

Genetics A Conceptual Approach 4th Edition

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Genetics - D. Peter Snustad 2012

Snustad's 6th edition of Principles of Genetics offers many new and advanced features including boxed sections with the latest advances in Genetics, a streamlined roster of topics, a more reader-friendly layout, and new problem-solving supplements. Furthermore, this new edition includes more problem solving within each chapter through the Test Your Problem Solving Skills feature and a Solve It icon to prompt readers to go online to WileyPlus for animated tutorials. A new one-column design better showcases important pieces of art and avoids the "overwhelmed" reaction readers have to the crowded layouts found in many other texts. Boxed sections reduce in size to help maintain the flow of the text and the Focus On boxes are revised to include the most current developments in genetics as well as most relevant topics.

Genetics - Benjamin A. Pierce 2013-12-27

With Genetics: A Conceptual Approach, Ben Pierce brings a master teacher's experiences to the introductory genetics textbook, clarifying this complex subject by focusing on the big picture of genetics concepts and how those concepts connect to one another.

Lewin's GENES XI - 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.

Genomes 4 - T. A. Brown 2018-12-07

Genomes 4 has been completely revised and updated. It is a thoroughly modern textbook about genomes and how they are investigated. As with Genomes 3, techniques come first, then genome anatomies, followed by genome function, and finally genome evolution. The genomes of all types of organism are covered: viruses, bacteria, fungi, plants, and animals including humans and other hominids. Genome sequencing and assembly methods have been thoroughly revised including a survey of four genome projects: human, Neanderthal, giant panda, and barley. Coverage of genome annotation emphasizes genome-wide RNA mapping, with CRISPR-Cas 9 and GWAS methods of determining gene function covered. The knowledge gained from these techniques forms the basis of the three chapters that describe the three main types of genomes: eukaryotic, prokaryotic (including eukaryotic organelles), and viral (including mobile genetic elements). Coverage of genome expression and replication is truly genomic, concentrating on the genome-wide implications of DNA packaging, epigenome modifications, DNA-binding proteins, non-coding RNAs, regulatory genome sequences, and protein-protein interactions. Also included are applications of transcriptome analysis, metabolomics, and systems biology. The final chapter is on genome evolution, focusing on the evolution of the epigenome, using genomics to study human evolution, and using population genomics to advance plant breeding. Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still important. Each chapter has a set of short-answer questions, in-depth problems, and annotated further reading. There is also an extensive glossary. Genomes 4 is the ideal text for upper level courses focused on genomes and genomics.

Transmission and Population Genetics - Benjamin A. Pierce 2006-01-09

This new brief version of Benjamin Pierce's Genetics: A Conceptual Approach, Second Edition, responds to a growing trend of focusing the introductory course on transmission and population genetics and covering

molecular genetics separately. The book is comprised of following chapters and case studies from Pierce's complete text: 1. Introduction to Genetics 2. Chromosomes and Cellular Reproduction 3. Basic Principles of Heredity 4. Sex Determination and Sex-Linked Characteristics 5. Extensions and Modifications of Basic Principles 6. Pedigree Analysis and Applications INTEGRATIVE CASE STUDY Phenylketonuria: Part I 7. Linkage, Recombination, and Eukaryotic Gene Mapping 8. Bacterial and Viral Genetic Systems 9. Chromosome Variation INTEGRATIVE CASE STUDY Phenylketonuria: Part II 22. Quantitative Genetics 23. Population Genetics and Molecular Evolution INTEGRATIVE CASE STUDY Phenylketonuria: Part III *Old Questions and Young Approaches to Animal Evolution* José M. Martín-Durán 2019-07-22
Animal evolution has always been at the core of Biology, but even today many fundamental questions remain open. The field of animal 'evo-devo' is leveraging recent technical and conceptual advances in development, paleontology, genomics and transcriptomics to propose radically different answers to traditional evolutionary controversies. This book is divided into four parts, each of which approaches animal evolution from a different perspective. The first part (chapters 2 and 3) investigates how new sources of evidence have changed conventional views of animal origins, while the second (chapters 4-8) addresses the connection between embryogenesis and evolution, and the genesis of cellular, tissue and morphological diversity. The third part (chapters 9 and 10) investigates how big data in molecular biology is transforming our understanding of the mechanisms governing morphological change in animals. In closing, the fourth part (chapters 11-13) explores new theoretical and conceptual approaches to animal evolution. 'Old questions and young approaches to animal evolution' offers a comprehensive and updated view of animal evolutionary biology that will serve both as a first step into this fascinating field for students and university educators, and as a review of complementary approaches for researchers.

Multiple Sclerosis Therapeutics - Jeffrey A. Cohen 2011-10-20

This book comprehensively reviews the current state of clinical trial methods in multiple sclerosis treatment, providing investigators, sponsors and specialists with current knowledge of outcome measures and study designs for disease and symptom management. The status of the rapidly evolving field of disease-modifying drugs is presented, with emphasis on the most promising therapies currently being tested. Experts discuss disease and symptom management for MS subtypes, including neuromyelitis optica and pediatric MS. In addition, key scientific advances in MS pathology, genetics, immunology and epidemiology are presented. The fourth edition has been extensively revised, featuring more than 50% new material. All chapters have been substantially updated to provide current information on rapidly evolving topics and this volume contains 15 new chapters, reflecting the growth of the field in recent years. This book is an essential reference for practitioners caring for MS patients, investigators planning or conducting clinical trials, and clinical trial sponsors.

Neurophysiology - Roger Carpenter 2012-08-31

The latest edition of this well-established, accessible introduction to neurophysiology succeeds in integrating the disciplines of neurology and neuroscience with an emphasis on principles and functional concepts. In Neurophysiology: A Conceptual Approach, Fifth Edition, the authors deliver a refreshing alternative to "learning by rote," employing a

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.

Principles of Plant Genetics and Breeding - George Acquaah 2020-09-28

The revised edition of the bestselling textbook, covering both classical and molecular plant breeding Principles of Plant Genetics and Breeding integrates theory and practice to provide an insightful examination of the fundamental principles and advanced techniques of modern plant breeding. Combining both classical and molecular tools, this comprehensive textbook describes the multidisciplinary strategies used to produce new varieties of crops and plants, particularly in response to the increasing demands to of growing populations. Illustrated chapters cover a wide range of topics, including plant reproductive systems, germplasm for breeding, molecular breeding, the common objectives of plant breeders, marketing and societal issues, and more. Now in its third edition, this essential textbook contains extensively revised content that reflects recent advances and current practices. Substantial updates have been made to its molecular genetics and breeding sections, including discussions of new breeding techniques such as zinc finger nuclease, oligonucleotide directed mutagenesis, RNA-dependent DNA methylation, reverse breeding, genome editing, and others. A new table enables efficient comparison of an expanded list of molecular markers, including Allozyme, RFLPs, RAPD, SSR, ISSR, DAMD, AFLP, SNPs and ESTs. Also, new and updated "Industry Highlights" sections provide examples of the practical application of plant breeding methods to real-world problems. This new edition: Organizes topics to reflect the stages of an actual breeding project Incorporates the most recent technologies in the field, such as CRISPR genome editing and grafting on GM stock Includes numerous illustrations and end-of-chapter self-assessment questions, key references, suggested readings, and links to relevant websites Features a companion website containing additional artwork and instructor resources Principles of Plant Genetics and Breeding offers researchers and professionals an invaluable resource and remains the ideal textbook for advanced undergraduates and graduates in plant science, particularly those studying plant breeding, biotechnology, and genetics.

Principles of Molecular Virology - Alan Cann 2005-07-26

The fourth edition of the hugely successful Principles of Molecular Virology takes on a molecular approach, presenting the principles of virology in a clear and concise manner. This work explores and explains the fundamental aspects of virology, including structure of virus particles and genome, replication, gene expression, infection, pathogenesis and subviral agents. The self-assessment questions, glossary and abbreviations section provide excellent revision aids and serve as handy references to students, tutors and researchers alike. NEW TO FOURTH EDITION: * New material on virus structure and virus evolution * Updated pathogenesis section covering Ebola, SARS and HIV * New section on Bioterrorism * Fully updated references * New material on virus structure, virus evolution, zoonoses, bushmeat, SARS and bioterrorism *Concepts of Genetics* William S. Klug 2012

Concepts of Genetics is known for its focus on teaching core concepts and problem solving. This best-selling text has been extensively updated, with coverage on emerging topics in genetics, and problem-solving support has been enhanced.

[Solutions Manual for Genetics: A Conceptual Approach](#) - Benjamin A. Pierce 2010-12-10

Clinical Genomics - Shashikant Kulkarni 2014-11-10

Clinical Genomics provides an overview of the various next-generation sequencing (NGS) technologies that are currently used in clinical diagnostic laboratories. It presents key bioinformatic challenges and the solutions that must be addressed by clinical genomicists and genomic pathologists, such as specific pipelines for identification of the full range of variants that are clinically important. This book is also focused on the challenges of diagnostic interpretation of NGS results in a clinical setting. Its final sections are devoted to the emerging regulatory issues that will govern clinical use of NGS, and reimbursement paradigms that will affect the way in which laboratory professionals get paid for the testing. Simplifies complexities of NGS technologies for rapid education of clinical genomicists and genomic pathologists towards genomic medicine paradigm Tried and tested practice-based analysis for precision diagnosis and treatment plans Specific pipelines and meta-analysis for full range of clinically important variants

Loose-leaf Version of Genetics Essentials - Benjamin Pierce 2018-02-01

Derived from his popular and acclaimed Genetics: A Conceptual Approach, Ben Pierce's streamlined text covers basic transmission, molecular, and population genetics in just 18 chapters, helping students uncover major concepts of genetics and make connections among those concepts as a way of gaining a richer understanding of the essentials of genetics. With the new edition, Ben Pierce again focuses on the most pervasive problems for students taking genetics—understanding how genetics concepts connect to each other and developing solid problem solving skills. And with this edition, Genetics Essentials is available as a fully integrated text/media resource with SaplingPlus, an online solution that combines an e-book of the text, Pierce's powerful multimedia resources, and Sapling's robust genetics problem library.

[Handbook of Psychophysiology](#) - John T. Cacioppo 2016-12-15

The Handbook of Psychophysiology has been the authoritative resource for more than a quarter of a century. Since the third edition was published a decade ago, the field of psychophysiological science has seen significant advances, both in traditional measures such as electroencephalography, event-related brain potentials, and cardiovascular assessments, and in novel approaches and methods in behavioural epigenetics, neuroimaging, psychoneuroimmunology, psychoneuroendocrinology, neuropsychology, behavioural genetics, connectivity analyses, and non-contact sensors. At the same time, a thoroughgoing interdisciplinary focus has emerged as essential to scientific progress. Emphasizing the need for multiple measures, careful experimental design, and logical inference, the fourth edition of the Handbook provides updated and expanded coverage of approaches, methods, and analyses in the field. With state-of-the-art reviews of research in topical areas such as stress, emotion, development, language, psychopathology, and behavioural medicine, the Handbook remains the essential reference for students and scientists in the behavioural, cognitive, and biological sciences.

[Genetics](#) - Benjamin A. Pierce 2011-03-18

Genetics - Daniel L. Hartl 1998

[Genetics: A Conceptual Approach](#) - Benjamin A. Pierce 2012

Ben Pierce is recognized for his ability to make the complex subject of genetics as accessible as possible, giving students the big picture. By helping students easily identify the key concepts in genetics and by helping them make connections among concepts, Pierce allows students to learn the material with greater ease. W.H. Freeman is proud to introduce the Fourth Edition of Pierce's Genetics: A Conceptual Approach. Visit the preview site at www.whfreeman.com/pierce4epreview

Loose-leaf Version for Biochemistry: A Short Course - John L. Tymoczko 2018-12-28

Derived from the classic text originated by Lubert Stryer and continued by John Tymoczko and Jeremy Berg, Biochemistry: A Short Course focuses on the major topics taught in a one-semester biochemistry course. With its brief chapters and relevant examples, this thoroughly updated new edition helps students see the connections between the biochemistry they are studying and their own lives. The focus of the 4th edition has been around: Integrated Text and Media with the NEW SaplingPlus Paired for the first time with SaplingPlus, the most innovative digital solution for biochemistry students. Media-rich resources have been developed to support students' ability to visualize and understand individual and complex biochemistry concepts. Built-in assessments and interactive tools help students keep on track with reading

and become proficient problem solvers with the help and guidance of hints and targeted feedback--ensuring every problem counts as a true learning experience. Tools and Resources for Active Learning A number of new features are designed to help instructors create a more active environment in the classroom. Tools and resources are provided within the text, SaplingPlus and instructor resources. Extensive Problem-Solving Tools A variety of end of chapter problems promote understanding of single concept and multi-concept problems. Built-in assessments help students keep on track with reading and become proficient problem solvers with the help and guidance of hints and targeted feedback--ensuring every problem counts as a true learning experience. Unique case studies and new Think/Pair/Share Problems help provide application and relevance, as well as a vehicle for active learning.

Molecular Biotechnology - Glick Bernard R 1998

The second edition explains the principles of recombinant DNA technology as well as other important techniques such as DNA sequencing, the polymerase chain reaction, and the production of monoclonal antibodies.

Introduction to Genetics: A Molecular Approach - T A Brown 2012-03-22

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

Molecular Biology of B Cells - Tasuku Honjo 2014-10-09

Molecular Biology of B Cells, Second Edition is a comprehensive reference to how B cells are generated, selected, activated and engaged in antibody production. All of these developmental and stimulatory processes are described in molecular, immunological, and genetic terms to give a clear understanding of complex phenotypes. Molecular Biology of B Cells, Second Edition offers an integrated view of all aspects of B cells to produce a normal immune response as a constant, and the molecular basis of numerous diseases due to B cell abnormality. The new edition continues its success with updated research on microRNAs in B cell development and immunity, new developments in understanding lymphoma biology, and therapeutic targeting of B cells for clinical application. With updated research and continued comprehensive coverage of all aspects of B cell biology, Molecular Biology of B Cells, Second Edition is the definitive resource, vital for researchers across molecular biology, immunology and genetics. Covers signaling mechanisms regulating B cell differentiation Provides information on the development of therapeutics using monoclonal antibodies and clinical application of Ab Contains studies on B cell tumors from various stages of B lymphocytes Offers an integrated view of all aspects of B cells to produce a normal immune response

Molecular Cell Biology University Harvey Lodish 2008

The sixth edition provides an authoritative and comprehensive vision of molecular biology today. It presents developments in cell birth, lineage and death, expanded coverage of signaling systems and of metabolism and movement of lipids.

Cancer Biology Raymond W. Ruddon 2007-04-05

The fourth edition of this classic text provides a thorough, yet concise review of the cellular and molecular mechanisms involved in the transformation of normal into malignant cells, the invasiveness of cancer cells into host tissues, and the metastatic spread of cancer cells in the host organism. It defines the fundamental pathophysiologic changes that occur in tumor tissue and in the host animal or patient. Each chapter discusses the historical development of a field, citing the key experimental advances to the present day, and evaluates the current evidence that best supports or rules out concepts of the molecular and cellular mechanisms regulating cancer cell behavior. For all the areas of fundamental cancer research, an effort has been made to relate basic research findings to the clinical disease states. The book is well written and well illustrated, with schematic diagrams and actual research data to demonstrate points made in the text.

There is also an extensive, up-to-date bibliography, making the book valuable to scientists, and to physicians, students, and nurses interested in the field of cancer biology. The topics covered include pathologic characterization of human tumors, epidemiology of human cancer, regulation of cell proliferation and differentiation, cellular and molecular phenotypic characteristics of the cancer cell, mechanisms of carcinogenesis, tumor initiation and promotion, viral carcinogenesis, oncogenes and

oncogene products, growth factors, chromosomal alterations in cancer, mechanisms of tumor metastasis, host-tumor interactions, fundamental aspects of tumor immunology, and the advances in cancer cell biology that will lead to improved diagnosis and treatment of cancer in the future.

Principles of Animal Behavior, 4th Edition - Lee Alan Dugatkin 2020-01-01

Since the last edition of this definitive textbook was published in 2013, much has happened in the field of animal behavior. In this fourth edition, Lee Alan Dugatkin draws on cutting-edge new work not only to update and expand on the studies presented, but also to reinforce the previous editions' focus on ultimate and proximate causation, as well as the book's unique emphasis on natural selection, learning, and cultural transmission. The result is a state-of-the-art textbook on animal behavior that explains underlying concepts in a way that is both scientifically rigorous and accessible to students. Each chapter in the book provides a sound theoretical and conceptual basis upon which the empirical studies rest. A completely new feature in this edition are the Cognitive Connection boxes in Chapters 2-17, designed to dig deep into the importance of the cognitive underpinnings to many types of behaviors. Each box focuses on a specific issue related to cognition and the particular topic covered in that chapter. As Principles of Animal Behavior makes clear, the tapestry of animal behavior is created from weaving all of these components into a beautiful whole. With Dugatkin's exquisitely illustrated, comprehensive, and up-to-date fourth edition, we are able to admire that beauty anew.

Molecular Biology - David P. Clark 2012-03-20

Molecular Biology, Second Edition, examines the basic concepts of molecular biology while incorporating primary literature from today's leading researchers. This updated edition includes Focuses on Relevant Research sections that integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. The new Academic Cell Study Guide features all the articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. Animations provided deal with topics such as protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE. The text also includes updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA. An updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. This text is designed for undergraduate students taking a course in Molecular Biology and upper-level students studying Cell Biology, Microbiology, Genetics, Biology, Pharmacology, Biotechnology, Biochemistry, and Agriculture. NEW: "Focus On Relevant Research" sections integrate primary literature from Cell Press and focus on helping the student learn how to read and understand research to prepare them for the scientific world. NEW: Academic Cell Study Guide features all articles from the text with concurrent case studies to help students build foundations in the content while allowing them to make the appropriate connections to the text. NEW: Animations provided include topics in protein purification, transcription, splicing reactions, cell division and DNA replication and SDS-PAGE Updated chapters on Genomics and Systems Biology, Proteomics, Bacterial Genetics and Molecular Evolution and RNA Updated ancillary package includes flashcards, online self quizzing, references with links to outside content and PowerPoint slides with images. Fully revised art program

Genetics Essentials - Benjamin Pierce 2018-02-23

Derived from his popular and acclaimed Genetics: A Conceptual Approach, Ben Pierce's streamlined text covers basic transmission, molecular, and population genetics in just 18 chapters, helping students uncover major concepts of genetics and make connections among those concepts as a way of gaining a richer understanding of the essentials of genetics. With the new edition, Ben Pierce again focuses on the most pervasive problems for students taking genetics—understanding how genetics concepts connect to each other and developing solid problem solving skills. And with this edition, Genetics Essentials is available as a fully integrated text/media resource with SaplingPlus, an online solution that combines an e-book of the text, Pierce's powerful multimedia resources, and Sapling's robust genetics problem library.

Molecular Biology of the Cell - Bruce Alberts 2004

Learning and Memory - Mark A. Gluck 2016-03-14

With its modular organization, consistent chapter structure, and contemporary perspective, this groundbreaking survey is ideal for courses on learning and memory, and is easily adaptable to courses that focus on either learning or memory. Instructors can assign the chapters they want from four distinctive modules (introduction, learning, memory, and integrative topics), with each chapter addressing behavioral processes, then the underlying neuroscience, then relevant clinical perspectives. The book is further distinguished by its full-color presentation and coverage that includes comparisons between studies of human and nonhuman brains. The new edition offers enhanced pedagogy and more coverage of animal learning.

Essential Psychopathology & Its Treatment (Fourth Edition) - Mark D. Kilgus 2015-10-12

A comprehensive revision to the textbook on modern psychiatric diagnosis and treatment, keyed to the DSM-5 and ICD-10. Long considered a leading text on the assessment, diagnosis, and treatment of psychiatric disorders, this latest revision includes cutting-edge updates in neuroscience, psychopharmacology, and genetics. Geared to resident students in psychiatry and related disciplines, it makes practical, readable sense of the field.

Engineering Design - Clive L. Dym 2004

Written for introductory courses in engineering design, this text illustrates conceptual design methods and project management tools through descriptions, examples, and case studies.

Genetics Solutions Manual - Jung H. Choi 2007-12-25

This manual contains complete answers and worked-out solutions to all questions and problems that appear in the textbook.

Understanding Emotions - Dacher Keltner 2018-12-28

Emotions are an inescapable part of the human experience. They motivate actions and reactions, guide our interpersonal and business relationships, inspire political and societal trends, and influence our sense of self and well-being. Emphasizing the broad practical reach of this field of study, *Understanding Emotions* draws from neuroscience, psychiatry, biology, genetics, the humanities, economics, and more to provide a strong foundation in core concepts. An easy-to-follow narrative arc encompasses the entire life span, while representative studies provide immediate insight into the real-world implications of important findings. This new Fourth Edition continues to provide clear and concise guidance toward the factors that drive emotion, with new, revised, and expanded discussions that reflect the current state of the field. Detailed coverage of social and anti-social motivations, moral judgment, empathy, psychological disorders, the physiological components of emotion, and many more equip students with the conceptual tools to probe deeper into the material and apply methods and techniques to their own personal lives.

A Primer of Population Genetics - Daniel L. Hartl 2000-01

In response to many requests, the Third Edition of *A Primer of Population Genetics* has been dramatically shortened and streamlined for greater accessibility. Designed primarily for undergraduates, it will also serve for graduate students and professionals in biology and other sciences who desire a concise but comprehensive overview of the field with a primary focus on the integration of experimental results with theory. The abundance of experimental data generated by the use of molecular methods to study genetic polymorphisms sparked a transformation in the field of population genetics. Present in virtually all organisms, molecular polymorphisms allow populations to be studied without regard to species or habitat, and without the need for controlled crosses, mutant genes, or for any prior genetic studies. Thus a familiarity with population genetics has become essential for any biologist whose work is at the population level. These fields include evolution, ecology, systematics, plant breeding, animal breeding, conservation and wildlife management, human genetics, and anthropology. Population genetics seeks to understand the causes of genetic differences within and among species, and molecular biology provides a rich repertoire of

techniques for identifying these differences.

Transmission and Population Genetics - Benjamin A. Pierce 2011-02-25

This version of Ben Pierce's *Genetics: A Conceptual Approach*, Fourth Edition contains selected chapters (chapters 1-9, 18, and 24-26) from the larger book to focus specifically on the fundamental concepts of transmission and population genetics. Ben Pierce is known for his ability to make the complex subject of genetics accessible to students, teaching them to see the big picture amid the details of the subject. By aiding students in identifying key concepts in genetics and showing them how concepts connect to one another, Pierce helps students learn genetics with greater ease.

Life - William K. Purves 2001

Authoritative, thorough, and engaging, *Life: The Science of Biology* achieves an optimal balance of scholarship and teachability, never losing sight of either the science or the student. The first introductory text to present biological concepts through the research that revealed them, *Life* covers the full range of topics with an integrated experimental focus that flows naturally from the narrative. This approach helps to bring the drama of classic and cutting-edge research to the classroom - but always in the context of reinforcing core ideas and the innovative scientific thinking behind them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

Jasper's Basic Mechanisms of the Epilepsies - Jeffrey Noebels 2012-06-01

H.H. Jasper, A.A. Ward, A. Pope and H.H. Merritt, chair of the Public Health Service Advisory Committee on the Epilepsies, National Institutes of Health, published the first volume on *Basic Mechanisms of the Epilepsies (BME)* in 1969. Their ultimate goal was to search for a "better understanding of the epilepsies and seek more rational methods of their prevention and treatment." Since then, basic and clinical researchers in epilepsy have gathered together every decade and a half with these goals in mind -- assessing where epilepsy research has been, what it has accomplished, and where it should go. In 1999, the third volume of BME was named in honor of H.H. Jasper. In line with the enormous expansion in the understanding of basic epilepsy mechanisms over the past four decades, this fourth edition of Jasper's BME is the most ambitious yet. In 90 chapters, the book considers the role of interactions between neurons, synapses, and glia in the initiation, spread and arrest of seizures. It examines mechanisms of excitability, synchronization, seizure susceptibility, and ultimately epileptogenesis. It provides a framework for expanding the epilepsy genome and understanding the complex heredity responsible for common epilepsies as it explores disease mechanisms of ion channelopathies and developmental epilepsy genes. It considers the mechanisms of conditions of epilepsy comorbidities. And, for the first time, this 4th edition describes the current efforts to translate the discoveries in epilepsy disease mechanisms into new therapeutic strategies. This book, considered the 'bible' of basic epilepsy research, is essential for the student, the clinician scientist and all research scientists who conduct laboratory-based experimental epilepsy research using cellular, brain slice and animal models, as well as for those interested in related disciplines of neuronal oscillations, network plasticity, and signaling in brain structures that include the cortex, hippocampus, and thalamus. In keeping with the 1969 goals, the book is now of practical importance to the clinical neurologist and epileptologist as the progress of research in molecular genetics and modern efforts to design antiepileptic drugs, cures and repairs in the epilepsies converge and impact clinical care.

Principles of Animal Behavior - Alan Dugatkin 2013-03-28

Principles of Animal Behavior has long been considered the most current and engaging introduction to animal behavior. The Third Edition is now also the most comprehensive and balanced in its approach to the theoretical framework behind how biologists study behavior.

Ornithology - Frank B. Gill 1995

Approaches the subject from a biological and evolutionary perspective rather than just identification.