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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.

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Molecular-Genetic and Statistical Techniques for Behavioral and Neural Research presents the most exciting molecular and recombinant DNA techniques used in the analysis of brain function and behavior, a critical piece of the puzzle for clinicians, scientists, course instructors and advanced undergraduate and graduate students. Chapters examine neuroinformatics, genetic and neurobehavioral databases and data mining, also providing an analysis of natural genetic variation and principles and applications of forward (mutagenesis) and reverse genetics (gene targeting). In addition, the book discusses gene expression and its role in brain function and behavior, along with ethical issues in the use of animals in genetics testing. Written and edited by leading international experts, this book provides a clear presentation of the frontiers of basic research as well as translationally relevant techniques that are used by neurobehavioral geneticists. Focuses on new techniques, including electrocorticography, functional mapping, stereo EEG, motor evoked potentials, optical coherence tomography, magnetoencephalography, laser evoked potentials, transmagnetic stimulation, and motor evoked potentials Presents the most exciting molecular and recombinant DNA techniques used in the analysis of brain function and behavior Written and edited by leading international experts

Emery and Rimoin's Principles and Practice of Medical Genetics and Genomics: Perinatal and Reproductive Genetics, Seventh Edition includes the latest information on seminal topics such as prenatal diagnosis, genome and exome sequencing, public health genetics, genetic counseling, and management and treatment strategies in this growing field. The book is ideal for medical students, residents, physicians and researchers involved in the care of patients with genetic conditions. This comprehensive, yet practical resource emphasizes theory and research fundamentals related to applications of medical genetics across the full spectrum of inherited disorders and applications to medicine more broadly. Chapters from leading international researchers and clinicians focus on topics ranging from single gene testing to whole genome sequencing, whole exome sequencing, gene therapy, genome editing approaches, FDA regulations on genomic testing and therapeutics, and ethical aspects of employing genomic technologies. Fully revised and up-to-date, this new edition introduces genetic researchers, students and healthcare professionals to genomic technologies, testing and therapeutic applications Examines key topics and developing methods within genomic testing and therapeutics, including single gene testing, whole genome and whole exome sequencing, gene therapy and genome editing, variant Interpretation and classification, and ethical aspects of applying genomic technologies Includes color images that support the identification, concept illustration, and method of processing Features contributions by leading international researchers and practitioners of medical genetics Provides a robust companion website that offers further teaching tools and links to outside resources and articles to stay up-to-date on the latest developments in the field

Principles of Behavioral Genetics provides an introduction to the fascinating science that aims to understand how our genes determine what makes us tick. It presents a comprehensive overview of the relationship between genes, brain, and behavior. Introductory chapters give clear explanations of basic processes of the nervous system and fundamental principles of genetics of complex traits without excessive statistical jargon. Individual chapters describe the genetics of social interactions, olfaction and taste, memory and learning, circadian behavior, locomotion, sleep, and addiction, as well as the evolution of behavior. Whereas the focus is on genetics, neurobiological and ecological aspects are also included to provide intellectual breadth. The book uses examples that span the gamut from classical model organisms to non-model systems and human biology, and include both laboratory and field studies. Samples of historical information accentuate the text to provide the reader with an appreciation of the history of the field. This book will be a valuable resource for future generations of scientists who focus on the field of behavioral genetics. Defines the emerging science of behavioral genetics Engagingly written by two leading experts in behavioral genetics Clear explanations of basic quantitative genetic, neurogenetic and genomic applications to the study of behavior Numerous examples ranging from model organisms to non-model systems and humans Concise overviews and summaries for each chapter

The Eighth Edition of Genetics: Analysis of Genes and Genomes provides a clear, balanced, and comprehensive introduction to genetics and genomics at the college level. Expanding upon the key elements that have made this text a success, Hartl has included updates throughout, as well as a new chapter dedicated to genetic evolution. He continues to treat transmission genetics, molecular genetics, and evolutionary genetics as fully integrated subjects and provide students with an unprecedented understanding of the basic process of gene transmission, mutation, expression, and regulation. New chapter openers include a new section highlighting scientific competencies, while end-of-chapter Guide to Problem-Solving sections demonstrate the concepts needed to efficiently solve

problems and understand the reasoning behind the correct answer. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition.

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Authored by a very eminent geneticist, this text gives students a thorough appreciation of the development and potential of analytical genetic techniques. Beginning with a consideration of both the classical Mendelian and the molecular biological aspects of genetic analysis, the book goes on to discuss progress in three key areas of genetics. Firstly the elucidation of the detailed structure and overall organization of the genome, secondly the way that genetic differences at the molecular level account for heritable variation in populations, and finally an explanation of how the genes control the metabolism and development of the whole organism. Professor Fincham takes as his theme the links between classical and molecular genetics, and throughout the book shows how the combination of these two approaches can be a powerful tool for the advancement of genetic research. A clear and simple text from one of the world's leading geneticists Abundant and innovative illustrations Links classical Mendelian genetics with the new molecular genetic techniques

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Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating diseases. The predicament is that our new-found genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and dominion that fails to appreciate the gifted character of human powers and achievements. Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way philosophers discuss ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world. Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this book, by one of America's preeminent moral and political thinkers.

"Genetics: Analysis and Principles" is a one-semester, introductory genetics textbook that takes an experimental approach to understanding genetics. By weaving one or two experiments into the narrative of each chapter, students can simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments.

Disorders of behavior represent some of the most common and disabling diseases affecting humankind; however, despite their worldwide distribution, genetic influences on these illnesses are often overlooked by families and mental health professionals. Psychiatric genetics is a rapidly advancing field, elucidating the varied roles of specific genes and their interactions in brain development and dysregulation. Principles of Psychiatric Genetics includes 22 disorder-based chapters covering, amongst other conditions, schizophrenia, mood disorders, anxiety disorders, Alzheimer's disease, learning and developmental disorders, eating disorders and personality disorders. Supporting chapters focus on issues of genetic epidemiology, molecular and statistical methods, pharmacogenetics, epigenetics, gene expression studies, online genetic databases and ethical issues. Written by an international team of contributors, and fully updated with the latest results from genome-wide association studies, this comprehensive text is an indispensable reference for psychiatrists, neurologists, psychologists and anyone involved in psychiatric genetic studies.

Clinical Applications for Next Generation Sequencing provides readers with an outstanding postgraduate resource to learn about the translational use of NGS in clinical environments. Rooted in both medical genetics and clinical medicine, the book fills the gap between state-of-the-art technology and evidence-based practice, providing an educational opportunity for users to advance patient care by transferring NGS to the needs of real-world patients. The book builds an interface between genetic laboratory staff and clinical health workers to not only improve communication, but also strengthen cooperation. Users will find valuable tactics they can use to build a systematic framework for understanding the role of NGS testing in both common and rare diseases and conditions, from prenatal care, like chromosomal abnormalities, up to advanced age problems like dementia. Fills the gap between state-of-the-art technology and evidence-based practice Provides an educational opportunity which advances patient care through the transfer of NGS to real-world patient assessment Promotes a practical tool that clinicians can apply directly to patient care Includes a systematic framework for understanding the role of NGS testing in many common and rare diseases Presents evidence regarding the important role of NGS in current diagnostic strategies

The far right is back with a vengeance. After several decades at the political margins, far-right politics has again taken center stage. Three of the world's largest democracies - Brazil, India, and the United States - now have a radical right leader, while far-right parties continue to increase their profile and support within Europe. In this timely book, leading global expert on political extremism Cas Mudde provides a concise overview of the fourth wave of postwar far-right politics, exploring its

history, ideology, organization, causes, and consequences, as well as the responses available to civil society, party, and state actors to challenge its ideas and influence. What defines this current far-right renaissance, Mudde argues, is its mainstreaming and normalization within the contemporary political landscape. Challenging orthodox thinking on the relationship between conventional and far-right politics, Mudde offers a complex and insightful picture of one of the key political challenges of our time.

An ethologist shows man to be a gene machine whose world is one of savage competition and deceit
 Genetics: Analysis and Principles is a one-semester, introductory genetics textbook that takes an experimental approach to understanding genetics. By weaving one or two experiments into the narrative of each chapter, students can simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments. Rob Brooker, author of market leading texts in Genetics and Intro Biology for majors, brings his clear and accessible writing style to this new edition. The integration of the genetics text and the power of digital world are now complete w.

Basic Science Methods for Clinical Researchers addresses the specific challenges faced by clinicians without a conventional science background. The aim of the book is to introduce the reader to core experimental methods commonly used to answer questions in basic science research and to outline their relative strengths and limitations in generating conclusive data. This book will be a vital companion for clinicians undertaking laboratory-based science. It will support clinicians in the pursuit of their academic interests and in making an original contribution to their chosen field. In doing so, it will facilitate the development of tomorrow's clinician scientists and future leaders in discovery science. Serves as a helpful guide for clinical researchers who lack a conventional science background Organized around research themes pertaining to key biological molecules, from genes, to proteins, cells, and model organisms Features protocols, techniques for troubleshooting common problems, and an explanation of the advantages and limitations of a technique in generating conclusive data Appendices provide resources for practical research methodology, including legal frameworks for using stem cells and animals in the laboratory, ethical considerations, and good laboratory practice (GLP)

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.

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Your no-nonsense guide to genetics With rapid advances in genomic technologies, genetic testing has become a key part of both clinical practice and research. Scientists are constantly discovering more about how genetics plays a role in health and disease, and healthcare providers are using this information to more accurately identify their patients' particular medical needs. Genetic information is also increasingly being used for a wide range of non-clinical purposes, such as exploring one's ancestry. This new edition of Genetics For Dummies serves as a perfect course supplement for students pursuing degrees in the sciences. It also provides science-lovers of all skill levels with easy-to-follow and easy-to-understand information about this exciting and constantly evolving field. This edi-

tion includes recent developments and applications in the field of genetics, such as: Whole-genome and whole-exome sequencing Precision medicine and pharmacogenetics Direct-to-consumer genetic testing for health risks Ancestry testing Featuring information on some of the hottest topics in genetics right now, this book makes it easier than ever to wrap your head around this fascinating subject.

Genetics: Analysis and Principles is a one-semester, introductory genetics textbook that takes an experimental approach to understanding genetics. By weaving one or two experiments into the narrative of each chapter, students can simultaneously explore the scientific method and understand the genetic principles that have been learned from these experiments. The pedagogy of Genetics: Analysis & Principles has been designed to foster student learning. Instead of being a collection of facts and figures, this text is intended to be an engaging and motivating textbook in which formative assessment allows students to move ahead and learn the material in a productive way.

Phylogenomics: A Primer is for advanced undergraduate and graduate biology students studying molecular biology, comparative biology, evolution, genomics, and biodiversity. It explores the origins of organic life on the planet, examines the use of scientific databases to understand the function of proteins within organisms, and provides insight into

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"In this book, Andy Baxevanis and Francis Ouellette . . . have undertaken the difficult task of organizing the knowledge in this field in a logical progression and presenting it in a digestible form. And they have done an excellent job. This fine text will make a major impact on biological research and, in turn, on progress in biomedicine. We are all in their debt." —Eric Lander from the Foreword Reviews from the First Edition "...provides a broad overview of the basic tools for sequence analysis ... For biologists approaching this subject for the first time, it will be a very useful handbook to keep on the shelf after the first reading, close to the computer." —Nature Structural Biology "...should be in the personal library of any biologist who uses the Internet for the analysis of DNA and protein sequence data." —Science "...a wonderful primer designed to navigate the novice through the intricacies of in

scripto analysis ... The accomplished gene researcher will also find this book a useful addition to their library ... an excellent reference to the principles of bioinformatics." —Trends in Biochemical Sciences This new edition of the highly successful Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins provides a sound foundation of basic concepts, with practical discussions and comparisons of both computational tools and databases relevant to biological research. Equipping biologists with the modern tools necessary to solve practical problems in sequence data analysis, the Second Edition covers the broad spectrum of topics in bioinformatics, ranging from Internet concepts to predictive algorithms used on sequence, structure, and expression data. With chapters written by experts in the field, this up-to-date reference thoroughly covers vital concepts and is appropriate for both the novice and the experienced practitioner. Written in clear, simple language, the book is accessible to users without an advanced mathematical or computer science background. This new edition includes: All new end-of-chapter Web resources, bibliographies, and problem sets Accompanying Web site containing the answers to the problems, as well as links to relevant Web resources New coverage of comparative genomics, large-scale genome analysis, sequence assembly, and expressed sequence tags A glossary of commonly used terms in bioinformatics and genomics Bioinformatics: A Practical Guide to the Analysis of Genes and Proteins, Second Edition is essential reading for researchers, instructors, and students of all levels in molecular biology and bioinformatics, as well as for investigators involved in genomics, positional cloning, clinical research, and computational biology.

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