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Biology and Management of White-tailed Deer - David G. Hewitt 2011-06-24

Winner of the Wildlife Society Outstanding Edited Book Award for 2013! Winner of the Texas Chapter of The Wildlife Society Outstanding Book Award for 2011! Winner of a CHOICE Outstanding Academic Title Award for 2011! *Biology and Management of White-tailed Deer* organizes and presents information on the most studied large mammal species in the world. T

Contemporary Practice in Clinical Chemistry - William Clarke 2020-06-11

Contemporary Practice in Clinical Chemistry, Fourth Edition, provides a clear and concise overview of important topics in the field. This new edition is useful for students, residents and fellows in clinical chemistry and pathology, presenting an introduction and overview of the field to assist readers as they in review and prepare for board certification examinations. For new medical technologists, the book provides context for understanding the clinical utility of tests that they perform or use in other areas in the clinical laboratory. For experienced laboratorians, this revision continues to provide an opportunity for exposure to more recent trends and developments in clinical chemistry. Includes enhanced illustration and new and revised color figures Provides improved self-assessment questions and end-of-chapter assessment questions

Preparing for the Biology AP Exam - Neil A. Campbell 2009-11-03

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!

Applied Statistics in Agricultural, Biological, and Environmental Sciences - Barry Glaz 2020-01-22

Better experimental design and statistical analysis make for more robust science. A thorough understanding of modern statistical methods can mean the difference between discovering and missing crucial results and conclusions in your research, and can shape the course of your entire research career. With *Applied Statistics*, Barry Glaz and Kathleen M. Yeater have worked with a team of expert authors to create a comprehensive text for graduate students and practicing scientists in the agricultural, biological, and environmental sciences. The contributors cover fundamental concepts and methodologies of experimental design and analysis, and

also delve into advanced statistical topics, all explored by analyzing real agronomic data with practical and creative approaches using available software tools. IN PRESS! This book is being published according to the "Just Published" model, with more chapters to be published online as they are completed.

FRET - Förster Resonance Energy Transfer - Igor L. Medintz 2013-10-17

Meeting the need for an up-to-date and detailed primer on all aspects of the topic, this ready reference reflects the incredible expansion in the application of FRET and its derivative techniques over the past decade, especially in the biological sciences. This wide diversity is equally mirrored in the range of expert contributors. The book itself is clearly subdivided into four major sections. The first provides some background, theory, and key concepts, while the second section focuses on some common FRET techniques and applications, such as in vitro sensing and diagnostics, the determination of protein, peptide and other biological structures, as well as cellular biosensing with genetically encoded fluorescent indicators. The third section looks at recent developments, beginning with the use of fluorescent proteins, followed by a review of FRET usage with semiconductor quantum dots, along with an overview of multistep FRET. The text concludes with a detailed and greatly updated series of supporting tables on FRET pairs and Förster distances, together with some outlook and perspectives on FRET. Written for both the FRET novice and for the seasoned user, this is a must-have resource for office and laboratory shelves.

CliffsNotes AP Biology 2021 Exam - Phillip E. Pack 2020-08-04

CliffsNotes AP Biology 2021 Exam gives you exactly what you need to score a 5 on the exam: concise chapter reviews on every AP Biology subject, in-depth laboratory investigations, and full-length model practice exams to prepare you for the May 2021 exam. Revised to even better reflect the new AP Biology exam, this test-prep guide includes updated content tailored to the May 2021 exam. Features of the guide focus on what AP Biology test-takers need to score high on the exam: Reviews of all subject areas In-depth coverage of the all-important laboratory investigations Two full-length model practice AP Biology exams Every review chapter includes review questions and answers to pinpoint problem areas.

Microeconometrics - A. Colin Cameron 2005-05-09

This book provides the most comprehensive treatment to date of microeconometrics, the analysis of individual-level data on the economic behavior of individuals or firms using regression methods for cross section and panel data. The book is oriented to the practitioner. A basic understanding of the linear regression model with matrix algebra is assumed. The text can be used for a microeconometrics course, typically a second-year economics PhD course; for data-oriented applied microeconometrics field courses; and as a reference work for graduate students and applied researchers who wish to fill in gaps in their toolkit. Distinguishing

features of the book include emphasis on nonlinear models and robust inference, simulation-based estimation, and problems of complex survey data. The book makes frequent use of numerical examples based on generated data to illustrate the key models and methods. More substantially, it systematically integrates into the text empirical illustrations based on seven large and exceptionally rich data sets.

An Introduction to Environmental Biophysics - Gaylon S. Campbell 2012-12-06

From reviews of the first edition: "well organized . . . Recommended as an introductory text for undergraduates" -- AAAS Science Books and Films "well written and illustrated" -- Bulletin of the American Meteorological Society
Safe Passages - Jon P. Beckmann 2012-04-20

Safe Passages brings together in a single volume the latest information on the emerging science of road ecology as it relates to mitigating interactions between roads and wildlife. This practical handbook of tools and examples is designed to assist individuals and organizations thinking about or working toward reducing road-wildlife impacts. The book provides: an overview of the importance of habitat connectivity with regard to roads current planning approaches and technologies for mitigating the impacts of highways on both terrestrial and aquatic species different facets of public participation in highway-wildlife connectivity mitigation projects case studies from partnerships across North America that highlight successful on-the-ground implementation of ecological and engineering solutions recent innovative highway-wildlife mitigation developments Detailed case studies span a range of scales, from site-specific wildlife crossing structures, to statewide planning for habitat connectivity, to national legislation.

Contributors explore the cooperative efforts that are emerging as a result of diverse organizations—including transportation agencies, land and wildlife management agencies, and nongovernmental organizations—finding common ground to tackle important road ecology issues and problems. *Safe Passages* is an important new resource for local-, state-, and national-level managers and policymakers working on road-wildlife issues, and will appeal to a broad audience including scientists, agency personnel, planners, land managers, transportation consultants, students, conservation organizations, policymakers, and citizens engaged in road-wildlife mitigation projects.

Study Guide for Campbell Biology - Jane Reece 2011-04-26

Students can master key concepts and earn a better grade with the thought-provoking exercises found in this study guide. A wide range of questions and activities helps students test their understanding of biology.

Biology for AP® Courses - Julianne Zedalis 2017-10-16

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

New Directions in Public Opinion - Adam J. Berinsky 2015-12-21

The field of public opinion is one of the most diverse in political science. Over the last 60 years, scholars have drawn upon the disciplines of psychology, economics, sociology, and even biology to learn how ordinary people come to understand the complicated business of politics. But much of the path-breaking

research in the field of public opinion is published in journals, taking up fairly narrow questions one at a time and often requiring advanced statistical knowledge to understand these findings. As a result, the study of public opinion can seem confusing and incoherent to undergraduates. To engage undergraduate students in this area, a new type of textbook is required. The second edition of *New Directions in Public Opinion* brings together leading scholars to provide an accessible and coherent overview of the current state of the field of public opinion. Each chapter provides a general overview of topics that are at the cutting edge of study as well as well-established cornerstones of the field. Each contributor has made substantive revisions to their chapters, and three chapters have been added on genetics and biology, immigration, and political extremism and the Tea Party. Suitable for use as a main textbook or in tandem with a lengthier survey, this book comprehensively covers the topics of public opinion research and pushes students further to explore critical topics in contemporary politics.

Discovering Genomics, Proteomics, and Bioinformatics - A. Malcolm Campbell 2007

Discovering Genomics is the first genomics text that combines web activities and case studies with a problem-solving approach to teach upper-level undergraduates and first-year graduate students the fundamentals of genomic analysis. More of a workbook than a traditional text, *Discovering Genomics, Second Edition* allows students to work with real genomic data in solving problems and provides the user with an active learning experience. The companion website at

www.aw-bc.com/geneticsplace is regularly updated to keep up with changes to online databases. The Second Edition has been thoroughly revised and updated to incorporate the latest scientific findings on popular topics such as disease-causing organisms and genetic defects. Case study chapters have been placed throughout the book to tie real-life scenarios into the concepts that follow. Two of the book's key pedagogical features, Discovery Questions and Math Minutes, have also been updated and expanded. The interactive companion website has been reprogrammed with JMOL, the latest 3-D software used to view DNA structures.

How Tobacco Smoke Causes Disease - 2010

This report considers the biological and behavioral mechanisms that may underlie the pathogenicity of tobacco smoke. Many Surgeon General's reports have considered research findings on mechanisms in assessing the biological plausibility of associations observed in epidemiologic studies. Mechanisms of disease are important because they may provide plausibility, which is one of the guideline criteria for assessing evidence on causation. This report specifically reviews the evidence on the potential mechanisms by which smoking causes diseases and considers whether a mechanism is likely to be operative in the production of human disease by tobacco smoke. This evidence is relevant to understanding how smoking causes disease, to identifying those who may be particularly susceptible, and to assessing the potential risks of tobacco products.

Varc Carolis' Foundations of Psychiatric Mental Health Nursing - Margaret Jordan Halter 2014

Rev. ed. of: *Foundations of psychiatric mental health nursing* / [edited by] Elizabeth M. Varc Carolis, Margaret Jordan Halter. 6th ed. c2010.

Campbell Essential Biology - Eric Jeffrey Simon 2013

Campbell Essential Biology, Fifth Edition, makes biology irresistibly interesting for non-majors biology students. This best-selling book, known for its scientific accuracy and currency, makes biology relevant and approachable with increased use of analogies, real world examples, more conversational language, and intriguing questions. *Campbell Essential Biology* ... make biology irresistibly interesting.

NOTE: This is the standalone book, if you want the book/access card package order the ISBN below; 0321763335 / 9780321763334 Campbell Essential Biology Plus MasteringBiology with eText -- Access Card Package Package consists of: 0321772598 / 9780321772596 Campbell Essential Biology 0321791711 / 9780321791719 MasteringBiology with Pearson eText -- Valuepack Access Card -- for Campbell Essential Biology (with Physiology chapters)

Biology: The Unity and Diversity of Life - Cecie Starr 2011-01-11

By using an issues-oriented approach, the new edition of this respected text grabs student interest with real-life issues that hit home. This text includes new coverage and pedagogy that encourages students to think critically about hot-button issues and includes outstanding new features that take students beyond memorization and encourage them to ask questions in new ways as they learn to interpret data. Show students how biology matters Biology's connections to real life are reflected in every chapter of this new edition, beginning with opening Impacts, Issues essays a brief case study on a biology-related issue or research finding and is revisited throughout the chapter, reminding students of the real-world significance of basic concepts. Additional, online exercises promote critical thinking about issues students will face as consumers, parents, and citizens. Link concepts from chapter to chapter Links to Earlier Concepts appear near the Key Concepts, to help students remember what they've learned in earlier chapters and apply it to the new material to come. At the beginning of each section, students are reminded of the earlier link that is most appropriate for their current. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Cytoplasmic Genes and Organelles - Ruth Sager 2012-12-02

Cytoplasmic Genes and Organelles is about cytoplasmic genes: what they are and what they do. It applies the concepts and methods of cytoplasmic genetics to the problems of cell and molecular biology to which they can uniquely contribute. It shows geneticists the many attractive problems in this area awaiting their attention; cell biologists and biochemists the usefulness of cytoplasmic genetic analysis in their endeavors; and students the potential power of an integrated experimental approach using cytoplasmic genes together with the more conventional tools of biochemistry and electron microscopy in the investigation of organelle biogenesis. The book treats the following aspects of cytoplasmic genetic systems: (1) the properties of cytoplasmic DNA; (2) the genetic analysis of cytoplasmic systems; and (3) the functions of cytoplasmic genes in organelle biogenesis. The opening chapter summarizes the principal findings to provide readers with a bird's eye view of the subject. Subsequent chapters cover topics such as cytoplasmic DNAs; cytoplasmic genes in Chlamydomonas; mitochondrial genetics of yeast; cytoplasmic genes in higher plants; the role of mitochondrial genes in mitochondrial biogenesis; and cytoplasmic genes and cell heredity.

Vascular Responses to Pathogens - Felicity N.E. Gavins 2015-10-31

Vascular Responses to Pathogens focuses on the growing research from leaders in the field for both the short and long-term impact of pathogens on the vasculature. It discusses various organisms, including bacteria, parasites, and viruses, and their role in key events leading to vascular disease. Formatted to discuss the topic of the interaction of pathogens with the vascular rather than individual diseases described separately, this reference demonstrates that common mechanisms are at play in many different diseases because they have a similar context, their vasculature. This all-inclusive reference book is a must-have tool for researchers and practicing clinicians in the areas of vascular biology, microvasculature,

cardiology, and infectious disease. Covers a wide spectrum of organisms and provides analysis of pathogens and current therapeutic strategies in the context of their vasculature Provides detailed perspectives on key components contributing to vascular pathogens from leaders in the field Interfaces between both vascular biology and microbiology by encompassing information on how pathogens affect both macro and microvasculature Includes coverage of the clinical aspects of sepsis and current therapeutic strategies and anti-sepsis drugs

Sourcebook on Violence Against Women - Claire M. Renzetti 2017-01-30

The Third Edition of this comprehensive volume covers the current state of research, theory, prevention, and intervention regarding violence against women. The book's 15 chapters are divided into three parts: theoretical and methodological issues in researching violence against women; types of violence against women; and, new to this edition, programs that work. Featuring new chapters, pedagogy, sections on controversies in the field, and autobiographical essays by leaders in grassroots anti-violence work, the Third Edition has been designed to encourage discussion and debate, to address issues of diversity and cultural contexts, and to examine inequalities of race and ethnicity, social class, physical ability, sexual orientation, and geographic location.

Campbell Biology Australian and New Zealand Edition - Jane B. Reece 2015-05-20

Over nine successful editions, CAMPBELL BIOLOGY has been recognised as the world's leading introductory biology textbook. The Australian edition of CAMPBELL BIOLOGY continues to engage students with its dynamic coverage of the essential elements of this critical discipline. It is the only biology text and media product that helps students to make connections across different core topics in biology, between text and visuals, between global and Australian/New Zealand biology, and from scientific study to the real world. The Tenth Edition of Australian CAMPBELL BIOLOGY helps launch students to success in biology through its clear and engaging narrative, superior pedagogy, and innovative use of art and photos to promote student learning. It continues to engage students with its dynamic coverage of the essential elements of this critical discipline. This Tenth Edition, with an increased focus on evolution, ensures students receive the most up-to-date, accurate and relevant information.

Give Me Liberty! An American History - Eric Foner 2016-09-15

Give Me Liberty! is the #1 book in the U.S. history survey course because it works in the classroom. A single-author text by a leader in the field, Give Me Liberty! delivers an authoritative, accessible, concise, and integrated American history. Updated with powerful new scholarship on borderlands and the West, the Fifth Edition brings new interactive History Skills Tutorials and Norton InQuizitive for History, the award-winning adaptive quizzing tool.

Lewin's GENES XII - Jocelyn E. Krebs 2017-03-02

Now in its twelfth edition, Lewin's GENES continues to lead with new information and cutting-edge developments, covering gene structure, sequencing, organization, and expression. Leading scientists provide revisions and updates in their individual field of study offering readers current data and information on the rapidly changing subjects in molecular biology.

Molecular Biology of the Cell - Bruce Alberts 2004

Biology - Mader 2017-11

Biology - Neil A. Campbell 2005

The authors have updated each of the books eight units to reflect the progress in

our understanding of life at many levels, from molecules to ecosystems. The sixth edition has a new chapter that introduces students to science as a way of knowing nature. A new feature highlights examples of the process of science throughout the book, and each chapter contains a process of science question that encourages students to experience science. Media activities allow additional practice with experimentation and analysis of data, and interviews with various researchers humanize science as a social activity.

Chromosomes Today - N. Henriquez-Gil 1996-12-31

Chromosomes Today Volume 12 records the plenary proceedings of the 12th triennial International Chromosome Conference, presenting an overview of the current concerns in the developing studies of animal, plant and human cytogenetics. As well as giving an accurate historical record of the achievements in chromosome studies, this important series points the way forward, emphasizing the areas in which new developments will take place. Volume 12 explores the complete integration of molecular biology and cytogenetics, evaluating the consensus of the world's cytogeneticists concerning the nature and activities of the chromosome. It reinforces our view of the chromosome as the genetic organelle whose structure, behaviour and modification underlie our modern concept of eukaryote genetics.

Primer to the Immune Response - Tak W. Mak 2013-12-23

Written in the same engaging conversational style as the acclaimed first edition, Primer to The Immune Response, 2nd Edition is a fully updated and invaluable resource for college and university students in life sciences, medicine and other health professions who need a concise but comprehensive introduction to immunology. The authors bring clarity and readability to their audience, offering a complete survey of the most fundamental concepts in basic and clinical immunology while conveying the subject's fascinating appeal. The content of this new edition has been completely updated to include current information on all aspects of basic and clinical immunology. The superbly drawn figures are now in full color, complemented by full color plates throughout the book. The text is further enhanced by the inclusion of numerous tables, special topic boxes and brief notes that provide interesting insights. At the end of each chapter, a self-test quiz allows students to monitor their mastery of major concepts, while a set of conceptual questions prompts them to extrapolate further and extend their critical thinking. Moreover, as part of the Academic Cell line of textbooks, Primer to The Immune Response, 2nd Edition contains research passages that shine a spotlight on current experimental work reported in Cell Press articles. These articles also form the basis of case studies that are found in the associated online study guide and are designed to reinforce clinical connections. Complete yet concise coverage of the basic and clinical principles of immunology Engaging conversational writing style that is to the point and very readable Over 200 clear, elegant color illustrations Comprehensive glossary and list of abbreviations

Principles of Behavior - Richard W. Malott 2021-03-31

Known for both its narrative style and scientific rigor, Principles of Behavior is the premier introduction to behavior analysis. Through an exploration of experimental, applied, and theoretical concepts, the authors summarize the key conversations in the field. They bring the content to life using humorous and engaging language and show students how the principles of behavior relate to their everyday lives. The text's tried-and-true pedagogy makes the content as clear as possible without oversimplifying the concepts. Each chapter includes study objectives, key terms, and review questions that encourage students to check their

understanding before moving on, and incorporated throughout the text are real-world examples and case studies to illustrate key concepts and principles. This edition features some significant organizational changes: the respondent conditioning chapter is now Chapter 1, a general introduction to operant conditioning is now covered in Chapters 2 and 3, and the introduction to research methods is now covered in Chapter 4. These changes were made to help instructors prepare students for starting a research project at the beginning of the course. Two new chapters include Chapter 5 on the philosophy supporting behavior analysis, and Chapter 24 on verbal behavior that introduces B.F. Skinner's approach and terminology. This edition also features a new full-color design and over 400 color figures, tables, and graphs. Principles of Behavior is an essential resource for both introductory and intermediate courses in behavior analysis. It is carefully tailored to the length of a standard academic semester and how behavior analysis courses are taught, with each section corresponding to a week's worth of coursework. The text can also function as the first step in a student's journey into becoming a professional behavior analyst at the BA, MA, or PhD/EdD level. Each chapter of the text is integrated with the Behavior Analyst Certification Board (BACB) task list, serving as an excellent primer to many of the BACB tasks. **Developmental Approaches to Human Evolution** - Julia C. Boughner 2016-01-22

Developmental Approaches to Human Evolution encapsulates the current state of evolutionary developmental anthropology. This emerging scientific field applies tools and approaches from modern developmental biology to understand the role of genetic and developmental processes in driving morphological and cognitive evolution in humans, non-human primates and in the laboratory organisms used to model these changes. Featuring contributions from well-established pioneers and emerging leaders, this volume is designed to build research momentum and catalyze future innovation in this burgeoning field. The book's broad research scope encompasses soft and hard tissues of the head and body, including the skeleton, special senses and the brain. Developmental Approaches to Human Evolution is an invaluable resource on the mechanisms of primate and vertebrate evolution for scholars across a wide array of intersecting disciplines, including primatology, paleoanthropology, vertebrate morphology, evolutionary developmental biology and health sciences.

Concepts of Biology - Samantha Fowler 2018-01-07

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.

Biology for NGSS. - 2016

"Biology for NGSS has been specifically written to meet the high school life science requirements of the Next Generation Science Standards (NGSS)."--Back cover.

Campbell Biology in Focus - Lisa A. Urry 2014

In 900 text pages, Campbell Biology in Focus emphasizes the essential content and scientific skills needed for success in the college introductory course for biology majors. Each unit streamlines content to best fit the needs of instructors and students, based on surveys, curriculum initiatives, reviews, discussions with hundreds of biology professors, and careful analyses of course syllabi. Every chapter includes a Scientific Skills Exercise that builds skills in graphing, interpreting data, experimental design, and math--skills biology majors need in order to succeed in their upper-level courses. This briefer book upholds the Campbell hallmark standards of accuracy, clarity, and pedagogical innovation.

Essentials of Glycobiology - Ajit Varki 1999

Sugar chains (glycans) are often attached to proteins and lipids and have multiple roles in the organization and function of all organisms. "Essentials of Glycobiology" describes their biogenesis and function and offers a useful gateway to the understanding of glycans.

The Physical Basis of Heredity - Thomas Hunt Morgan 1919

Children's Rights in Health Care - Jozef H.H.M. Dorscheidt 2018-11-22

This volume contains several analyses of health rights issues related to children. The various chapters provide an overview of this captivating area and may be of special interest to lawyers, health care professionals, ethicists, psychologists, judicial institutions, policy makers, interest groups, students and all others who are concerned with the children's rights perspective on health care.

The Liver - Irwin M. Arias 2020-01-22

Bridging the gap between basic scientific advances and the understanding of liver disease – the extensively revised new edition of the premier text in the field. The latest edition of The Liver: Biology and Pathobiology remains a definitive volume in the field of hepatology, relating advances in biomedical sciences and engineering to understanding of liver structure, function, and disease pathology and treatment. Contributions from leading researchers examine the cell biology of the liver, the pathobiology of liver disease, the liver's growth, regeneration, metabolic functions, and more. Now in its sixth edition, this classic text has been exhaustively revised to reflect new discoveries in biology and their influence on diagnosing, managing, and preventing liver disease. Seventy new chapters – including substantial original sections on liver cancer and groundbreaking advances that will have significant impact on hepatology – provide comprehensive, fully up-to-date coverage of both the current state and future direction of hepatology. Topics include liver RNA structure and function, gene editing, single-cell and single-molecule genomic analyses, the molecular biology of hepatitis, drug interactions and engineered drug design, and liver disease mechanisms and therapies. Edited by globally-recognized experts in the field, this authoritative volume: Relates molecular physiology to understanding disease pathology and treatment Links the science and pathology of the liver to practical clinical applications Features 16 new "Horizons" chapters that explore new and emerging science and technology Includes plentiful full-color illustrations and

figures The Liver: Biology and Pathobiology, Sixth Edition is an indispensable resource for practicing and trainee hepatologists, gastroenterologists, hepatobiliary and liver transplant surgeons, and researchers and scientists in areas including hepatology, cell and molecular biology, virology, and drug metabolism.

Principles of Cloning - Jose B. Cibelli 2002

"Epigenetic Principles of Evolution is a postgenetic treatment of the problem of metazoan evolution. It presents a radically novel epigenetic theory of evolution describing epigenetic mechanisms of evolutionary changes as they arise in the process of individual development. In seven chapters of Part 1 (Epigenetic Basis of Metazoan Heredity, pp. 21-216) the author introduces the reader to the epigenetic system of heredity - a function of the integrated control system. Cabej describes the dominant role of the epigenetic system of heredity in the processes of reproductive functions (chapter 3), in gametogenesis and in the process of the deposition of parental cytoplasmic factors (=epigenetic information) in gametes (chapter 4). In chapter 5 the author shows how the epigenetic information deposited in gametes in the form of maternal cytoplasmic factors determines the early embryonic development from the zygote stage to the phylotypic stage. A detailed description of the control of the postphylotypic stage of development, especially the formation of organs and organ systems, is presented in chapter 6 (p. 139-202). An outline of the main features of the epigenetic system of heredity and its relationship with the genetic system of heredity is provided in chapter 7 (203-216). Interactions between metazoan organisms and their environment, metazoan responses (especially behavioral responses) to changes in the environment and the ontogeny as a workshop of evolutionary change are dealt with in three chapters (8-10) of Part 2 (Neural-developmental premises of evolutionary adaptation, pp. 219-281). In Part 3 (chapters 11 and 12, pp. 285-339) the author deals with the mechanisms of developmental plasticity, the so-called circumevolutionary phenomena, and reveals the essential similarity between the transgenerational developmental plasticity and evolutionary change. In Part 4, Epigenetics of Metazoan Evolution (p. 341-623), the author deals in details with evolution of the control system (chapter 13, pp. 341-377), developmental mechanisms of evolutionary change in evolutionary modifications (chapter 14, pp. 379-501), evolution by loss/vestigialization of organs (chapter 15, pp. 501-541), evolution by reverting to ancestral structures (chapter 16, pp. 543-569). A special chapter is devoted to the role of the neural crest, a uniquely vertebrate structure of neural origin, in evolution of de novo metazoan structures. Evolutionary convergences and their evolutionary-epigenetic implications are discussed in chapter 18. Part 5 (p.645-732) is devoted to description of epigenetic mechanisms as determinants of species formation in sympatry. For all the cases of evolution of structures and species formation described in the book, the author presents both the conventional neoDarwinian explanation and the epigenetic explanation making it possible for the reader to assess the relative explanatory power of the genetic and epigenetic explanations. The book was published in 2008 by Albanet Publishing and contains 880 pages."--Amazon.

Human Herpesviruses - Ann Arvin 2007-08-16

This comprehensive account of the human herpesviruses provides an encyclopedic overview of their basic virology and clinical manifestations. This group of viruses includes human simplex type 1 and 2, Epstein-Barr virus, Kaposi's Sarcoma-associated herpesvirus, cytomegalovirus, HHV6A, 6B and 7, and varicella-zoster virus. The viral diseases and cancers they cause are significant and often

recurrent. Their prevalence in the developed world accounts for a major burden of disease, and as a result there is a great deal of research into the pathophysiology of infection and immunobiology. Another important area covered within this volume concerns antiviral therapy and the development of vaccines. All these aspects are covered in depth, both scientifically and in terms of clinical guidelines for patient care. The text is illustrated generously throughout and is fully referenced to the latest research and developments.

The Neurobiology of Olfaction - Anna Menini 2009-11-24

Comprehensive Overview of Advances in Olfaction The common belief is that human smell perception is much reduced compared with other mammals, so that whatever abilities are uncovered and investigated in animal research would have little significance for humans. However, new evidence from a variety of sources indicates this traditional view is likely overly simplistic. *The Neurobiology of Olfaction* provides a thorough analysis of the state-of-the-science in olfactory knowledge and research, reflecting the growing interest in the field. Authors from some of

the most respected laboratories in the world explore various aspects of olfaction, including genetics, behavior, olfactory systems, odorant receptors, odor coding, and cortical activity. Until recently, almost all animal research in olfaction was carried out on orthonasal olfaction (inhalation). It is only in recent years, especially in human flavor research, that evidence has begun to be obtained regarding the importance of retronasal olfaction (exhalation). These studies are beginning to demonstrate that retronasal smell plays a large role to play in human behavior. Highlighting common principles among various species – including humans, insects, *Xenopus laevis* (African frog), and *Caenorhabditis elegans* (nematodes) – this highly interdisciplinary book contains chapters about the most recent discoveries in odor coding from the olfactory epithelium to cortical centers. It also covers neurogenesis in the olfactory epithelium and olfactory bulb. Each subject-specific chapter is written by a top researcher in the field and provides an extensive list of reviews and original articles for students and scientists interested in further readings.