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Exoplanets - Karen Latchana Kenney 2017-01-01
Until the mid-1990s, scientists only guessed that the universe held exoplanets, or planets beyond our solar system. But using advanced physics and powerful telescopes, scientists have since identified more than three thousand exoplanets. This work has revealed fascinating worlds, including a planet that oozes lavalike fluids and a planet that glows bright pink. Even more fascinating, scientists think that some exoplanets might contain life. Many orbit in the Goldilocks zone, the region around a star that's not too hot or too cold for liquid water, a key ingredient for life. This book examines exoplanets, the possibilities for life beyond Earth, and the cutting-edge technologies scientists use to learn about distant worlds.
Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology - Andreas Hofmann 2018-04-19
Bringing this best-selling textbook right up to date, the new edition uniquely integrates the theories and methods that drive the fields of biology, biotechnology and medicine, comprehensively covering both the techniques students will encounter in lab classes and those that underpin current key advances and discoveries. The contents have been updated to include both traditional and cutting-edge techniques most commonly used in current life science research. Emphasis is placed on understanding the theory behind the techniques, as well as analysis of the resulting data. New chapters cover proteomics, genomics, metabolomics, bioinformatics, as well as data analysis and visualisation. Using accessible language to describe concepts and methods, and with a wealth of new in-text worked examples to challenge students' understanding, this textbook provides an essential guide to the key techniques used in current bioscience research.
Molecular Biology of the Cell - 1994

Molecular Cell Biology - Harvey F. Lodish 2000
With its acclaimed author team, cutting-edge content, emphasis on medical relevance, and coverage based on landmark experiments, "Molecular Cell Biology" has justly earned an impeccable reputation as an authoritative and exciting text. The new Sixth Edition features two new coauthors, expanded coverage of immunology and development, and new media tools for students and instructors.
Brody's Human Pharmacology - Theodore M. Brody 2005-01-01
Thoroughly updated from the previous edition, this book provides an overview of the most important aspects of pharmacology--focusing on the concepts, clinical applications, and side effects that are considered essential knowledge in the field. Covers gene therapy, eating disorders and obesity, herbal and natural products, the treatment of neurological disorders, including Alzheimer's disease, and other rapid expanding areas.
Molecular Cell Biology - University Harvey Lodish 2008
The sixth 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 Biology of the Cell 6E - The Problems Book - John Wilson 2014-11-21
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
Advances in Structural Biology - S.K. Malhotra 1996-06-21
The present volume continues the trend established in previous volumes in this series on Advances in Structural Biology. As in the past, diverse topics of current importance relevant to the theme of the series are included in the fourth volume.
Essential Cell Biology - Alberts,Bruce 2018-11-19
This text features lively, clear writing and exceptional illustrations, making it the ideal textbook for a first course in both cell and molecular biology. Thoroughly revised and updated, the Fifth Edition maintains its focus on the latest cell biology research. For the first time ever, Essential Cell Biology will come with access to Smartwork5, NortonÕs innovative online homework platform, creating a more complete learning experience.
Molecular Biology of the Cell - Alberts, Bruce 2022-06-01
For more than four decades, Molecular Biology of the Cell has distilled the vast amount of scientific knowledge to illuminate basic principles, enduring concepts, and cutting-edge research. The Seventh Edition has been extensively revised and updated with the latest research, and has been thoroughly vetted by experts and instructors. The classic companion text, The Problems Book, has been reimagined as the Digital Problems Book in Smartwork, an interactive digital assessment course with a wide selection of questions and automatic-grading functionality. The digital format with embedded animations and dynamic question types makes the Digital Problems Book in Smartwork easier to assign than ever beforeÑfor both in-person and online classes.
Essential Cell Biology - Bruce Alberts 2018-11-19
This text features lively, clear writing and exceptional illustrations, making it the ideal textbook for a first course in both cell and molecular biology. Thoroughly revised and updated, the Fifth Edition maintains its focus on the latest cell biology research. For the first time ever, Essential Cell Biology will come with access to Smartwork5, Norton's innovative online homework platform, creating a more complete learning experience.
Molecular Biology of the Cell - Bruce Alberts 2022
The definitive text in cell biology now with the Digital Problems Book in Smartwork
Essential Cell Biology International - Bruce Alberts 2000-12

Molecular Biology of the Cell - John H. Wilson 2008
This textbook explains the ways in which experiments and simple calculations can lead to an understanding of how cells work and which cellular and molecular biological processes are involved in their functioning. Each chapter reviews key terms, tests for understanding basic concepts, and poses research-based problems for the introduction of the experimental foundations of cell and molecular biology.
Chemistry for the Biosciences - Jonathan Crowe 2010-03-25
Education In Chemistry, on the first edition of Chemistry for the Biosciences. --
Essential Cell Biology - Bruce Alberts 2014
Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular

detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank, and new enhanced assessments for students.

Physical Biology of the Cell - Rob Phillips 2012-10-29

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

Studyguide for Molecular Biology of the Cell by Alberts, Bruce, ISBN 9780815344643 - Cram101 Textbook Reviews 2015-06-11

Never HIGHLIGHT a Book Again! Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780815344643. This item is printed on demand.

Organic Chemistry - Jonathan Clayden 2012-03-15

Rev. ed. of: Organic chemistry / Jonathan Clayden ... [et al.].

Molecular Biology of the Cell - Bruce Alberts 2004

Lewin's Genes XI - Jocelyn E. Krebs 2014

Molecular Biology is a rapidly advancing field with a constant flow of new information and cutting-edge developements that impact our lives. Lewin's GENES has long been the essential resource for providing the teaching community with the most modern presentation to this dynamic area of study. GENES XI continues this tradition by introducing the most current data from the field, covering gene structure, sequencing, organization, and expression. It has enlisted a wealth of subject-matter experts, from top institutions, to provide content updates and revisions in their individual areas of study. A reorganized chapter presentation provides a clear, more student-friendly introduction to course material than ever before. - Updated content throughout to keep pace with this fast-paced field.- Reorganized chapter presentation provides a clear, student-friendly introduction to course material.- Expanded coverage describing the connection between replication and the cell cycle is included, and presents eukaryotes as well as prokaryotes.- Available with new online Molecular Biology Animations.- Online access code for the companion website is included with every new book. The companion website offers numerous study aids and learning tools to help students get the most out of their course.- Instructor's supplements include: PowerPoint Image Bank, PowerPoint Lecture Slides, and Test Bank.

Molecular Biology of the Cell - Bruce Alberts 2014-11-18

"As the amount of information in biology expands dramatically, it becomes increasingly important for textbooks to distill the vast amount of scientific knowledge into concise principles and enduring concepts. As with previous editions, Molecular Biology of the Cell, Sixth Edition accomplishes this goal with clear writing and beautiful illustrations. The Sixth Edition has been extensively revised and updated with the latest research in the field of cell biology, and it provides an exceptional framework for teaching and learning. The entire illustration program has been greatly enhanced. Protein structures better illustrate structure-function relationships, icons are simpler and more consistent within and between chapters, and micrographs have been refreshed and updated with newer, clearer, or better images. As a new feature, each chapter now contains intriguing open-ended questions highlighting "What We Don't Know," introducing students to challenging areas of future research. Updated end-of-chapter problems reflect new research discussed in the text. Thought-provoking end-of-chapter questions have been expanded to all chapters, including questions on developmental biology, tissues and stem cells, the immune system, and pathogens"--Provided by publisher.

Studyguide for Molecular Biology of the Cell by Alberts, Bruce - Cram101 Textbook Reviews 2013-05

Never HIGHLIGHT a Book Again Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780872893795. This item is printed on demand.

Molecular Biology of the Cell - Bruce Alberts 2008

Accompanying CD-ROM contains solutions to the problems and figures in PowerPoint and JPEG formats.

Lehninger Principles of Biochemistry - David L. Nelson 2008-02

Authors Dave Nelson and Mike Cox combine the best of the laboratory and best of the classroom, introducing exciting new developments while communicating basic principles of biochemistry.

Wallace, Darwin, and the Origin of Species - James T. Costa 2014-06-09

Darwin is credited with discovering evolution through natural selection, but Alfred Russel Wallace saw the same process at work in nature and elaborated the same theory. Dispelling misperceptions of Wallace as a secondary figure, James Costa reveals the two naturalists as equals in advancing one of the greatest scientific discoveries of all time.

Molecular Biology of the Cell (Sixth Edition) EBook Folder - Bruce Alberts 2020-07-29

Molecular and Cell Biology For Dummies - Rene Fester Kratz 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 Web sites Important events in the development of DNA technology Ten great ways to improve your biology grade

Essential Cell Biology + Garland Science Learning System Redemption Code - Bruce Alberts 2016-06-01

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology, including the biomedical sciences. The Fourth Edition has been thoroughly revised, and covers the latest developments in this fast-moving field, yet retains the academic level and length of the previous edition. The book is accompanied by a rich package of online student and instructor resources, including over 130 narrated movies, an expanded and updated Question Bank. Essential Cell Biology, Fourth Edition is additionally supported by the Garland Science Learning System. This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class, as well as individual students, via the instructor dashboard. Students receive immediate feedback on their mastery of the topics, and will be better prepared for lectures and classroom discussions. The user-friendly system provides a convenient way to engage students while assessing progress. Performance data can be used to tailor classroom discussion, activities, and lectures to address students needs precisely and efficiently. For more information and sample material, visit http://garlandscience.rocketmix.com/. "

Essential Cell Biology - Bruce Alberts 2015-01-01

Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology, and its lively, clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology. The text and figures are easy-to-follow, accurate, clear, and engaging for the introductory student. Molecular

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Molecular Biology of the Cell - Bruce Alberta 2008

New edition of a text in which six researchers from leading institutions discuss what is known and what is yet to be understood in the field of cell biology. The material on molecular genetics has been revised and expanded so that it can be used as a stand-alone text. A new chapter covers pathogens, infection, and innate immunity. Topics include introduction to the cell, basic genetic mechanisms, methods, internal organization of the cell, and cells in their social context. The book contains color illustrations and charts; and the included CD-ROM contains dozens of video clips, animations, molecular structures, and high-resolution micrographs. Annotation copyrighted by Book News Inc., Portland, OR.

Cellular Domains - Ivan R. Nabi 2011-07-12

Cellular domains play vital roles in a wide range of cellular functions. Defining cellular domains and understanding the molecular basis of their formation is essential to the study of cell functionality. This authoritative reference provides the most comprehensive analysis available on cellular domains, with emphasis on the definition and molecular composition of the domain as well as the functional implications of domain organization.

Essential Cell Biology - Bruce Alberts 2019

This text features lively, clear writing and exceptional illustrations, making it the ideal textbook for a first course in both cell and molecular biology. Thoroughly revised and updated, the Fifth Edition maintains its focus on the latest cell biology research. For the first time ever, Essential Cell Biology will come with access to Smartwork5, Norton's innovative online homework platform, creating a more complete learning experience.

Studyguide for Molecular Biology of the Cell by Bruce Alberts, Isbn 9780815341055 - Bruce Alberts 2012-09

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Creation - Adam Rutherford 2014-05-27

Today's scientists are radically exceeding the boundaries of evolution and engineering entirely novel creatures. Cutting edge "synthetic biology" may lead to solutions to some of the world's most pressing crises and pave the way for inventions once relegated to science fiction. Meanwhile, these advances are shedding new light on the biggest mystery of all—how did life begin? As we come closer and closer to understanding the ancient root that connects all living things, Adam Rutherford shows how we may finally be able to achieve the creation of new life where none existed before.

Molecular Biology of the Cell - John Wilson 2002

This text is designed to help students appreciate the ways in which experiments and simple calculations can lead to an understanding of how cells work. The new edition of 'A Problems Approach' is completely reorganized and revised to match the fourth edit

Essential Cell Biology - Bruce Alberts 1998

Explains the basics of cell biology for people with a minimal knowledge of biology

Molecular Biology - Nancy Craig 2014-05

'Molecular Biology' offers a fresh, distinctive approach to the study of molecular biology. With its focus on key principles, its emphasis on the commonalities that exist between the three kingdoms of life, and its integrated approach throughout, it is the perfect companion to any molecular biology course.

The Writing Life of James D. Watson - Errol C. Friedberg 2005

James Watson's fame as a scientist and research leader overshadows his considerable achievements as an innovator in the form and style of scientific communication. This book surveys Watson's books and essays from the perennially bestDSselling The Double Helix through his classic textbooks of the 1960s and 70s, polemics on ethical questions about genetic technology, to more recent works of autobiography.

A Cell Biologist's Guide to Modeling and Bioinformatics - Raquell M. Holmes 2008-02-13

A step-by-step guide to using computational tools to solve problems in cell biology Combining expert discussion with examples that can be reproduced by the reader, A Cell Biologist's Guide to Modeling and Bioinformatics introduces an array of informatics tools that are available for analyzing biological data and modeling cellular processes. You learn to fully leverage public databases and create your own computational models. All that you need is a working knowledge of algebra and cellular biology; the author provides all the other tools you need to understand the necessary statistical and mathematical methods. Coverage is divided into two main categories: Molecular sequence database chapters are dedicated to gaining an understanding of tools and strategies—including queries, alignment methods, and statistical significance measures—needed to improve searches for sequence similarity, protein families, and putative functional domains. Discussions of sequence alignments and biological database searching focus on publicly available resources used for background research and the characterization of novel gene products. Modeling chapters take you through all the steps involved in creating a computational model for such basic research areas as cell cycle, calcium dynamics, and glycolysis. Each chapter introduces a new simulation tooland is based on published research. The combination creates a rich context for ongoing skill and knowledge development in modeling biological research systems. Students and professional cell biologists can develop the basic skills needed to learn computational cell biology. This unique text, with its step-by-step instruction, enables you to test and develop your new bioinformatics and modeling skills. References are provided to help you take advantage of more advanced techniques, technologies, and training.