

Genetics Pierce 4th Edition

Concepts of Genetics is a one semester introductory genetics text that explains genetics concepts in a concise, engaging and up-to-date manner. Rob Brooker, author of market leading texts in Genetics and Intro Biology for majors, brings his clear and accessible writing style to this briefer genetics text. He employs the use of experimentation and stresses the fundamentals of the Scientific Method in presenting genetics concepts, then further engages the reader through the use of formative assessment to assist the student in understanding the core genetic principles. The introduction of Learning Outcomes throughout the chapter in the 2nd edition helps the student focus on the key concepts presented in the chapter. Concepts of Genetics, 2e also stresses developing problem-solving skills with the new feature "Genetic TIPS" that breaks a problem down into conceptual parts (Topic, Information, Problem-Solving Strategy) to help students work through the answer. The 2nd edition will be more focused on core concepts with the narrowing of book content by eliminating specialty chapters that many courses do not have time to cover in detail (the full chapters on Developmental Genetics and Evolutionary Genetics--these general topics are discussed elsewhere, but not in the amount of detail in the first edition). The author has added new information regarding epigenetics and material on personalized medicine. The integration of the genetics text and the power of digital world are now complete with McGraw-Hill's ConnectPlus including LearnSmart. Users who purchase Connect Plus receive access to SmartBook and to the full online ebook version of the textbook.

No matter how cushy their lives, dogs live on our terms. They compromise their freedom and instinctual pleasure, as well as their innate strategies for coping with stress and anxiety, in exchange for the love, comfort, and care they get from us. But it is possible to let dogs be dogs without wreaking havoc on our lives, as biologist Marc Bekoff and bioethicist Jessica Pierce show in this fascinating book. They begin by illuminating the true nature of dogs and helping us "walk in their paws."; They reveal what smell, taste, touch, sight, and hearing mean to dogs and then guide readers through everyday ways of enhancing dogs's freedom in safe, mutually happy ways. The rewards, they show, are great for dog and human alike.

In the spring of 1974, Calliope Stephanides, a student at a girl's school in Grosse Pointe, Michigan, finds herself drawn to a chain-smoking, strawberry-blond classmate with a gift for acting. The passion that furtively develops between them, as well as Callie's failure to develop, leads Callie to suspect that she is not like other girls. In fact, she is not a girl at all; due to a rare genetic mutation Callie is part girl, part boy.

For all introductory genetics courses A forward-looking exploration of essential genetics topics Known for its focus on conceptual understanding, problem solving, and practical applications, this bestseller strengthens problem-solving skills and explores the essential genetics topics that today's students need to understand. The 9th Edition maintains the text's brief, less-detailed coverage of core concepts and has been extensively updated with relevant, cutting-edge coverage of emerging topics in genetics. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you will receive via email the code and instructions on how to access this product. Time limit The eBooks products do not have an expiry date. You will continue to access your digital ebook products whilst you have your Bookshelf installed.

"Subject Areas/Keywords: adolescents, behavioral health, childhood, children, chronic, conditions, developmental disabilities, diseases, eHealth applications, families, family, health behaviors, health promotion, health psychology, illnesses, integrated healthcare, interventions, medical disorders, pain, pediatric psychology, prevention, primary care, problems, psychological disorders, psychotherapy, schools, Society of Pediatric Psychology, telehealth, treatments DESCRIPTION Thousands of practitioners and students have relied on this handbook, now thoroughly revised, for authoritative information on the links between psychological and medical issues from infancy through adolescence. Sponsored by the Society of Pediatric Psychology, the volume explores psychosocial aspects of specific medical problems, as well as issues in managing developmental and behavioral concerns that are frequently seen in pediatric settings. The book describes best practices in training and service delivery and presents evidence-based approaches to intervention with children and families. All chapters have been rigorously peer reviewed by experts in the field"--

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.

This timeless pocket atlas is the ideal visual companion to histology and cytology textbooks. First published in 1950 and translated into eight languages, Kuehnel's Pocket Atlas of Cytology, Histology and Microscopic Anatomy is a proven classic. The fully revised and updated fourth edition contains 745 full-color illustrations - almost 200 more than were included in the third edition. Superb, high-quality microphotographs and pathologic stains are accompanied by legends, informative texts, and numerous cross-references. Key features of the updated fourth edition: More than 700 high-quality illustrations using advanced techniques in histology and electron microscopy Practical, information Concise and focused text Key concepts and ideas illustrated in less than 550 pages Ideal for exam preparation, this world-class book is an indispensable visual study tool for medical, dental and biology students. It can also serve as an outstanding review and refresher text.

This widely adopted text introduces students and practitioners to major contemporary models of addiction. Assuming no prior knowledge in the field, the book shows how theory and research can offer a roadmap for effective intervention. It presents multiple perspectives on the causes and mechanisms of substance use problems, reviews their strengths and limitations, and examines their implications for helping people change their behavior. Evidence-based treatment and prevention strategies are described. Pedagogical features include: accessible style and clear organization concise end-of-chapter summaries review questions in every chapter. New to this edition: the latest research on prevention and treatment, including current data and revised discussions of genetic influences, family treatment models, and many other topics updated for DSM-5 a chapter on behavioral addictions a chapter on promoting motivation and autonomy a chapter on evidence-based practice.

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.

Our understanding of bacterial genetics has progressed as the genomics field has advanced. Genetics and genomics complement and influence each other; they are inseparable. Under the novel insights from genetics and genomics, once-believed borders in biology start to fade: biological knowledge of the bacterial world is being viewed under a new light and concepts are being redefined. Species are difficult to delimit and relationships within and between groups of bacteria – the whole concept of a tree of life – is hotly debated when dealing with bacteria. The DNA within bacterial cells contains a variety of features and signals that influence the diversity of the microbial world. This text assumes readers have some knowledge of genetics and microbiology but acknowledges that it can be varied. Therefore, the book includes all of the information that readers need to know in order to understand the more advanced material in the book.

The single most comprehensive resource for environmental microbiology Environmental microbiology, the study of the roles that microbes play in all planetary environments, is one of the most important areas of scientific research. The Manual of Environmental Microbiology, Fourth Edition, provides comprehensive coverage of this critical and growing field. Thoroughly updated and revised, the Manual is the definitive reference for information on microbes in air, water, and soil and their impact on human health and welfare. Written in accessible, clear prose, the manual covers four broad areas: general methodologies, environmental public health microbiology, microbial ecology, and biodegradation and biotransformation. This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community. Specifically, this new edition of the Manual Contains completely new sections covering microbial risk assessment, quality control, and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists, microbial ecologists, and environmental engineers, as well as those interested in human diseases, water and wastewater treatment, and biotechnology.

Recognized as the definitive reference, this handbook brings together leading experts from multiple psychological subdisciplines to examine one of today's most dynamic areas of research. Coverage encompasses the biological and neuroscientific underpinnings of emotions, as well as developmental, social and personality, cognitive, and clinical perspectives. The volume probes how people understand, experience, express, and perceive affective phenomena and explores connections to behavior and health across the lifespan. Concluding chapters present cutting-edge work on a range of specific emotions. Illustrations include 10 color plates. New to This Edition *Chapters on the mechanisms, processes, and influences that contribute to emotions (such as genetics, the brain, neuroendocrine processes, language, the senses of taste and smell). *Chapters on emotion in adolescence and older age, and in neurodegenerative dementias. *Chapters on facial expressions and emotional body language. *Chapters on stress, health, gratitude, love, and empathy. *Many new authors and topics; extensively revised with the latest theoretical and methodological innovations. A Choice Outstanding Academic Title

A timely update of a highly popular handbook on statistical genomics This new, two-volume edition of a classic text provides a thorough introduction to statistical genomics, a vital resource for advanced graduate students, early-career researchers and new entrants to the field. It introduces new and updated information on developments that have occurred since the 3rd edition. Widely regarded as the reference work in the field, it features new chapters focusing on statistical aspects of data generated by new sequencing technologies, including sequence-based functional assays. It expands on previous coverage of the many processes between genotype and phenotype, including gene expression and epigenetics, as well as metabolomics. It also examines population genetics and evolutionary models and inference, with new chapters on the multi-species coalescent, admixture and ancient DNA, as well as genetic association studies including causal analyses and variant interpretation. The Handbook of Statistical Genomics focuses on explaining the main ideas, analysis methods and algorithms, citing key recent and historic literature for further details and references. It also includes a glossary of terms, acronyms and abbreviations, and features extensive cross-referencing between chapters, tying the different areas together. With heavy use of up-to-date examples and references to web-based resources, this continues to be a must-have reference in a vital area of research. Provides much-needed, timely coverage of new developments in this expanding area of study Numerous, brand new chapters, for example covering bacterial genomics, microbiome and metagenomics Detailed coverage of application areas, with chapters on plant breeding, conservation and forensic genetics Extensive coverage of human genetic epidemiology, including ethical aspects Edited by one of the leading experts in the field along with rising stars as his co-editors Chapter authors are world-renowned experts in the field, and newly emerging leaders. The Handbook of Statistical Genomics is an excellent introductory text for advanced graduate students and early-career researchers involved in statistical genetics.

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.

Genetics: A Conceptual Approach W. H. Freeman

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.

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 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.

"Rapid increases in tests and technologies, media attention, and the expansion of genetic medicine and testing beyond

conditions that are exclusively genetic in nature to common chronic illnesses with both genetic and environmental components (e.g., diabetes, heart disease, cancer), have raised demand for genetic counselling services and changing the scope of practice. Genetic counselors help individuals and families understand complex medical information, including diagnosis, prognosis, management options, risk, and heredity issues. They aid patients in decision-making while respecting ethical, familial, and cultural standards"--

Incorporating the most important advances in the fast-growing field of cancer biology, the text maintains all of its hallmark features. It is admired by students, instructors, researchers, and clinicians around the world for its clear writing, extensive full-color art program, and numerous pedagogical features.

Bioconjugate Techniques, 3rd Edition, is the essential guide to the modification and cross linking of biomolecules for use in research, diagnostics, and therapeutics. It provides highly detailed information on the chemistry, reagent systems, and practical applications for creating labeled or conjugate molecules. It also describes dozens of reactions, with details on hundreds of commercially available reagents and the use of these reagents for modifying or crosslinking peptides and proteins, sugars and polysaccharides, nucleic acids and oligonucleotides, lipids, and synthetic polymers. Offers a one-stop source for proven methods and protocols for synthesizing bioconjugates in the lab Provides step-by-step presentation makes the book an ideal source for researchers who are less familiar with the synthesis of bioconjugates Features full color illustrations Includes a more extensive introduction into the vast field of bioconjugation and one of the most thorough overviews of immobilization chemistry ever presented

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.

Textbook and Color Atlas of Traumatic Injuries to the Teeth, Fifth Edition encompasses the full scope of acute dental trauma, including all aspects of interdisciplinary treatment. This new edition embraces the significant advances made in the subject of dental traumatology since the publication of the previous edition in 2007. Thoroughly updated throughout, it includes eight new chapters, including one chapter focused on the development of bioengineered teeth and another on clinical regenerative endodontics. Providing the theoretical background behind the clinical applications, the text is supplemented by a step-by-step online guide to procedures at www.dentaltraumaguide.org. The book is also filled with full-color illustrations throughout—making it the ultimate guide for anyone treating individuals afflicted with dental injuries caused by traffic accidents, sporting injuries, violent assaults, and other falls, crashes, or injuries. New edition of the definitive reference on dental traumatology Thoroughly revised and updated with a modern look and feel Eight new chapters on innovative developments in the field Contributions from world-renowned authors and editors Linked to www.dentaltraumaguide.org with a specific chapter on how the book complements the online guide This comprehensive textbook is an invaluable reference for undergraduate BDS courses worldwide, as well as a core text for postgraduate pediatric, oral surgery, and endodontics courses.

Cutting-edge, user-friendly, and comprehensive: the revolutionary guide to the brain, now fully revised and updated At birth each of us is given the most powerful and complex tool of all time: the human brain. And yet, as we well know, it doesn't come with an owner's manual—until now. In this unsurpassed resource, Dr. Pierce J. Howard and his team distill the very latest research and clearly explain the practical, real-world applications to our daily lives. Drawing from the frontiers of psychology, neurobiology, and cognitive science, yet organized and written for maximum usability, *The Owner's Manual for the Brain, Fourth Edition*, is your comprehensive guide to optimum mental performance and well-being. It should be on every thinking person's bookshelf. What are the ingredients of happiness? Which are the best remedies for headaches and migraines? How can we master creativity, focus, decision making, and willpower? What are the best brain foods? How is it possible to boost memory and intelligence? What is the secret to getting a good night's sleep? How can you positively manage depression, anxiety, addiction, and other disorders? What is the impact of nutrition, stress, and exercise on the brain? Is personality hard-wired or fluid? What are the best strategies when recovering from trauma and loss? How do moods and emotions interact? What is the ideal learning environment for children? How do love, humor, music, friendship, and nature contribute to well-being? Are there ways of reducing negative traits such as aggression, short-temperedness, or irritability? What is the recommended treatment for concussions? Can you delay or prevent Alzheimer's and dementia? What are the most important ingredients to a successful marriage and family? What do the world's most effective managers know about leadership, motivation, and persuasion? Plus 1,000s more topics!

An anthropologist visits the frontiers of genetics, medicine, and technology to ask: Whose values are guiding gene editing experiments? And what does this new era of scientific inquiry mean for the future of the human species? "That rare kind of scholarship that is also a page-turner." —Britt Wray, author of *Rise of the Necrofauna* At a conference in Hong Kong in November 2018, Dr. He Jiankui announced that he had created the first genetically modified babies—twin girls named Lulu and Nana—sending shockwaves around the world. A year later, a Chinese court sentenced Dr. He to three years in prison for "illegal medical practice." As scientists elsewhere start to catch up with China's vast genetic research program, gene editing is fueling an innovation economy that threatens to widen racial and economic inequality. Fundamental questions about science, health, and social justice are at stake: Who gets access to gene editing technologies? As countries loosen regulations around the globe, from the U.S. to Indonesia, can we shape research agendas to promote an ethical and fair society? Eben Kirksey takes us on a groundbreaking journey to meet the key scientists, lobbyists, and entrepreneurs who are bringing cutting-edge genetic engineering tools like CRISPR—created by Nobel Prize-winning biochemists Jennifer Doudna and Emmanuelle Charpentier—to your local clinic. He also ventures beyond the scientific echo chamber, talking to disabled scholars, doctors, hackers, chronically-ill patients, and activists who have alternative visions of a genetically modified future for humanity. *The Mutant Project* empowers us to ask the right questions, uncover the truth, and navigate this brave new world.

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.

This much anticipated Third Edition provides a comprehensive presentation of the global burden and patterns of cancer occurrence, along with new developments in our understanding of cancer causation and prevention. Special attention is given to epidemiologic approaches that incorporate molecular biomarkers based on genomic and other emerging technologies, providing new insights into the role of genetic predisposition and gene-environment interactions in cancer induction. In addition, new chapters are included on social class disparities in cancer incidence and mortality, the role of obesity and physical inactivity in cancer etiology, the potential effects of electromagnetic fields and radiofrequency radiation, and the principles of cancer chemoprevention. The textbook is organized into five sections: Basic Concepts; The Magnitude of Cancer; The Causes of Cancer; Cancer by Tissue of Origin; Cancer Prevention and Control. In this new edition, Drs. David Schottenfeld and Joseph F. Fraumeni, Jr. have enlisted three distinguished Associate Editors: Drs. Jonathan Samet of Johns Hopkins University, Graham Colditz of Harvard University and Alice Whittemore of Stanford University.

Anatomy & Physiology for Midwives 3rd edition builds on the success of the first two editions with electronic ancillaries, more accessible, woman-centred language and strengthened links with good practice. The book provides a thorough review of anatomy and physiology applicable to midwifery, from first principles through to current research, utilizing case studies for reflection. A comprehensive and well-illustrated textbook that is an essential purchase for all students of midwifery.

The author presents a basic introduction to the world of genetic engineering. Copyright © Libri GmbH. All rights reserved. Behavior Analysis and Learning, Fifth Edition is an essential textbook covering the basic principles in the field of behavior analysis and learned behaviors, as pioneered by B. F. Skinner. The textbook provides an advanced introduction to operant conditioning from a very consistent Skinnerian perspective. It covers a range of principles from basic respondent and operant conditioning through applied behavior analysis into cultural design. Elaborating on Darwinian components and biological connections with behavior, the book treats the topic from a consistent worldview of selectionism. The functional relations between the organism and the environment are described, and their application in accounting for old behavior and generating new behavior is illustrated. Expanding on concepts of past editions, the fifth edition provides updated coverage of recent literature and the latest findings. There is increased inclusion of biological and neuroscience material, as well as more data correlating behavior with neurological and genetic factors. The chapter on verbal behavior is expanded to include new research on stimulus equivalence and naming; there is also a more detailed and updated analysis of learning by imitation and its possible links to mirror neurons. In the chapter on applied behavior analysis (ABA), new emphasis is given to contingency management of addiction, applications to education, ABA and autism, and prevention and treatment of health-related problems. The material presented in this book provides the reader with the best available foundation in behavior science and is a valuable resource for advanced undergraduate and graduate students in psychology or other behavior-based disciplines. In addition, a website of supplemental resources for instructors and students makes this new edition even more accessible and student-friendly (www.psyppress.com/u/pierce).

A thoughtful new look at the entwined histories of genetic medicine and eugenics, with probing discussion of the moral risks of seeking human perfection

First published in 1988 by RS Means, the new edition of Project Scheduling and Management for Construction has been substantially revised for students enrolled in construction management and civil engineering programs. While retaining its emphasis on developing practical, professional-level scheduling skills, the new edition is a relatable, real-world case study that can be used over the course of a semester. The book also includes classroom elements like exercises, quizzes, skill-building exercises, as well as an instructor's manual including two additional new cases.

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