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Microbiology - Nina Parker 2016-05-30

"Microbiology covers the scope and sequence requirements for a single-semester microbiology course for non-majors. The book presents the core concepts of microbiology with a focus on applications for careers in allied health. The pedagogical features of the text make the material interesting and accessible while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The book aligns with the curriculum guidelines of the American Society for Microbiology."--BC Campus website.

Glencoe Biology, Student Edition - McGraw-Hill Education 2016-06-06

Specialty Corns, Second Edition - Arnel R. Hallauer 2000-08-23

Completely revised and updated, the Second Edition of Specialty Corns includes everything in the first edition and more. Considered the standard in this field, significant changes have been made to keep all the information current and bring the references up-to-date. Two new chapters have been added to keep up with the latest trends: Blue Corn and Baby Corn. Access the latest methods in developing specialty corns with this standard-setting reference. Edited by an expert in the field who has spent his professional life working with corn, Specialty Corns, Second Edition discusses the genetic variation inherent in corn, genetic materials available, breeding methods, and special problems associated with the development of specialty corns. Hallauer has assembled a team of international experts who have contributed to this work.

Genetics - W. Randy Brooks 2007-07-16

The basic principles of genetics. Reference for any student studying genetics.

Methods in Statistical Genomics - Philip Chester Cooley 2016-08-29

The objective of this book is to describe procedures for analyzing genome-wide association studies (GWAS). Some of the material is unpublished and contains commentary and unpublished research; other chapters (Chapters 4 through 7) have been published in other journals. Each previously published chapter investigates a different genomics model, but all focus on identifying the strengths and limitations of various statistical procedures that have been applied to different GWAS scenarios.

Human Genetics and Genomics - Bruce R. Korf 2012-11-19

This fourth edition of the best-selling textbook, Human Genetics and Genomics, clearly explains the key principles needed by medical and health sciences students, from the basis of molecular genetics, to clinical applications used in the treatment of both rare and common conditions. A newly expanded Part 1, Basic Principles of Human Genetics, focuses on introducing the reader to key concepts such as Mendelian principles, DNA replication and gene expression. Part 2, Genetics and Genomics in Medical Practice, uses case scenarios to help you engage with current genetic practice. Now featuring full-color diagrams, Human Genetics and Genomics has been rigorously updated to reflect today's genetics teaching, and includes updated discussion of genetic risk assessment, "single gene" disorders and therapeutics. Key learning features include: Clinical snapshots to help relate science to practice 'Hot topics' boxes that focus on the latest developments in testing, assessment and treatment 'Ethical issues' boxes to prompt further thought and discussion on the implications of genetic developments 'Sources of information' boxes to assist with the practicalities of clinical research and information provision Self-assessment review questions in each chapter Accompanied by the Wiley E-Text digital edition (included in the price of the book), Human Genetics and Genomics is also fully supported by a suite of online resources at www.korfgenetics.com, including:

Factsheets on 100 genetic disorders, ideal for study and exam preparation Interactive Multiple Choice Questions (MCQs) with feedback on all answers Links to online resources for further study Figures from the book available as PowerPoint slides, ideal for teaching purposes The perfect companion to the genetics component of both problem-based learning and integrated medical courses, Human Genetics and Genomics presents the ideal balance between the bio-molecular basis of genetics and clinical cases, and provides an invaluable overview for anyone wishing to engage with this fast-moving discipline.

Population Genetics - John H. Gillespie 2004-08-06

Publisher Description

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.

Primer of Genetic Analysis - James N. Thompson, Jr 2007-10-01

An invaluable student-tested study aid, this primer, first published in 2007, provides guided instruction for the analysis and interpretation of genetic principles and practice in problem solving. Each section is introduced with a summary of useful hints for problem solving and an overview of the topic with key terms. A series of problems, generally progressing from simple to more complex, then allows students to test their understanding of the material. Each question and answer is accompanied by detailed explanation. This third edition includes additional problems in basic areas that often challenge students, extended coverage in molecular biology and development, an expanded glossary of terms, and updated historical landmarks. Students at all levels, from beginning biologists and premedical students to graduates seeking a review of basic genetics, will find this book a valuable aid. It will complement the formal presentation in any genetics textbook or stand alone as a self-paced review manual.

Biology - John Campton 2016-04-29

Reinforce students' understanding throughout their course; clear topic summaries with sample questions and answers will improve exam technique to achieve higher grades. Written by examiners and teachers, Student Guides: · Help students identify what they need to know with a concise summary of the topics examined in the AS and A-level specification · Consolidate understanding with exam tips and knowledge check questions · Provide opportunities to improve exam technique with sample graded answers to exam-style questions · Develop independent learning and research skills · Provide the content for generating individual revision notes

Genetics and Genomics in Medicine - Tom Strachan 2014-06-02

Genetics and Genomics in Medicine is a new textbook written for undergraduate students, graduate students, and medical researchers that explains the science behind the uses of genetics and genomics in medicine today. Rather than focusing narrowly on rare inherited and chromosomal disorders, it is a comprehensive and integrated account of how geneti

Biology for Engineers - G K. SURAISHKUMAR 2019-08

Biology for Engineers is an interdisciplinary textbook designed for the students of various engineering streams to appreciate the link between biological science and engineering.

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.

Experiments in Plant-hybridisation - Gregor Mendel 1925

Genetics and Molecular Biology - Robert F. Schleif 1993

In the first edition of *Genetics and Molecular Biology*, renowned researcher and award-winning teacher Robert Schleif produced a unique and stimulating text that was a notable departure from the standard compendia of facts and observations. Schleif's strategy was to present the underlying fundamental concepts of molecular biology with clear explanations and critical analysis of well-chosen experiments. The result was a concise and practical approach that offered students a real understanding of the subject. This second edition retains that valuable approach—with material thoroughly updated to include an integrated treatment of prokaryotic and eukaryotic molecular biology. *Genetics and Molecular Biology* is copiously illustrated with two-color line art. Each chapter includes an extensive list of important references to the primary literature, as well as many innovative and thought-provoking problems on material covered in the text or on related topics. These help focus the student's attention on a variety of critical issues. Solutions are provided for half of the problems. Praise for the first edition: "Schleif's *Genetics and Molecular Biology*... is a remarkable achievement. It is an advanced text, derived from material taught largely to postgraduates, and will probably be thought best suited to budding professionals in molecular genetics. In some ways this would be a pity, because there is also gold here for the rest of us... The lessons here in dealing with the information explosion in biology are that an ounce of rationale is worth a pound of facts and that, for educational value, there is nothing to beat an author writing about stuff he knows from the inside."—Nature. "Schleif presents a quantitative, chemically rigorous approach to analyzing problems in molecular biology. The text is unique and clearly superior to any currently available."—R.L. Bernstein, San Francisco State University. "The greatest strength is the author's ability to challenge the student to become involved and get below the surface."—Clifford Brunk, UCLA

Innate - Kevin J. Mitchell 2020-03-31

"What makes you the way you are—and what makes each of us different from everyone else? In *Innate*, leading neuroscientist and popular science blogger Kevin Mitchell traces human diversity and individual differences to their deepest level: in the wiring of our brains. Deftly guiding us through important new research, including his own groundbreaking work, he explains how variations in the way our brains develop before birth strongly influence our psychology and behavior throughout our lives, shaping our personality, intelligence, sexuality, and even the way we perceive the world. We all share a genetic program for making a human brain, and the program for making a brain like yours is specifically encoded in your DNA. But, as Mitchell explains, the way that program plays out is affected by random processes of development that manifest uniquely in each person, even identical twins. The key insight of *Innate* is that the combination of these developmental and genetic variations creates innate differences in how our brains are wired—differences that impact all aspects of our psychology—and this insight promises to transform the way we see the interplay of nature and nurture. *Innate* also explores the genetic and neural underpinnings of disorders such as autism, schizophrenia, and epilepsy, and how our

understanding of these conditions is being revolutionized. In addition, the book examines the social and ethical implications of these ideas and of new technologies that may soon offer the means to predict or manipulate human traits. Compelling and original, *Innate* will change the way you think about why and how we are who we are."—Provided by the publisher.

Mutating Concepts, Evolving Disciplines: Genetics, Medicine, and Society - L.S. Parker 2012-12-06

This volume employs philosophical and historical perspectives to shed light on classic social, ethical, and philosophical issues raised with renewed urgency against the backdrop of the mapping of the human genome. Philosophers and historians of science and medicine, ethicists, and those interested in the reciprocal influence of science and other cultural practices will find the arguments and observations offered fascinating and indispensable.

Plant Biotechnology and Genetics - C. Neal Stewart, Jr. 2012-12-13

Designed to inform and inspire the next generation of plant biotechnologists *Plant Biotechnology and Genetics* explores contemporary techniques and applications of plant biotechnology, illustrating the tremendous potential this technology has to change our world by improving the food supply. As an introductory text, its focus is on basic science and processes. It guides students from plant biology and genetics to breeding to principles and applications of plant biotechnology. Next, the text examines the critical issues of patents and intellectual property and then tackles the many controversies and consumer concerns over transgenic plants. The final chapter of the book provides an expert forecast of the future of plant biotechnology. Each chapter has been written by one or more leading practitioners in the field and then carefully edited to ensure thoroughness and consistency. The chapters are organized so that each one progressively builds upon the previous chapters. Questions set forth in each chapter help students deepen their understanding and facilitate classroom discussions. Inspirational autobiographical essays, written by pioneers and eminent scientists in the field today, are interspersed throughout the text. Authors explain how they became involved in the field and offer a personal perspective on their contributions and the future of the field. The text's accompanying CD-ROM offers full-color figures that can be used in classroom presentations with other teaching aids available online. This text is recommended for junior- and senior-level courses in plant biotechnology or plant genetics and for courses devoted to special topics at both the undergraduate and graduate levels. It is also an ideal reference for practitioners.

Solitude of a Humble Genius - Gregor Johann Mendel: Volume 1 - Jan Klein 2013-08-28

Gregor Johann Mendel continues to fascinate the general public as well as scholars, the former for his life and the latter for his achievements. *Solitude of a Humble Genius* is a two-volume biography presenting Mendel in the context of the history of biology and philosophy, and in the context of the setting in which he lived and worked. In this first volume the authors set the stage for a new interpretation of Mendel's achievements and personality. The period of Mendel's life covered by this volume is critical to understanding why he saw what other biologists, including Charles Darwin, for example, didn't. In searching for clues to Mendel's thinking, the authors discuss at length the origin of his genes; the history of the region of his birth; they also spend a day and then the four seasons of the year with his family; and finally they examine the schooling he received, as well as the cultural and political influences he was exposed to. An indispensable part of the work is Norman Klein's artwork. In this first volume alone, it comprises nearly 80 original drawings and includes cartoons that enliven the narration, scenes from Mendel's life, portraits, and plans and drawings of the cities and buildings in which he lived, studied, and worked.

IB Biology Student Workbook - Tracey Greenwood 2014-10-02

Plant Evolution - Karl J. Niklas 2016-08-12

Although plants comprise more than 90% of all visible life, and land plants and algae collectively make up the most morphologically, physiologically, and ecologically diverse group of organisms on earth, books on evolution instead tend to focus on animals. This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory. Because plants grow and reproduce differently than animals, they have evolved differently, and generally accepted evolutionary views—as, for example, the standard models of speciation—often fail to hold when applied to them. Tapping such wide-ranging topics as genetics, gene regulatory networks, phenotype

mapping, and multicellularity, as well as paleobotany, Karl J. Niklas's *Plant Evolution* offers fresh insight into these differences. Following up on his landmark book *The Evolutionary Biology of Plants*—in which he drew on cutting-edge computer simulations that used plants as models to illuminate key evolutionary theories—Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology, conveying not only why the study of evolution is so important, but also why the study of plants is essential to our understanding of evolutionary processes. Niklas shows us that investigating the intricacies of plant development, the diversification of early vascular land plants, and larger patterns in plant evolution is not just a botanical pursuit: it is vital to our comprehension of the history of all life on this green planet.

Explorations - Beth Shook 2019-12-20

Welcome to Explorations and biological anthropology! An electronic version of this textbook is available free of charge at the Society for Anthropology in Community Colleges' webpage here:

www.explorations.americananthro.org

Molecular Biology of the Cell - Bruce Alberts 2004

Adaptation and Natural Selection - George Christopher Williams 2018-10-30

Biological evolution is a fact—but the many conflicting theories of evolution remain controversial even today. When *Adaptation and Natural Selection* was first published in 1966, it struck a powerful blow against those who argued for the concept of group selection—the idea that evolution acts to select entire species rather than individuals. Williams's famous work in favor of simple Darwinism over group selection has become a classic of science literature, valued for its thorough and convincing argument and its relevance to many fields outside of biology. Now with a new foreword by Richard Dawkins, *Adaptation and Natural Selection* is an essential text for understanding the nature of scientific debate.

The Molecularisation of Security - Christopher Long 2021-09-24

This book investigates the way that the molecular sciences are shaping contemporary security practices in relation to the governance of biological threats. In response to biological threats, such as pandemics and bioterrorism, governments around the world have developed a range of new security technologies, called medical countermeasures, to protect their populations. This book argues that the molecular sciences' influence has been so great that security practices have been molecularised. Focusing on the actions of international organisations and governments in the past two decades, this book identifies two contrasting conceptions of the nature or inherent workings of molecular life as driving this turn. On the one hand, political notions of insecurity have been shaped by the contingent or random nature of molecular life. On the other, the identification of molecular life's constant biological dynamics supports and makes possible the development and stockpiling of effective medical countermeasures. This study is one of the few to take seriously the conceptual implications that the detailed empirical workings of biotechnology have on security practices today. This book will be of much interest to students of security studies, bio-politics, life sciences, global governance, and International Relations in general.

History of Human Genetics - Heike I. Petermann 2017-05-10

Written by 30 authors from all over the world, this book provides a unique overview of exciting discoveries and surprising developments in human genetics over the last 50 years. The individual contributions, based on seven international workshops on the history of human genetics, cover a diverse range of topics, including the early years of the discipline, gene mapping and diagnostics. Further, they discuss the status quo of human genetics in different countries and highlight the value of genetic counseling as an important subfield of medical genetics.

Concepts of Genetics - William S. Klug 2013-07-23

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.

Biochemistry and Genetics Pretest Self-Assessment and Review 5/E - Golder Wilson 2013-06-05

PreTest is the closest you can get to seeing the USMLE Step 1 before you take it! 500 USMLE-style questions and answers! Great for course review and the USMLE Step 1, PreTest asks the right questions so you'll know the right answers. You'll find 500 clinical-vignette style questions and answers along with complete explanations of correct and incorrect answers. The content has been reviewed by students who recently passed their exams, so you know you are studying the most relevant and

up-to-date material possible. No other study guide targets what you really need to know in order to pass like PreTest!

Science Notebook - Douglas Fisher 2006-06-01

Principles of Nutrigenetics and Nutrigenomics - Raffaele De Caterina 2019-09-22

Principles of Nutrigenetics and Nutrigenomics: Fundamentals for Individualized Nutrition is the most comprehensive foundational text on the complex topics of nutrigenetics and nutrigenomics. Edited by three leaders in the field with contributions from the most well-cited researchers conducting groundbreaking research in the field, the book covers how the genetic makeup influences the response to foods and nutrients and how nutrients affect gene expression. *Principles of Nutrigenetics and Nutrigenomics: Fundamentals for Individualized Nutrition* is broken into four parts providing a valuable overview of genetics, nutrigenetics, and nutrigenomics, and a conclusion that helps to translate research into practice. With an overview of the background, evidence, challenges, and opportunities in the field, readers will come away with a strong understanding of how this new science is the frontier of medical nutrition. *Principles of Nutrigenetics and Nutrigenomics: Fundamentals for Individualized Nutrition* is a valuable reference for students and researchers studying nutrition, genetics, medicine, and related fields. Uniquely foundational, comprehensive, and systematic approach with full evidence-based coverage of established and emerging topics in nutrigenetics and nutrigenomics Includes a valuable guide to ethics for genetic testing for nutritional advice Chapters include definitions, methods, summaries, figures, and tables to help students, researchers, and faculty grasp key concepts Companion website includes slide decks, images, questions, and other teaching and learning aids designed to facilitate communication and comprehension of the content presented in the book

Molecular Evolution - Roderick D.M. Page 2009-07-14

The study of evolution at the molecular level has given the subject of evolutionary biology a new significance. Phylogenetic 'trees' of gene sequences are a powerful tool for recovering evolutionary relationships among species, and can be used to answer a broad range of evolutionary and ecological questions. They are also beginning to permeate the medical sciences. In this book, the authors approach the study of molecular evolution with the phylogenetic tree as a central metaphor. This will equip students and professionals with the ability to see both the evolutionary relevance of molecular data, and the significance evolutionary theory has for molecular studies. The book is accessible yet sufficiently detailed and explicit so that the student can learn the mechanics of the procedures discussed. The book is intended for senior undergraduate and graduate students taking courses in molecular evolution/phylogenetic reconstruction. It will also be a useful supplement for students taking wider courses in evolution, as well as a valuable resource for professionals. First student textbook of phylogenetic reconstruction which uses the tree as a central metaphor of evolution. Chapter summaries and annotated suggestions for further reading. Worked examples facilitate understanding of some of the more complex issues. Emphasis on clarity and accessibility.

Science as a Way of Knowing - John Alexander Moore 1999

This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.

CLEP - College Entrance Examination Board 2004-08-03

Offers advice about taking multiple choice and essay CLEP examinations; describes each subject on the test, including English, foreign languages, and history; and aids in the interpretation of scores.

Mendel's Principles of Heredity - William Bateson 1902

Bateson named the science "genetics" in 1905-1906. This is the first textbook in English on the subject of genetics.

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.

Biology 2e - Mary Ann Clark 2018-04

An Introduction to Forest Genetics - 2006

Cells and Surveys - National Research Council 2001-01-19

What can social science, and demography in particular, reasonably expect to learn from biological information? There is increasing pressure for multipurpose household surveys to collect biological data along with the more familiar interviewer-respondent information. Given that recent technical developments have made it more feasible to collect biological information in non-clinical settings, those who fund, design, and analyze survey data need to think through the rationale and potential consequences. This is a concern that transcends national boundaries. *Cells and Surveys* addresses issues such as which biologic/genetic data should be collected in order to be most useful to a range of social scientists and whether amassing biological data has unintended side effects. The book also takes a look at the various ethical and legal concerns that such data collection entails.

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.

An Introduction to Genetic Engineering - Desmond S. T. Nicholl 2002-02-07

The author presents a basic introduction to the world of genetic engineering. Copyright © Libri GmbH. All rights reserved.