

## Bio12 Nervous System Review Answers

BiologyThe Origin of Species by Means of Natural SelectionExcel HSC BiologyEndocrinology at a GlanceEssential Cell BiologyConcepts in Bioscience EngineeringTechnology, Sustainability and Educational Innovation (TSIE)Project RetrosightPediatric Inflammatory Bowel DiseaseMechanism of Action of Antieukaryotic and Antiviral CompoundsExporting EntertainmentBiology 2eThe Alkali Metal Ions in BiologyMiller & Levine Biology 2010The Book of Householder KoansFluid Homeostasis During ExerciseHuman Anatomy & PhysiologyCurrent Protocols Essential Laboratory TechniquesAnatomy and Physiology of AnimalsThe Na,K-ATPaseBiology for AP ® CoursesPeriodontologyHindu Kush-Himalaya Watersheds Downhill: Landscape Ecology and Conservation PerspectivesThe Mie TheoryBiological and Environmental Chemistry of DMSP and Related Sulfonium CompoundsDiversified Health Occupations (Book Only)Concepts of BiologyRabies Symptoms, Diagnosis, Prophylaxis and TreatmentThe Oxford Handbook of Comparative Evolutionary PsychologyBiology 12A Textbook of NeuroanatomyAcute Exposure Guideline Levels for Selected Airborne ChemicalsThe Heart in Rheumatic, Autoimmune and Inflammatory DiseasesBiologyReview of the state of the world fishery resources: Inland fisheriesImage DatabasesOrigin and Continuity of Cell OrganellesPrentice Hall BiologyPreparing for the Biology AP ExamBiology

### Biology

### The Origin of Species by Means of Natural Selection

### Excel HSC Biology

This volume brings together leading experts in comparative and evolutionary psychology. Top scholars summarize the histories and possible futures of their disciplines, and the contribution of each to illuminating the evolutionary forces that give rise to unique abilities in distantly and closely related species.

### Endocrinology at a Glance

Known for its thorough coverage of diversity, ecology, and environmental issues, this comprehensive book engages you with integrated, relevant case studies, and challenges you with thought-provoking questions throughout each chapter. The fully revised Biology: Life on Earth, Ninth Edition, has the same friendly writing style appreciated by thousands of students,

but with greater emphasis on engaging, real-world applications. New to this edition are “Case Study Continued” sections, which connect a chapter's case study to relevant biological topics covered in the chapter, and “Have you ever wondered?” features that respond to commonly asked questions from students. Thoroughly revised illustrations and expanded critical thinking questions have been added to each chapter and are supplemented by the powerful new MasteringBiology™ program that helps you make effective use of your study time outside of the classroom. For coverage of plant and animal anatomy & physiology, an alternate edition—Biology: Life on Earth with Physiology, Ninth Edition—is also available.

## **Essential Cell Biology**

The latest title from the acclaimed Current Protocols series, Current Protocols Essential Laboratory Techniques, 2e provides the new researcher with the skills and understanding of the fundamental laboratory procedures necessary to run successful experiments, solve problems, and become a productive member of the modern life science laboratory. From covering the basic skills such as measurement, preparation of reagents and use of basic instrumentation to the more advanced techniques such as blotting, chromatography and real-time PCR, this book will serve as a practical reference manual for any life science researcher. Written by a combination of distinguished investigators and outstanding faculty, Current Protocols Essential Laboratory Techniques, 2e is the cornerstone on which the beginning scientist can develop the skills for a successful research career.

## **Concepts in Bioscience Engineering**

## **Technology, Sustainability and Educational Innovation (TSIE)**

The first volume of the series, on "The Stability of the Differentiated State" received many favorable reviews from the scientific community. Many readers seem to agree with us that publication of topical volumes is a worthwhile alternative to periodic compilations of rather unrelated, though up-to-date reviews. Production of topical volumes is however, plagued with one great difficulty, that of "author synchronization". This difficulty explains the lag between volumes 1 and 2 of the series. Nevertheless we hope that the present volume will be appreciated as a valuable source of information on its central topic: How do cell organelles originate, and what mechanisms assure their continuity? Tübingen, Berlin, Zürich, W.  
BEERMANN, J. REINERT, H. URSPRUNG, Heidelberg H. -W. HA GENS Contents Assembly, Continuity, and Exchanges in Certain Cytoplasmic Membrane Systems by W. GORDON WHALEY, MARIANNE DAUWALDER, aüd JOYCE E. KEPHART 1 I. The Nature of the Membrane. . . . . H. The Assembly of Membranes . . . . . 5 III. The Growth and Transfer of Membranes. 6 A. The Nuclear Envelopc . . . 6 B. The Endoplasmic Reticulum 13 C. The Golgi Apparatus . 17 D. The Plasma Membrane 28 E.

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## Project Retrosight

The FAO Fishery and Aquaculture Circular C942 Revision 3 (C942 Rev. 3) updates and expands the scope of previous revisions of the circular. C942 Rev. 3 is an important baseline document, intended to assist in the global understanding of inland fisheries and inform dialogue on their current and future role. The third revision reviews the status and trends of inland fisheries catch at global, continental and subcontinental levels. It places inland capture fisheries in the context of overall global fish production, and calls attention to the importance of inland capture fisheries with respect to food security and nutrition and the Sustainable Development Goals. It quantifies global inland fisheries resources in terms of food production, nutrition, employment, economic contribution with respect to those countries/regions or subnational areas where they are important. A characterization approach to distinguish large-scale and small-scale fishing operations and their relative contributions is provided. The review provides estimated economic values of inland fisheries, as well as a valuation of potential replacement cost of these (in terms of dollars, other resources such as land and water, feeds). There is also an analysis of the extent and economic value of recreational inland fisheries. The contribution to employment and the gender differences related to this are quantified. The linkages between inland fisheries and biodiversity are also explored. C942 Rev. 3 discusses ways to measure and assess inland fisheries, in particular, how to establish more accurately inland fishery catches in the many situations where there are challenges to collection of catch statistics.

## Pediatric Inflammatory Bowel Disease

Newly revised and updated, A Textbook of Neuroanatomy, Second Edition is a concise text designed to help students easily master the anatomy and basic physiology of the nervous system. Accessible and clear, the book highlights interrelationships between systems, structures, and the rest of the body as the chapters move through the various regions of the brain. Building on the solid foundation of the first edition, A Textbook of Neuroanatomy now includes two new chapters on the brainstem and reflexes, as well as dozens of new micrographs illustrating key structures. Throughout the book the clinical relevance of the material is emphasized through clinical cases, questions, and follow-up discussions in each chapter, motivating students to learn the information. A companion website is also available, featuring study aids and artwork from the book as PowerPoint slides. A Textbook of Neuroanatomy, Second Edition is an invaluable resource for students of general, clinical and behavioral neuroscience and neuroanatomy.

## **Mechanism of Action of Antieukaryotic and Antiviral Compounds**

Prentice Hall Biology utilizes a student-friendly approach that provides a powerful framework for connecting the key concepts of biology. New BIG IDEAs help all students focus on the most important concepts. Students explore concepts through engaging narrative, frequent use of analogies, familiar examples, and clear and instructional graphics. Now, with Success Tracker(tm) online, teachers can choose from a variety of diagnostic and benchmark tests to gauge student comprehension. Targeted remediation is available too! Whether using the text alone or in tandem with exceptional ancillaries and technology, teachers can meet the needs of every student at every learning level. With unparalleled reading support, resources to reach every student, and a proven research-based approach, authors Kenneth Miller and Joseph Levine continue to set the standard. Prentice Hall Biology delivers: Clear, accessible writing Up-to-date content A student friendly approach A powerful framework for connecting key concepts

## **Exporting Entertainment**

### **Biology 2e**

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.

## **The Alkali Metal Ions in Biology**

### **Miller & Levine Biology 2010**

Endocrinology at a Glance is designed to be a concise, readily accessible introduction and revision aid for undergraduate medical and science students. The book follows the popular, easy-to-use at a Glance format, presenting each topic as a double-page-spread. Clear, informative diagrams are accompanied by key facts to explain the mechanisms and principles of endocrinology. For ease of understanding, the book is divided into sections based on the main endocrine organs. Each section explains organ anatomy, hormone production, storage and control of release, receptors, antagonists, mechanism of action, effects and inactivation. The clinical application of scientific concepts is emphasized throughout the book.

## **The Book of Householder Koans**

Pediatric Inflammatory Bowel Disease, Second Edition provides an essential reference with an emphasis on the unique pediatric issues of IBD. Chapters focus on complications of IBD specific to children and adolescents. Treatment recommendations are based on the latest clinical research available. The textbook also presents sections dedicated to the aspects of participation in clinical research unique to children and adolescents and the complicated yet vital process of successfully transitioning a patient from a pediatric to adult specialist. Controversies in pediatric IBD care such as the off-label use of medications are also covered. The format incorporates multiple tables, graphs, and figures to improve readability and make for an efficient reference for clinicians to use. Thoroughly revised and updated from the first edition, the volumes includes new therapies that are currently being used or tested for treatment of IBD, important areas regarding incidence and prevalence, immunization and response to vaccine administration as well as advancements in our understanding of growth and development with particular to the use of growth hormone therapy. Other new areas covered include important topics of complementary and alternative medicine use in IBD, immunization, and liver disease in IBD. Pediatric Inflammatory Bowel Disease, Second Edition is a valuable resource for pediatric gastroenterologists as well as adult gastroenterologists.

## **Fluid Homeostasis During Exercise**

This book is a printed edition of the Special Issue "Rabies Symptoms, Diagnosis, Prophylaxis and Treatment" that was published in TropicalMed

## **Human Anatomy & Physiology**

Biology 2e (2nd edition) is designed to cover the scope and sequence requirements of a typical two-semester biology course for science majors. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology includes rich features that engage students in scientific inquiry, highlight careers in the biological sciences, and offer everyday applications. The book also includes various types of practice and homework questions that help students understand -- and apply -- key concepts. The 2nd edition has been revised to incorporate clearer, more current, and more dynamic explanations, while maintaining the same organization as the first edition. Art and illustrations have been substantially improved, and the textbook features additional assessments and related resources.

## **Current Protocols Essential Laboratory Techniques**

## **Anatomy and Physiology of Animals**

### **The Na,K-ATPase**

Biology for AP<sup>®</sup> courses covers the scope and sequence requirements of a typical two-semester Advanced Placement<sup>®</sup> biology course. The text provides comprehensive coverage of foundational research and core biology concepts through an evolutionary lens. Biology for AP<sup>®</sup> Courses was designed to meet and exceed the requirements of the College Board's AP<sup>®</sup> Biology framework while allowing significant flexibility for instructors. Each section of the book includes an introduction based on the AP<sup>®</sup> curriculum and includes rich features that engage students in scientific practice and AP<sup>®</sup> test preparation; it also highlights careers and research opportunities in biological sciences.

### **Biology for AP <sup>®</sup> Courses**

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

### **Periodontology**

The explosive growth of multimedia data transmission has generated a critical need for efficient, high-capacity image databases, as well as powerful search engines to retrieve image data from them. This book brings together contributions by an international all-star team of innovators in the field who share their insights into all key aspects of image database and

search engine construction. Readers get in-depth discussions of the entire range of crucial image database architecture, indexing and retrieval, transmission, display, and user interface issues. And, using examples from an array of disciplines, the authors present cutting-edge applications in medical imagery, multimedia communications, earth science, remote sensing, and other major application areas.

### **Hindu Kush-Himalaya Watersheds Downhill: Landscape Ecology and Conservation Perspectives**

THE MADER/WINDELSPECHT STORY... The twelfth edition of Biology is a traditional, comprehensive introductory biology textbook, with coverage from Cell Structure and Function to the Conservation of Biodiversity. The book, which centers on the evolution and diversity of organisms, is appropriate for any one- or two-semester biology course. Biology, 12th Edition is the epitome of Sylvia Mader's expertise. Its concise, precise writing-style employs lucid language to present the material as succinctly as possible, enabling students—even non-majors—to master the foundational concepts before coming to class. “Before You Begin”, “Following the Themes”, and “Thematic Feature Readings” piece together the three major themes of the text—evolution, nature of science, and biological systems. Students are consistently engaged in these themes, revealing the interconnectedness of the major topics in biology. Sylvia Mader typifies an icon of science education. Her dedication to her students, coupled with her clear, concise writing-style has benefited the education of thousands of students over the past three decades. The integration of the text and digital world has been achieved with the addition of Dr. Michael Windelspecht's facility for the development of digital learning assets. For over ten years, Michael served as the Introductory Biology Coordinator at Appalachian State University—a program that enrolls over 4,500 non-science majors annually. Michael is the lead architect in the design of McGraw-Hill's Connect Plus and LearnSmart media content for the Mader series. These assets allow instructors to easily design interactive tutorial materials, enhance presentations in both online and traditional environments, and assess the learning objectives and outcomes of the course.

### **The Mie Theory**

When Antibiotics I was published in 1967, the teleological view was held by some that "antibiotics" were substances elaborated by certain microorganisms for the purpose of competing with other microorganisms for survival in mixed ecological environments. However, not only had J. EHRLICH and his associates shown 15 years earlier that chloramphenicol was produced by *Streptomyces venezuelae* in cultures of sterilized soils but not in parallel cultures of the same soils which were not sterilized, but operationally, the search for anti cancer antibiotics was actively under way (Antibiotics I reporting on numerous such substances), although the concept of antibiosis could not logically justify such undertakings. This editor hesitates to accept the use of the term "antibiotic" for anti microbial agents of non microbiological origins which is

sometimes encountered, but neither does he subscribe to the view that antibiotics are in some fundamental manner different from chemotherapeutic substances of other origins. Modes and mechanisms of action of chemotherapeutic compounds are not systematic functions of their origins nor of the taxonomical position of the target organisms. Consequently, in the selection of topics for Antibiotics III (published in 1975), synthetic drugs and natural products of higher plants (alkaloids) were represented, along with antibiotics in the strict sense of the definition. We now present Antibiotics V, for whose assembly the same selection criteria were applied as for Antibiotics III. The aggregate length of the contributions rendered it impractical to place the entire text between the covers of one book.

### **Biological and Environmental Chemistry of DMSP and Related Sulfonium Compounds**

This book presents in a concise way the Mie theory and its current applications. It begins with an overview of current theories, computational methods, experimental techniques, and applications of optics of small particles. There is also some biographic information on Gustav Mie, who published his famous paper on the colour of Gold colloids in 1908. The Mie solution for the light scattering of small spherical particles set the basis for more advanced scattering theories and today there are many methods to calculate light scattering and absorption for practically any shape and composition of particles. The optics of small particles is of interest in industrial, atmospheric, astronomic and other research. The book covers the latest developments in divers fields in scattering theory such as plasmon resonance, multiple scattering and optical force.

### **Diversified Health Occupations (Book Only)**

Key Benefit: Fred and Theresa Holtzclaw bring over 40 years of AP Biology teaching experience to this student manual. Drawing on their rich experience as readers and faculty consultants to the College Board and their participation on the AP Test Development Committee, the Holtzclaws have designed their resource to help your students prepare for the AP Exam. \* Completely revised to match the new 8th edition of Biology by Campbell and Reece. \* New Must Know sections in each chapter focus student attention on major concepts. \* Study tips, information organization ideas and misconception warnings are interwoven throughout. \* New section reviewing the 12 required AP labs. \* Sample practice exams. \* The secret to success on the AP Biology exam is to understand what you must know—and these experienced AP teachers will guide your students toward top scores! Market Description: Intended for those interested in AP Biology.

### **Concepts of Biology**

This project explores the impacts arising from cardiovascular and stroke research funded 15-20 years ago and attempts to draw out aspects of the research, researcher or environment that are associated with high or low impact. The project is a

case study-based review of 29 cardiovascular and stroke research grants, funded in Australia, Canada and UK between 1989 and 1993. The case studies focused on the individual grants but considered the development of the investigators and ideas involved in the research projects from initiation to the present day. Grants were selected through a stratified random selection approach that aimed to include both high- and low-impact grants. The key messages are as follows: 1. The cases reveal that a large and diverse range of impacts arose from the 29 grants studied. 2. There are variations between the impacts derived from basic biomedical and clinical research. 3. There is no correlation between knowledge production and wider impacts. 4. The majority of economic impacts identified come from a minority of projects. 5. We identified factors that appear to be associated with high and low impact. This report presents the key observations of the study and an overview of the methods involved. It has been written for funders of biomedical and health research and health services, health researchers, and policy makers in those fields. It will also be of interest to those involved in research and impact evaluation.

## **Rabies Symptoms, Diagnosis, Prophylaxis and Treatment**

## **The Oxford Handbook of Comparative Evolutionary Psychology**

No Marketing Blurb

## **Biology 12**

## **A Textbook of Neuroanatomy**

## **Acute Exposure Guideline Levels for Selected Airborne Chemicals**

This book is the eighth volume in the series Acute Exposure Guideline Levels for Selected Airborne Chemicals, and reviews AEGLs for acrolein, carbon monoxide, 1,2-dichloroethene, ethylenimine, fluorine, hydrazine, peracetic acid, propylenimine, and sulfur dioxide for scientific accuracy, completeness, and consistency with the NRC guideline reports.

## **The Heart in Rheumatic, Autoimmune and Inflammatory Diseases**

"An essential book for people working in the area of sulfur compounds in the environment and should be in all institutional

libraries. Well indexed, well presented." --- SGM Quarterly, November 1997 "Extremely useful and well-produced symposium volume that should be of interest to many environmental scientists, microbial and plant physiologists, and aquatic ecologists." The Quarterly Review of Biology, June 1998

### **Biology**

The prevalence of autoimmune diseases and rheumatic conditions is constantly increasing. Autoimmune diseases affect approximately 7-10% of the population of the United States, while more than 50,000,000 American adults suffer from some type of arthritis. The Heart in Rheumatic, Autoimmune and Inflammatory Diseases examines the complex mechanisms relating to cardiac diseases from a pathophysiological and clinical point of view. Autoimmune rheumatic diseases can affect the coronary vessels, myocardium, pericardium, heart valves and the conduction system. The diagnosis of these unique cardiac complications necessitates medical awareness and a high index of suspicion. Increased risk of advanced atherosclerosis plays a pivotal role in the development of cardiac diseases in systemic, rheumatic and autoimmune illnesses. Yet, other complex immune mediated mechanisms may contribute to the pathogenesis. Patients' optimal care requires coordination between the primary caregiver, the rheumatologist, immunologist and cardiologist. Screening for cardiovascular risk factors, recognition of high-risk patients and identification of subclinical cardiac conditions are of great importance. Moreover, regulation of inflammation, as well as abnormal immune responses and the initiation of early treatments should be the focus of patient management. A continuous attempt to identify novel therapeutic targets and change the natural history of the underlying disease and its cardiac manifestations is in progress. The book aims at providing the readers with a state of the art collection of up to date information regarding clinically important topics based on experts' perspectives. This book was a result of an extended coordinated collaboration of one-hundred and fifty-four distinguished scientists from thirty-one countries around the globe. A review of common, as well as unusual (yet clinically significant) medical cardiac complications of prevalent rheumatic, autoimmune and inflammatory diseases. Focuses on aspects of pathophysiological processes, clinical presentations, screening tests, prognostic implications and novel therapeutic approaches. Presents an up-to-date "level of evidence and "strengths of recommendations for suggested therapies and reviews all randomized clinical trials, meta-analyses and other supporting published clinical findings.

### **Review of the state of the world fishery resources: Inland fisheries**

Zen koans, beginning some 1500 years ago, refer to stories or questions arising in encounters between monks and old Chinese and Japanese masters, and include commentaries designed to help the Zen practitioner awaken. Koans like Hakuin's "What is the sound of one hand clapping?" are well-known, and the word koan has even gone mainstream. Thousands of classic koans emerged from the lives of monks living inside a Chinese or Japanese culture, and the

commentaries on those koans contain poetic elements and images that have proved challenging for many Westerners. The Book of Householder Koans is a collection of koans created by 21st century Zen practitioners living a lay life in the West. The koans deal with the challenges of relationships, raising children, work, money, love, loss, old age, and death, and come from practitioners across three continents, and with commentaries by two Western teachers. The collection is based on the premise that our lives as householders contain situations rich with challenge and grit, the equivalents of old Zen masters' shouts or blows meant to sweep the ground right from under their students. They become koans, or koan practice, when they jolt us out of our usual way of thinking, when we're no longer observers of our lives but plunge in, closing the gap between ourselves and the situation we face.

### **Image Databases**

This text addresses the question, How does the sodium pump pump'. A variety of primary structure information is available, and progress has been made in the functional characterization of the Na, K-pump, making the answer to this question possible, within reach of currently used techniques

### **Origin and Continuity of Cell Organelles**

Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

### **Prentice Hall Biology**

### **Preparing for the Biology AP Exam**

This textbook teaches bioengineers critical concepts about protein three dimensional structures, how proteins fold, and how the folding affects the functioning of the protein. Protein folding has profound effects on the discovery of biopharmaceutical drugs (especially the transport of immunological compounds to their site of action) as well as on tissue engineering. Dr. Dods covers topics in easily understood terms through the use of glossaries heading each chapter and footnotes and summaries at the end of each chapter. The chapters cover disordered proteins and large sequences of disorder that exists within proteins, secondary structure ( $\alpha$ -helix and  $\beta$ -pleated structure), tertiary and quaternary structure, post-translational changes, proteopathies, bioengineering approaches used to study protein folding, and computer software for protein folding. For each of these topics the elements of biomolecular imaging, cellular and tissue engineering, and health care

systems engineering are built. Molecular engineering concepts such as site-directed mutagenesis are addressed. For reinforcement of the concepts presented in this text, activities and problems (Queries) are included in the chapter.

### **Biology**

This book presents the proceedings of International Conference on Knowledge Society: Technology, Sustainability and Educational Innovation (TSIE 2019). The conference, which was held at UTN in Ibarra, Ecuador, on 3–5 July 2019, allowed participants and speakers to share their research and findings on emerging and innovative global issues. The conference was organized in collaboration with a number of research groups: Group for the Scientific Research Network (e-CIER); Research Group in Educational Innovation and Technology, University of Salamanca, Spain(GITE-USAL); International Research Group for Heritage and Sustainability (GIIPS), and the Social Science Research Group (GICS). In addition, it had the endorsement of the RedCLARA, e-science, Fidal Foundation, Red CEDIA, IEEE, Microsoft, Business IT, Adobe, and Argo Systems. The term “knowledge society” can be understood as the management, understanding and co-creation of knowledge oriented toward the sustainable development and positive transformation of society. In this context and on the occasion of the XXXIII anniversary of the Universidad Técnica del Norte (UTN), the Postgraduate Institute through its Master of Technology and Educational Innovation held the I International Congress on Knowledge Society: Technology, Sustainability and Educational Innovation – TSIE 2019, which brought together educators, researchers, academics, students, managers, and professionals, from both the public and private sectors to share knowledge and technological developments. The book covers the following topics: 1. curriculum, technology and educational innovation; 2. media and education; 3. applied computing; 4. educational robotics. 5. technology, culture, heritage, and tourism development perspectives; and 6. biodiversity and sustainability.

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