classical cell biology and modern molecular biology issues this second edition has been revised to update all scientific content and references developed to be a readable story that is accessible interesting and comprehensible for all introductory students the authors provide a balanced treatment of both classical cell biology and modern molecular biology issues students are further presented with historical and experimental approaches to explain the evolution of models and ideas and to provide actual data for each concept

Principles of Cell and Molecular Biology

1995

methods in neurosciences volume 3 quantitative and qualitative microscopy is a collection of papers that deals with microscopic techniques in statistical measures this volume describes microscopy using sophisticated stains and dyes to advance observation of tests and experiments section i describes autoradiography including micro chemical methods high resolution autoradiography and single or double label quantitative autoradiography for use in imaging of brain activity patterns or determining cerebral physiology section ii discusses the quantification of structures through statistical and computational methods including dynamic video imaging technology section iii explains the use of tracers toxins or dyes in tracing neuronal connections one paper addresses the use of small injections of axonally transported fluorescent tracers section iv explains staining technology such as using the silver impregnation method for frozen sections of human nervous tissue that are gathered from tissues preserved in formalin section v addresses freezing techniques and those using freeze fracture methods in neurobiology the text also discusses cryoprotection and other freezing methods to control ice crystals found in fixed or unfixed brain tissues section vi presents the combined and high resolution methods in polarization microscopy and microscopic investigations cellular biologists micro chemists and scientific researchers in the field of micro and cellular biology will appreciate this book

Cell Culture

2013-10-22

the encyclopedia of cell biology four volume set 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

Encyclopedia of Cell Biology

2015-08-07

written for undergraduate cell biology courses principles of cell biology second edition provides students with the formula for understanding the fundamental concepts of cell biology this practical text focuses on the underlying principles that illustrate both how cells function as well as how we study them it identifies 10 specific principles of cell biology and devotes a separate chapter to illustrate each the result is a shift away from the traditional focus on technical details and towards a more integrative view of cellular activity that is flexible and can be tailored to suit students with a broad range of backgrounds

Molecular and Cellular Biology

2014

in the ten year interval since the first edition of this volume went to press our knowledge of extracellular matrix ecm function and structure has enormously increased extracellular matrix and cell matrix interaction are now routine topics in the meetings and annual reviews sponsored by cell biology societies research in molecular biology has so advanced the number of known matrix molecules and the topic of gene structure and regulation that we wondered how best to incorporate the new material for example we deliberated over the inclusion of chapters on molecular genetics we decided that with judicious editing we could present the recent findings in molecular biology within the same cell biology framework that was used for the first edition using three broad headings what is extracellular matrix how is it made and what does it do for cells maintaining control over the review of literature on the subject of ecm was not always an easy task but we felt it was essential to production of a highly readable volume one compact enough to serve the student as an introduction and the investigator as a quick update on graduate the important recent discoveries the first edition of this volume enjoyed considerable success we had hoped the reader finds this edition equally useful siderable success we had hoped elizabeth vii contents introductory remarks 1 elizabeth d hay part i what is extracellular matrix chapter 1 collagen t f linsenmayer 1 introduction 7 2 the collagen molecule 8 2 1 triple helical domain s

Principles of Cell Biology

2014-10-21

renowned for its writing style and trendsetting art cell biology and genetics volume 1 international edition provides real world applications and helps you think critically about them the new edition offers a new learning roadmap in each chapter to help you gain a full understanding you will be able to focus on key concepts make connections to other concepts and see where the material is leading helpful learning tools like the section ending take home messages and the on page running glossary ensure that you will grasp key points carefully balancing accessibility and the level of detail the authors enable you to go beyond rote memorization and prepare you to make important decisions in life that require an understanding of biology and the process of science

Molecular and Cellular Biology

1968

quantitative methods are revolutionizing modern molecular and cellular biology groundbreaking technical advances are fueling the rapid expansion in our ability to observe as seen in multidisciplinary studies that integrate theory computation experimental assays and the control of microenvironments integrating new experimental and theoretical methods quantitative biology from molecular to cellular systems gives both new and established researchers a solid foundation for starting work in this field the book is organized into three sections fundamental concepts covers bold ideas that inspire novel approaches in modern quantitative biology it offers perspectives on evolutionary dynamics system design principles chance and memory and information processing in biology methods describes recently developed or improved techniques that are transforming biological research it covers experimental methods for studying single molecule biochemistry small angle scattering from biomolecules subcellular localization of proteins and single cell behavior it also describes theoretical methods for synthetic biology and modeling random variations among cells molecular and cellular systems focuses on specific biological systems where modern quantitative biology methods are making an impact it incorporates case studies of biological systems for which new concepts or methods are increasing our understanding examples include protein kinase at the molecular level the genetic switch of phage lambda at the regulatory system level and escherichia coli chemotaxis at the cellular level in short quantitative biology presents practical tools for the observation modeling design and manipulation of biological systems from the molecular to the cellular levels

Cell Biology of Extracellular Matrix

2013-11-11

cell biology is a field of biology that is concerned with the study of cellular structure and function using techniques such as cell culture microscopy cytometry and cell fractionation the field encompasses the study of both eukaryotic and prokaryotic cells including the mechanisms and processes of cell cycle biochemistry cellular communication metabolism and composition research in cell biology takes an interdisciplinary approach by integrating other sciences such as genetics molecular genetics immunology medical microbiology cytochemistry and molecular biology this book contains some path breaking studies in the field of cell biology from theories to research to

practical applications case studies related to all contemporary topics of relevance to cell biology have been included herein this book includes contributions of experts and scientists which will provide innovative insights into this field

Cell Biology and Genetics

2012-04

your body has trillions of cells and each one has the complexity and dynamism of a city your life your thoughts your diseases and your health are all the function of cells but what do you really know about what goes on inside you the last time most people thought about cells in any detail was probably in high school or a college general biology class but the field of cell biology has advanced incredibly rapidly in recent decades and a great deal of what we may have learned in high school and college is no longer accurate or particularly relevant the cell inside the microscopic world that determines our health our consciousness and our future is a fascinating story of the incredible complexity and dynamism inside the cell and of the fantastic advancements in our understanding of this microscopic world dr joshua z rappoport is at the forefront of this field and he will take you on a journey to discover a deeper understanding of how cells work and the basic nature of life on earth fascinating histories of some of the key discoveries from the seventeenth century to the last decade and provocative thoughts on the current state of academic research the knowledge required to better understand the new developments that are announced almost weekly in science and health care such as cancer cellular therapies and the potential promise of stem cells the ability to make better decisions about health and to debunk the misinformation that comes in daily via media using the latest scientific research the cell illustrates the diversity of cell biology and what it all means for your everyday life

Quantitative Biology

2012-08-25

the ability of neoplastic cells to survive exposure to various chemotherapeutic drugs represents the main obstacle to successful cancer chemotherapy this book deals with a particular type of resistance in tumor cells that represents a single but especially important aspect of the multifaceted problem of cancer drug resistance this type of resistance known as multidrug or pleiotropic drug resistance is characterized by cross resistance of cells to several different classes of cytotoxic drugs including some of the most commonly used anticancer agents over the last several years there has been a veritable explosion of genetic biochemical and clinical information on multidrug resistance which followed the identification and cloning of the genes responsible for this phenotype and the isolation of monoclonal antibodies against p glycoproteins the products of these genes elucidation of the molecular mechanism of multidrug resistance has led to the formulation of novel approaches to the prediction of tumor response to chemotherapeutic drugs and increasing the efficacy of cancer therapy analysis of the structure and function of p glycoproteins from multidrug resistant mammalian cells has also established a prototype for a novel class of eukaryotic membrane proteins which have now been associated with a variety of transport processes in different organisms this book summarizes the results of molecular biological pharmacological biochemical cytogenetic immunological and pathological studies on multidrug resistance in mammalian cells most of the chapters deal at least to some extent with the structure and expression of p glycoprotein and its role in multidrug resistance

A Comprehensive Approach to Cell Biology

2021-11-16

histology and cell biology an introduction to pathology uses a wealth of vivid full color images to help you master histology and cell biology dr abraham l kierszenbaum presents an integrated approach that correlates normal histology with cellular and molecular biology pathology and clinical medicine throughout the text a unique pictorial approach through illustrative diagrams photomicrographs and pathology photographs paired with bolded words key clinical terms in red and clinical boxes and essential concepts boxes that summarize important facts give you everything you need to prepare for your course exams as well as the usmle step 1 access to studentconsult com with usmle style multiple choice review questions downloadable images and online only references easily find and cross reference information through a detailed table of contents that highlights clinical examples in red review material quickly using pedagogical features such as essential concept boxes bolded words and key clinical terms marked in red that emphasize key details and reinforce your learning integrate cell biology and histology with pathology thanks to vivid descriptive illustrations that compare micrographs with diagrams and pathological images apply the latest developments in pathology through updated text and new illustrations that emphasize appropriate correlations expand your understanding of clinical applications with additional clinical case boxes that focus on applying cell and molecular biology to clinical conditions effectively review concepts and reinforce your learning using new concept map flow charts that provide a framework to illustrate the integration of cell tissue structure function within a clinical pathology context

The Cell

2017-04-04

this text emphasises the importance of staying informed about *saccharomyces cerevisiae* as it provides the intellectual basis for much of the molecular and cellular biology of eukaryotes it offers yeast users a concise account of the metabolism and physiology of this organism chapters include life cycle and morphogenesis carbon metabolism nitrogen metabolism lipids and membranes protein trafficking and phosphorylation and dephosphorylation of protein and stress response this book is for second and final year undergraduates in microbiology biotechnology and applied biology postgraduate and doctoral researchers working on yeast and researchers and managers in industries which use and exploit *saccharomyces cerevisiae*

Molecular and Cellular Biology of Multidrug Resistance in Tumor Cells

2012-12-06

this fully revised second edition leads students on an exploration of viruses by supporting interactive learning all the major classes of viruses are covered with separate chapters for their replication and expression strategies examples come from the most studied and medically important viruses such as sars cov 2 hiv and influenza

Histology and Cell Biology: An Introduction to Pathology E-Book

2011-04-12

cell biology spans among the widest diversity of methods in the biological sciences from physical chemistry to microscopy cells have given up with secrets only when the questions are asked in the right way this new volume of methods in cell biology covers laboratory methods in cell biology and includes methods that are among the most important and elucidating in the discipline such as transfection cell enrichment and magnetic batch separation covers the most important laboratory methods in cell biology chapters written by experts in their fields

Metabolism and Molecular Physiology of Saccharomyces Cerevisiae

1998-12-09

karp s cell biology global edition continues to build on its strength at connecting key concepts to the experiments that reveal how we know what we know in the world of cell biology this classic text explores core concepts in considerable depth often adding experimental detail it is written in an inviting style to assist students in handling the plethora of details encountered in the cell biology course in this edition two new co authors take the helm and help to expand upon the hallmark strengths of the book improving the student learning experience

Molecular and Cellular Biology of Viruses

2024-03-18

the series advances in stem cell biology is a timely and expansive collection of comprehensive information and new discoveries in the field of stem cell biology somatic cells can be reprogrammed into induced pluripotent stem cells ipscs by the expression of specific transcription factors these cells are transforming biomedical research in the last 15 years cell sources for ipscs volume 7 teaches readers about current advances in the field it shares up to date comprehensive overviews of current advances in the field this book describes the derivation of ipscs from different sources in vitro enabling us to study the cellular and molecular mechanisms involved in different pathologies further insights into these mechanisms will have important implications for our understanding of disease appearance development and progression the authors focus on the modern state of art methodologies and the leading edge concepts in the field of stem cell biology in recent years remarkable progress has been made in the obtention of ipscs and their differentiation into several cell types tissues and organs using state of art techniques these advantages facilitated identification of key targets and definition of the molecular basis of several disorders thus this book is an attempt to describe the most recent developments in ipscs biology which is one of the rising hot topics in the field of molecular and cellular biology today here we present a selected collection of detailed chapters on how we derive ipscs from distinct sources ten chapters written by experts in the field summarize the present knowledge about different cell sources for ipscs this volume is written for researchers and scientists in stem cell therapy cell biology regenerative medicine and organ transplantation and is contributed by world renowned authors in the field provides overview of the fast moving field of stem cell biology and function regenerative medicine and therapeutics covers the following myoblast derived ipscs lymphoblastoid derived ipscs amniotic fluid stem

cell derived ipscs spermatogonial stem cell derived ipscs ipscs derived from postmortem tissue and more contributed by world renowned experts in the field

Laboratory Methods in Cell Biology

2012-12-31

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Karp's Cell Biology

2018-01-11

dictyostelia are soil amoebae capable of extraordinary feats of survival motility chemotaxis and development characterised by their ability to transform from a single celled organism into an elaborate assemblage of thousands of synchronously moving cells dictyostelids are often referred to as social amoebae and have been the subjects of serious study since the 1930s research in this area has been instrumental in understanding many problems in cellular biology beginning with the history of dictyostelids and discussing each stage of their development this book considers the evolution of this unique organism analyses the special properties of the dictyostelid genome and presents in detail the methods available at the time of the book s original publication in 2001 to manipulate their genes representing the synthesis of such material and with an emphasis on combining classical experiments with modern molecular findings this book will be essential for researchers and graduates in developmental and cellular biology

Cell Sources for iPSCs

2021-05-09

international review of cell molecular biology presents current advances and comprehensive reviews in cell biology both plant and animal articles address structure and control of gene expression nucleocytoplasmic interactions control of cell development and differentiation and cell transformation and growth authored by some of the foremost scientists in the field provides up to date information and directions for future research valuable reference material for advanced undergraduates graduate students and professional scientists

Essential□□□□□(□□□5□)

2021-07

yeast is one of the oldest domesticated organisms and has both industrial and domestic applications in addition it is very widely used as a eukaryotic model organism in biological research and has offered valuable knowledge of genetics and basic cellular processes in fact studies in yeast have offered insight in mechanisms underlying ageing and diseases such as alzheimers parkinsons and cancer yeast is also widely used in the lab as a tool for many technologies such as two hybrid analysis high throughput protein purification and localization and gene expression profiling an up to date resource providing a comprehensive account of yeast biology and its use as a tool and model organism for understanding cellular and molecular processes of eukaryotes topics covered range from the fundamentals of yeast biology such as cell structure biochemistry genetics and signaling to current approaches and applications such as metabolomics disease models and uses in biotechnology

Dictyostelium

2001-01-11

with the aim of providing an international forum for the communication of both the basic and clinical aspects of molecular and cellular biology of cancer a nato asl was held in porto carras halkidiki greece september 1 12 1995 the principles as well as recent developments in tumor biology were discussed in depth with emphasis on the regulation of the cell cycle differentiation programmed cell death apoptosis and genetics of cancer this book constitutes the proceedings of that meeting specifically the following areas were addressed a enzymes and proteins cyclins that control the cell cycle as well as the role of m as gene in meiosis and transformation b the structural basis for specificity in protein tyrosine kinase reactions c the differentiation of normal as well as neoplastic cells with respect to molecular mechanism s by which chemical agents or growth factors trigger maturation d phenotypic and genetic aspects of apoptosis e the role of growth factors like igf I fgf tn il 6 etc in cell cycle regulation apoptosis cell death and senescence f molecular mechanisms of transcriptional activation of globin genes and stability of mnas related to growth proteins and iron metabolism g the cellular and molecular biology of bone marrow hemopoiesis and h neurotrophic factors and the generation of cellular diversity in the central nervous system it was obvious from the studies presented that neoplastic cell growth differentiation and apoptosis in many cell types are regulated at several levels

International Review of Cell and Molecular Biology

2009-03-10

these volumes differ from the current conventional texts on bone cell biology biology itself is advancing at breakneck speed and many presentations completely fail to present the field in a truly modern context this text does not attempt to present detailed clinical descriptions rather after discussion of basic concepts there is a concentration on recently developed findings equally relevant to basic research and a modern understanding of metabolic bone disease the book will afford productive new insights into the intimate inter relation of experimental findings and clinical understanding modern medicine is founded in the laboratory and demands of its practitioners a broad scientific understanding these volumes are written to exemplify this approach this book is likely to become essential reading equally for laboratory and clinical scientists

Yeast

2010-01-11

cell biology the ultimate concise introduction to modern cell biology now updated taking an essentials only approach cell biology a short course third edition tells the story of cells as the unit of life in a uniquely accessible student friendly manner completely updated from the previous edition and now in full color this accessible text features new chapters a supporting website for students and online supplemental material including powerpoint slides for instructors as in earlier editions the authors combine their expertise in the areas of cell biology physiology biochemistry and molecular biology to skillfully present key concepts illustrating them with clear diagrams and numerous examples from current research special sections focus on the importance of cell biology in medicine and industry today with extensive cross referencing to real world research and development in updating this text the authors have provided such new material as a chapter on the cell biology of the immune system discussion of stem cells cytokine receptors the cell biology of cancer and cell division medical relevance text boxes a family tree of organisms to reinforce cell biology differences among major taxa online supplemental information for students including interactive quizzes and animations also included are a detailed description of intercellular signaling and a chapter devoted to a case study of cystic fibrosis review questions are included at the end of each chapter as well as a full glossary of key words and phrases to help make even the most complex concepts easy to master ideally suited for undergraduate cell biology biology majors pre med students and graduate and medical school courses in cell biology this third edition of cell biology is the most integrated introduction available on this fascinating and timely subject visit the companion website wileyshortcourse.com/cellbiology for supplementary material including animations video and useful links and references

Tumor Biology

2013-06-29

since the publication of the best selling handbook of molecular and cellular methods in biology and medicine the field of biology has experienced several milestones genome sequencing of higher eukaryotes has progressed at an unprecedented speed starting with baker's yeast *Saccharomyces cerevisiae* organisms sequenced now include human *Homo sapiens*

The Molecular and Cellular Biology of Fertilization

2013-11-10

boiled down essentials of the top selling schaum's outline series for the student with limited time what could be better than the bestselling schaum's outline series for students looking for a quick nuts and bolts overview it would have to be schaum's easy outline series every book in this series is a pared down simplified and tightly focused version of its bigger predecessor with an emphasis on clarity and brevity each new title features a streamlined and updated format and the absolute essence of the subject presented in a concise and readily understandable form graphic elements such as sidebars reader alert icons and boxed highlights feature selected points from the text illuminate keys to learning and give students quick pointers to the essentials

Molecular and Cellular Biology of Bone, Part A

1999-01-13

neurofibromatosis type 1 nf1 caused by mutational inactivation of the nf1 tumour suppressor gene is one of the most common dominantly inherited human disorders affecting 1 in 3000 individuals worldwide this book presents in concise fashion but as comprehensively as possible our current state of knowledge on the molecular genetics molecular biology and cellular biology of this tumour predisposition syndrome written by internationally recognized experts in the field the 44 chapters that constitute this edited volume provide the reader with a broad overview of the clinical features of the disease the structure and expression of the nf1 gene its germ line and somatic mutational spectra and genotype phenotype relationships the structure and function of its protein product neurofibromin nf1 modifying loci the molecular pathology of nf1 associated tumours animal models of the disease psycho social aspects and future prospects for therapeutic treatment

Cell Biology

2011-10-04

plants are composed of 17 essential and at least 5 beneficial elements and these must be taken up as metal or nutrient ions to allow for growth and cell division much effort has been devoted to studying the physiology and biochemistry of metals and nutrients in plants the aspect of cell biology however is an emerging new field and much needs to be learned about sensing long distance communication within plants and cellular signal transduction chains in response to environmental stress cellular malfunction and consequently disease result when any of the key steps in metal and nutrient homeostasis are disrupted working together leading experts in their respective fields provide a new concept that reaches beyond plant nutrition and plasmalemma transport into cellular physiology each chapter contains basic information on uptake physiological function deficiency and toxicity syndromes long distance and intracellular transport the discussion is devoted to metals and nutrients where recent progress has been made and highlights the aspects of homeostasis and sensing signaling and regulation drawing parallels to other organisms including humans finally the book identifies gaps in our current knowledge and lays out future research directions

Handbook of Molecular and Cellular Methods in Biology and Medicine

2003-11-24

given the very limited capacity of regeneration in the brain protecting neurons that are on the brink of death is a major challenge for basic and clinical neuroscience with implications for a broad spectrum of acute and chronic neurological and psychiatric diseases this book brings together leading experts from neurobiology neurophysiology neuropharmacology neuroimmunology and clinical neuroscience to highlight the most recent milestones in this rapidly evolving field the book will serve as a reference for both basic neuroscientists and clinicians interested in an authoritative update on the molecular and cellular biology of neuroprotection and its promises for new therapeutic strategies

Schaum's Easy Outline Molecular and Cell Biology

2003-03-22

the new chapters in this revised 2nd edition now cover cell culture plant hormones the cell cycle and cell death the latter topic is the most polemic issue in cell biology today

Neurofibromatosis Type 1

2013-01-29

although modern cell biology is often considered to have arisen following world war ii in tandem with certain technological and methodological advances in particular the electron microscope and cell fractionation its origins actually date to the 1830s and the development of cytology the scientific study of cells by 1924 with the publication of edmund vincent cowdry s general cytology the discipline had stretched beyond the bounds of purely microscopic observation to include the chemical physical and genetic analysis of cells inspired by cowdry s classic watershed work this book collects contributions from cell biologists historians and philosophers of science to explore the history and current status of cell biology despite extraordinary advances in describing both the structure and function of cells cell biology tends to be overshadowed by molecular biology a field that developed contemporaneously this book remedies that unjust disparity through an investigation of cell biology s evolution and its role in pushing forward the boundaries of biological understanding contributors show that modern concepts of cell organization mechanistic explanations epigenetics molecular thinking and even computational approaches all can be placed on the continuum of cell studies from cytology to cell biology and beyond the first book in the series convening science discovery at the marine biological laboratory visions of cell biology sheds new light on a century of cellular discovery

Cell Biology of Metals and Nutrients

2010-03-10

the fifth edition provides an authoritative and comprehensive vision of molecular biology today it presents developments in cell birth lineage and death expanded coverage of signaling systems and of metabolism and movement of lipids

Molecular and Cellular Biology of Neuroprotection in the CNS

2012-12-06

the over 10 000 entries in this comprehensive dictionary of cell and molecular biology provide clear and concise definitions for anyone working in life sciences today it incorporates related terms from neuroscience genetics

microbiology immunology pathology and physiology this fourth revised edition reflects the enormous changes brought about by the explosion of new technologies especially high throughput approaches and functional genomics as a result this edition is over 30 larger than the previous edition with 3400 new entries as with the prior edition additions are reflective of online search queries performed by users of the dictionary the entries in this authoritative work have been widely praised for their clarity brevity and accuracy throughout the dictionary of cell and molecular biology features numerous tables and other useful features thoroughly revised and expanded by over 30 with 3400 new entries expanded coverage of areas greatly impacted by genomics includes new terms that relate to the recent elucidation of underlying mechanisms of cell cycle regulation apoptosis relationship between mitochondria and disease metabolic control and stem cell biology consistently provides the most complete short definitions of technical terminology for anyone working in life sciences today extensively cross referenced provides multiple definitions notes on word origins and other useful features

Cell Biology

1996-11-15

Visions of Cell Biology

2018-01-19

Histologia e biologia celular

2008

Molecular Cell Biology

2004

The Dictionary of Cell & Molecular Biology

2007-10-04

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