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KEY=BIOLOGY - HUERTA PITTS

ESSENTIAL CELL BIOLOGY

Garland Science 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

Garland Pub Cell biology is taught in classrooms around the world to provide students with a firm conceptual grounding in biology. This text provides basic, core knowledge about how cells work and uses colour images and diagrams to emphasize concepts and aid understanding.

ESSENTIAL CELL BIOLOGY + GARLAND SCIENCE LEARNING SYSTEM REDEMPTION CODE

Garland Science 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/>. "

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ESSENTIAL CELL BIOLOGY WITH CD.

ESSENTIAL CELL BIOLOGY

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ESSENTIAL CELL BIOLOGY

FIFTH INTERNATIONAL STUDENT EDITION

W.W. Norton & Company 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 6E - THE PROBLEMS BOOK

Garland Science 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

MOLECULAR BIOLOGY OF THE CELL

ESSENTIAL CELL BIOLOGY INTERACTIVE VIEWING GUIDE

PLANT CELL WALLS

Garland Science Plant cell walls are complex, dynamic cellular structures essential for plant growth, development, physiology and adaptation. Plant Cell Walls provides an in depth and diverse view of the microanatomy, biosynthesis and molecular physiology of these cellular structures, both in the life of the plant and in their use for bioproducts and biofuels. Plant Cell Walls is a textbook for upper-level undergraduates and graduate students, as well as a professional-level reference book. Over 400 drawings, micrographs, and

photographs provide visual insight into the latest research, as well as the uses of plant cell walls in everyday life, and their applications in biotechnology. Illustrated panels concisely review research methods and tools; a list of key terms is given at the end of each chapter; and extensive references organized by concept headings provide readers with guidance for entry into plant cell wall literature. Cell wall material is of considerable importance to the biofuel, food, timber, and pulp and paper industries as well as being a major focus of research in plant growth and sustainability that are of central interest in present day agriculture and biotechnology. The production and use of plants for biofuel and bioproducts in a time of need for responsible global carbon use requires a deep understanding of the fundamental biology of plants and their cell walls. Such an understanding will lead to improved plant processes and materials, and help provide a sustainable resource for meeting the future bioenergy and bioproduct needs of humankind.

PHYSICAL BIOLOGY OF THE CELL

Garland Science 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

ESSENTIAL CELL BIOLOGY

CELL MOVEMENTS

FROM MOLECULES TO MOTILITY

Garland Science Cell Movements vividly describes how complex movements can arise from the properties and behaviors of biological molecules. This second edition is updated throughout with recent advances in the field and has a completely revised and redrawn artwork program. The text is suitable for advanced undergraduates as well as for professionals wishing for an overview of this field.

ESSENTIAL CELL BIOLOGY

AN INTRODUCTION TO THE MOLECULAR BIOLOGY OF THE CELL

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

STEM CELLS

BIOLOGY AND APPLICATION

Garland Science Stem cell science, encompassing basic biology to practical application, is both vast and diverse. A full appreciation of it requires an understanding of cell and molecular biology, tissue structure and physiology, the practicalities of tissue engineering and bioprocessing, and the pathways to clinical implementation—including the ethical and regulatory imperatives that our society requires us to address. Expectation and debate have been driven by the allure of regenerative medicine using stem cells as a source of replacements for damaged or aged tissues. The potential of stem cell application goes far beyond this. Highly innovative uses of stem cells are emerging as possible therapies for cancers, treating acute damage in conditions such as stroke and myocardial infarction, and resolving a whole range of diseases. Stem Cells: Biology and Application presents the basic concepts underlying the fast-moving science of stem cell biology. This textbook is written for an advanced stem cell biology course. The target audience includes senior undergraduates, first year graduate students, and practitioners in molecular biology, biology, and biomedical engineering. Stem Cells provides a comprehensive understanding of these unique cells, highlighting key areas of research, associated controversies, case studies, technologies, and pioneers in the field.

THE BIOLOGY OF CANCER

Garland Pub Accompanying CD-ROM contains ... "figures from text--in PowerPoint and JPEG formats; supplementary sidebars; mini-lectures; movies."--CD-ROM label.

ANIMAL CELL CULTURE AND TECHNOLOGY

Garland Science Animal cell culture is an important laboratory technique in the biological and medical sciences. It has become an essential tool for the study of most biochemical and physiological processes and the use of large-scale animal cell culture has become increasingly important to the commercial production of specific compounds for the pharmaceutical industry. This book describes the basic requirements for establishing and maintaining cell cultures both in the laboratory and in large-scale operations. Minimal background knowledge of the subject is assumed and therefore it will be a readable introduction to animal cell culture for undergraduates, graduates and experienced researchers. Reflecting the latest developments and trends in the field, the new topics include the latest theory of the biological clock of cell lines, the development of improved serum-free media formulations, the increased understanding of the importance and control of protein glycosylation, and the humanization of antibodies for therapeutic use.

MOLECULAR BIOLOGY

STRUCTURE AND DYNAMICS OF GENOMES AND PROTEOMES

Garland Science Recipient of the CHOICE Outstanding Academic Title (OAT) Award. Molecular Biology: Structure and Dynamics of Genomes and Proteomes illustrates the essential principles behind the transmission and expression of genetic information at the level of DNA, RNA, and proteins. This textbook emphasizes the experimental basis of discovery and the most recent a

ESSENTIAL CELL BIOLOGY TRANSPARENCIES

Garland Pub This set contains 250 full-color transparencies of images from Essential Cell Biology, Second Edition

CELL BIOLOGY BY THE NUMBERS

Garland Science A Top 25 CHOICE 2016 Title, and recipient of the CHOICE Outstanding Academic Title (OAT) Award. How much energy is released in ATP hydrolysis? How many mRNAs are in a cell? How genetically similar are two random people? What is faster, transcription or translation? Cell Biology by the Numbers explores these questions and dozens of others provid

VIBRATIONS AND WAVES

CRC Press The M.I.T. Introductory Physics Series is the result of a program of careful study, planning, and development that began in 1960. The Education Research Center at the Massachusetts Institute of Technology (formerly the Science Teaching Center) was established to study the process of instruction, aids thereto, and the learning process itself, with special reference to science teaching at the university level. Generous support from a number of foundations provided the means for assembling and maintaining an

experienced staff to co-operate with members of the Institute's Physics Department in the examination, improvement, and development of physics curriculum materials for students planning careers in the sciences. After careful analysis of objectives and the problems involved, preliminary versions of textbooks were prepared, tested through classroom use at M.I.T. and other institutions, re-evaluated, rewritten, and tried again. Only then were the final manuscripts undertaken.

MOLECULAR NEUROSCIENCE

Garland Science Molecular Neuroscience takes an interesting and original approach to explaining the present and future impact of molecular biology on the study of neuroscience. It provides the reader with a level of understanding which will allow them to delve deeper into the ever expanding neuroscience literature. A good balance is achieved between a didactic style and well-selected examples of experimental approaches. This book is written for 2nd and 3rd year life science undergraduates and MSc students on a range of courses. Medical students and researchers requiring a concise introduction to neuroscience, particularly the latest molecular approaches, will also find it an essential read.

THE CELL IN DEVELOPMENT AND INHERITANCE

This work has been called the single most influential treatise on cytology of the 20th century.

MATHEMATICS FOR BIOLOGICAL SCIENTISTS

Garland Science Mathematics for Biological Scientists is a new undergraduate textbook which covers the mathematics necessary for biology students to understand, interpret and discuss biological questions. The book's twelve chapters are organized into four themes. The first theme covers the basic concepts of mathematics in biology, discussing the mathematics used in biological quantities, processes and structures. The second theme, calculus, extends the language of mathematics to describe change. The third theme is probability and statistics, where the uncertainty and variation encountered in real biological data is described. The fourth theme is explored briefly in the final chapter of the book, which is to show how the 'tools' developed in the first few chapters are used within biology to develop models of biological processes. Mathematics for Biological Scientists fully integrates mathematics and biology with the use of colour illustrations and photographs to provide an engaging and informative approach to the subject of mathematics and statistics within biological science.

MOLECULAR BIOLOGY OF ASSEMBLIES AND MACHINES

Garland Science Molecular Biology of Assemblies and Machines presents a comprehensive narrative describing the structures of macromolecular complexes and how they assemble and interact. Richly illustrated, it is written for advanced undergraduates, graduate students, and researchers in biochemistry, structural biology, molecular biology, biophysics, cell biology, and microbiology, and will also appeal to those in chemistry, immunology, and medicine. Essentially all major biological activities are performed by assemblies of macromolecules (proteins, RNA, and DNA) acting in concert. These assemblies are dynamic and many are endowed with machine-like properties. This unique book explores the molecular mechanisms employed at the critical level between individual macromolecules and cells and organelles.

MOLECULAR BIOLOGY OF THE CELL

Garland Pub 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.

INTRODUCTION TO GENETICS: A MOLECULAR APPROACH

Garland Science Genetics today is inexorably focused on DNA. The theme of Introduction to Genetics: A Molecular Approach is therefore the progression from molecules (DNA and genes) to processes (gene expression and DNA replication) to systems (cells, organisms and populations). This progression reflects both the basic logic of life and the way in which modern biology

MICROBIOLOGY

A CLINICAL APPROACH

Garland Science As with the successful first edition, the new edition of Microbiology: A Clinical Approach is written specifically for pre-nursing and allied health students. It is clinically-relevant throughout and uses the theme of infection as its foundation. Microbiology is student-friendly: its text, figures, and electronic resources have been carefully designed

MOLECULAR BIOLOGY OF THE CELL

A PROBLEMS APPROACH

Garland Pub 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 edition

MOLECULAR AND CELL BIOLOGY FOR DUMMIES

John Wiley & Sons 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

CELL BOUNDARIES

HOW MEMBRANES AND THEIR PROTEINS WORK

Garland Science The central themes of Cell Boundaries concern the structural and organizational principles underlying cell membranes, and how these principles enable function. By building a biological and biophysical foundation for understanding the organization of lipids in bilayers and the folding, assembly, stability, and function of membrane proteins, the book aims to broaden the knowledge of bioscience students to include the basic physics and physical chemistry that inform us about membranes. In doing so, it is hoped that physics students will find familiar territory that will lead them to an interest in biology. Our progress toward understanding membranes and membrane proteins depends strongly upon the concerted use of both biology and physics. It is important for students to know not only what we know, but how we have come to know it, so Cell Boundaries endeavours to bring out the history behind the central discoveries, especially in the early chapters, where the foundation is laid for later chapters. Science is far more interesting if, as students, we can appreciate and share in the adventures—and misadventures—of discovering new scientific knowledge. Cell Boundaries was written with advanced undergraduates and beginning graduate students in the biological and physical sciences in mind, though this textbook will likely have appeal to researchers and other academics as well. Highlights the history of important central discoveries Early chapters lay the foundation for later chapters to build on, so knowledge is amassed High-quality line diagrams illustrate key concepts and illuminate molecular mechanisms Box features and spreads expand on topics in main text, including histories of discoveries, special techniques, and applications

PRINCIPLES OF PROTEOMICS

Garland Science Principles of Proteomics is designed specifically to explain the different stages of proteomic analysis, their complexities and their jargon to students and researchers in a non-technical overview of the field. The author describes the broad range of problems which proteomics can address, including structural proteomics, interaction proteomics, protein modification analysis and functional proteomics. Methodologies are described in user-friendly language, from the more traditional two-dimensional gel electrophoresis to the new developments in protein chip technologies. These are well presented in the context of overall strategies which can be adopted to address the different aspects of large-scale protein analysis.

VIRUSES

BIOLOGY, APPLICATIONS, AND CONTROL

Garland Science Viruses: Biology, Application, and Control is a concise textbook for advanced undergraduate and graduate students covering the essential aspects of virology included in biomedical science courses. It is an updated and expanded version of David Harper's Molecular Virology, Second Edition. Focusing on key mechanisms and developments, Viruses presents

MOLECULAR BIOLOGY OF THE CELL

PROBLEMS BOOK

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.

EXTRACELLULAR VESICLES

APPLICATIONS TO REGENERATIVE MEDICINE, THERAPEUTICS AND DIAGNOSTICS

Royal Society of Chemistry Extracellular and biofluids vesicles (EVs) are highly specialised yet ubiquitous nanoscale messengers secreted by cells. With the development of stem cell engineering, EVs promise to deliver next generation tools in regenerative medicine and tissue engineering, as well as in diagnostics. A vibrant and promising field, this book provides the first resource to the field. Covering basic cell biology, including EV production and intracellular communication, this book will provide material scientists and engineers with a foundation to the necessary biology. The reader will then learn about the isolation of extracellular vesicles their physicochemical characterisation and therapeutic application of EVs in regenerative medicine as well as their potential as biomarkers in medical diagnostic. This book will also discuss the regulatory landscape of EVs. Bridging cell biology, biomaterials, biophysics and biomedical engineering the content of this book is written with a broad interdisciplinary audience in mind. Researchers, new and established will find this a must-have on their shelf.

USING THE BIOLOGICAL LITERATURE

A PRACTICAL GUIDE, FOURTH EDITION

CRC Press The biological sciences cover a broad array of literature types, from younger fields like molecular biology with its reliance on recent journal articles, genomic databases, and protocol manuals to classic fields such as taxonomy with its scattered literature found in monographs and journals from the past three centuries. Using the Biological Literature: A Practical Guide, Fourth Edition is an annotated guide to selected resources in the biological sciences, presenting a wide-ranging list of important sources. This completely revised edition contains numerous new resources and descriptions of all entries including textbooks. The guide emphasizes current materials in the English language and includes retrospective references for historical perspective and to provide access to the taxonomic literature. It covers both print and electronic resources including monographs, journals, databases, indexes and abstracting tools, websites, and associations—providing users with listings of authoritative informational resources of both classical and recently published works. With chapters devoted to each of the main fields in the basic biological sciences, this book offers a guide to the best and most up-to-date resources in biology. It is appropriate for anyone interested in searching the biological literature, from undergraduate students to faculty, researchers, and librarians. The guide includes a supplementary website dedicated to keeping URLs of electronic and web-based resources up to date, a popular feature continued from the third edition.

THE MOLECULES OF LIFE

FIRST EDITION

W.W. Norton & Company This textbook provides an integrated physical and biochemical foundation for undergraduate students majoring in biology or health sciences. It is particularly suitable for students planning to enter the pharmaceutical industry. This new generation of molecular biologists and biochemists will harness the tools and insights of physics and chemistry to exploit the emergence of genomics and systems-level information in biology, and will shape the future of medicine.

PLANT BIOLOGY

Garland Science Plant Biology is a new textbook written for upper-level undergraduate and graduate students. It is an account of modern plant science, reflecting recent advances in genetics and genomics and the excitement they have created. The book begins with a review of what is known about the origins of modern-day plants. Next, the special features of plant genomes and genetics are explored. Subsequent chapters provide information on our current understanding of plant cell biology, plant metabolism, and plant developmental biology, with the remaining three chapters outlining the interactions of plants with their environments. The final chapter discusses the relationship of plants with humans: domestication, agriculture and crop breeding. Plant Biology contains over 1,000

full color illustrations, and each chapter begins with Learning Objectives and concludes with a Summary.

SYSTEMS BIOLOGY OF CELL SIGNALING

RECURRING THEMES AND QUANTITATIVE MODELS

Garland Science How can we understand the complexity of genes, RNAs, and proteins and the associated regulatory networks? One approach is to look for recurring types of dynamical behavior. Mathematical models prove to be useful, especially models coming from theories of biochemical reactions such as ordinary differential equation models. Clever, careful experiments test these models and their basis in specific theories. This textbook aims to provide advanced students with the tools and insights needed to carry out studies of signal transduction drawing on modeling, theory, and experimentation. Early chapters summarize the basic building blocks of signaling systems: binding/dissociation, synthesis/destruction, and activation/inactivation. Subsequent chapters introduce various basic circuit devices: amplifiers, stabilizers, pulse generators, switches, stochastic spike generators, and oscillators. All chapters consistently use approaches and concepts from chemical kinetics and nonlinear dynamics, including rate-balance analysis, phase plane analysis, nullclines, linear stability analysis, stable nodes, saddles, unstable nodes, stable and unstable spirals, and bifurcations. This textbook seeks to provide quantitatively inclined biologists and biologically inclined physicists with the tools and insights needed to apply modeling and theory to interesting biological processes. Key Features: · Full-color illustration program with diagrams to help illuminate the concepts · Enables the reader to apply modeling and theory to the biological processes · Further Reading for each chapter · High-quality figures available for instructors to download