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 Genetics
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 Genetics Education
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Genesis Cambridge University Press

Human Genetics, 6/e is a non-science majors human genetics text that clearly explains what genes are, how they function, how they interact with the environment, and how our understanding of genetics has changed since completion of the human genome project. It is a clear, modern, and exciting book for citizens who will be responsible for evaluating new medical options, new foods, and new technologies in the age of genomics.

Biosocial Surveys Princeton University Press

The institutionalization of History and Philosophy of Science as a distinct field of scholarly endeavour began comparatively early -- though not always under that name -- in the Australasian region. An initial lecturing appointment was made at the University of Melbourne immediately after the Second World War, in 1946, and other appointments followed as the subject underwent

an expansion during the 1950s and 1960s similar to that which took place in other parts of the world. Today there are major Departments at the University of Melbourne, the University of New South Wales and the University of Wollongong, and smaller groups active in many other parts of Australia and in New Zealand. 'Australasian Studies in History and Philosophy of Science' aims to provide a distinctive publication outlet for Australian and New Zealand scholars working in the general area of history, philosophy and social studies of science. Each volume comprises a group of essays on a connected theme, edited by an Australian or a New Zealander with special expertise in that particular area. Papers address general issues, however, rather than local ones; parochial topics are avoided. Further more, though in each volume a majority of the contributors is from Australia or New Zealand, contributions from elsewhere are by no means ruled out. Quite the reverse, in fact -- they are actively encouraged wherever appropriate to the balance of the volume in question.

Concepts of Biology CRC Press

What is evolution? What is a gene? How did these concepts originate and how did they develop?

This book is a short history ranging from Lamarck and Darwin to DNA and the Human Genome Project, exploring the conceptual oppositions, techniques, institutional conditions and controversies that have shaped the development of biology.

Human Genetics McGraw-Hill

Biosocial Surveys analyzes the latest research on the increasing number of multipurpose household surveys that collect biological data along with the more familiar interviewer-respondent information. This book serves as a follow-up to the 2003 volume, *Cells and Surveys: Should Biological Measures Be Included in Social Science Research?* and asks these questions: What have the social sciences, especially demography, learned from those efforts and the greater interdisciplinary communication that has resulted from them? Which biological or genetic information has proven most useful to researchers? How can better models be developed to help integrate biological and social science information in ways that can broaden scientific understanding? This volume contains a collection of 17 papers by distinguished experts in demography, biology, economics, epidemiology, and survey methodology. It is an invaluable

sourcebook for social and behavioral science researchers who are working with biosocial data.

Essential Genetics Cambridge University Press

Master biology with Schaum's-it will help you cut study time, hone problem-solving skills and help with exams.

[Schaum's Outline of Biology, Fifth Edition](#) McGraw Hill Professional

bull; bull;Genetics bull;Principles of Genetics bull;Introduction to Genetics

Genetics Springer Science & Business Media

This book illustrates that the stereotypical representations of Gregor Mendel and his work misrepresent his findings and their historical context. The author sets the historical record straight and provides scientists with a reference guide to the respective scholarship in the early history of genetics. The overarching argument is twofold: on the one hand, that we had better avoid naïve hero-worshipping and understand each historical figure, Mendel in particular, by placing them in the actual sociocultural context in which they lived and worked; on the other hand, that we had better refrain from teaching in schools the naive Mendelian genetics that provided the presumed "scientific" basis for eugenics. Key Features Corrects the distorting stereotypical representations of Mendelian genetics and provides an authentic picture of how science is done, focusing on Gregor Mendel and his actual contributions to science Explains how the oversimplifications of Mendelian genetics were exploited by ideologues to provide the presumed "scientific" basis for eugenics Proposes a shift in school education from teaching how the science of genetics is done using model systems to teaching the complexities of development through which heredity is materialized

The Influence of Genetics on Contemporary Thinking Halsted Press

Updated to reflect the latest discoveries in the field, the Fifth Edition of Hartl's classic text provides an accessible, student-friendly introduction to contemporary genetics. Designed for the shorter, less comprehensive introductory course, *Essential Genetics: A Genomic Perspective, Fifth Edition* includes carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation. New and updated sections on genetic analysis, molecular genetics, probability in genetics, and pathogenicity islands ensure that students are kept up-to-date on current key topics. The text also provides students with a sense of the social and historical context in which genetics has developed. The updated companion web site provides numerous study tools, such as animated flashcards, crosswords, practice quizzes and more! New and expanded end-of-chapter material allows for a mastery of key genetics concepts and is ideal for homework assignments and in-class discussion.

Analysis of Genes and Genomes Cambridge University Press

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!

Inquiry Into Biology: ... Computerized assessment bank CD-ROM Harvard University Press

A major new book overturning our assumptions about how evolution works Earth's natural history is full of fascinating instances of convergence: phenomena like eyes and wings and tree-climbing lizards that have evolved independently, multiple times. But evolutionary biologists also point out many examples of contingency, cases where the tiniest change—a random mutation or an ancient butterfly sneeze—caused evolution to take a completely different course. What role does each force really play in the constantly changing natural world? Are the plants and animals that exist today, and we humans ourselves, inevitabilities or evolutionary flukes? And what does that say about life on other planets? Jonathan Losos reveals what the latest breakthroughs in evolutionary biology can tell us about one of the greatest ongoing debates in science. He takes us around the globe to meet the researchers who are solving the deepest mysteries of life on Earth through their

work in experimental evolutionary science. Losos himself is one of the leaders in this exciting new field, and he illustrates how experiments with guppies, fruit flies, bacteria, foxes, and field mice, along with his own work with anole lizards on Caribbean islands, are rewinding the tape of life to reveal just how rapid and predictable evolution can be. Improbable Destinies will change the way we think and talk about evolution. Losos's insights into natural selection and evolutionary change have far-reaching applications for protecting ecosystems, securing our food supply, and fighting off harmful viruses and bacteria. This compelling narrative offers a new understanding of ourselves and our role in the natural world and the cosmos.

How we Get Mendel Wrong, and Why it Matters Jones & Bartlett Learning

An introduction to the history of genetics and the rethinking of evolutionism.

Genetics McGraw Hill Professional

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.

The Life Sciences National Academies

Unifying Biology offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science: the evolutionary synthesis of the 1930s and 1940s. For more than seventy years after Darwin proposed his theory of evolution, it was hotly debated by biological scientists. It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists. Using methods gleaned from a variety of disciplines, Vassiliki Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences. At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics, they were, according to the author, also working together to establish an autonomous community of evolutionists. Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge. In developing her argument, she pays close attention to the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science. Drawing from some of the most exciting recent approaches in science studies and cultural studies, she argues that science is a culture, complete with language, rituals, texts, and practices. Unifying Biology offers not only its own new synthesis of the history of modern evolution, but also a new way of "doing history."

Experiments in Plant-hybridisation Macmillan

Will revolutionize reader's understanding of the principles of modern genetics, Nazi racial policies and the relationship between them.

[Schaum's Outline of Theory and Problems of Biology](#) McGraw Hill Professional

"Endless forms most beautiful and most wonderful have been, and are being, evolved." Darwin famously concluded *The Origin of Species*, and for confirmation we look to...the guinea pig? How this curious creature and others as humble (and as fast-breeding) have helped unlock the mystery of inheritance is the unlikely story Jim Endersby tells in this book. Biology today promises everything from better foods or cures for common diseases to the alarming prospect of redesigning life itself. Looking at the organisms that have made all this possible gives us a new way of understanding how we got here--and perhaps of thinking about where we're going. Instead of a history of which great scientists had which great ideas, this story of passionflowers and hawkweeds, of zebra fish and viruses, offers a bird's (or rodent's) eye view of the work that makes science possible. Mixing the celebrities of genetics, like the fruit fly, with forgotten players such as the evening primrose, the book follows the unfolding history of biological inheritance from Aristotle's search for the "universal, absolute truth of fishiness" to the apparently absurd speculations of eighteenth-century natural philosophers to the spectacular findings of our day--which may prove to be the absurdities of tomorrow. The result is a quirky, enlightening, and thoroughly engaging perspective on the history of heredity and genetics, tracing the slow, uncertain path--complete with entertaining diversions and dead ends--that led us from the ancient world's understanding of inheritance to modern genetics.

Campbell Biology, AP* Edition - With CD Oxford : Oxford University Press

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

[Science as a Way of Knowing](#) Jones & Bartlett Publishers

Unique in its focus on eukaryotic molecular biology, this textbook provides a distillation of the essential concepts of molecular biology, supported by current examples, experimental evidence, and boxes that address related diseases, methods, and techniques. End-of-chapter analytical questions are well designed and will enable students to apply the information they learned in the chapter. A supplementary website include self-tests for students, resources for instructors, as well as figures and animations for classroom use.

Genetics McGraw-Hill Education

This book, a collection of essays written by the most eminent evolutionary biologist of the twentieth century, explores biology as an autonomous science, offers insights on the history of evolutionary thought, critiques the contributions of philosophy to the science of biology, and comments on several of the major ongoing issues in evolutionary theory. Notably, Mayr explains that Darwin's theory of evolution is actually five separate theories, each with its own history, trajectory and impact. Natural selection is a separate idea from common descent, and from geographic speciation, and so on. A number of the perennial Darwinian controversies may well have been caused by the confounding of the five separate theories into a single composite. Those interested in evolutionary theory, or the philosophy and history of science will find useful ideas in this book, which should appeal to virtually anyone with a broad curiosity about biology.

[Mendel's Principles of Heredity](#) Springer

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

The Mendelian Revolution National Academies Press

Based on the author's more than twenty years of teaching experience, *Genetics: A Conceptual Approach* offers a fresh new way of introducing the major concepts and mechanics of genetics, focusing students on the big picture without overwhelming them with detail.

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