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World-renowned economist Klaus Schwab, Founder and Executive Chairman of the World Economic Forum, explains that we have an

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opportunity to shape the fourth industrial revolution, which will fundamentally alter how we live and work. Schwab argues that this revolution is different in scale, scope and complexity from any that have come before. Characterized by a range

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of new technologies that are fusing the physical, digital and biological worlds, the developments are affecting all disciplines, economies, industries and governments, and even challenging ideas about what it means to be human. Artificial intelligence is already all

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around us, from supercomputers, drones and virtual assistants to 3D printing, DNA sequencing, smart thermostats, wearable sensors and microchips smaller than a grain of sand. But this is just the beginning: nanomaterials 200 times stronger than

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steel and a million times thinner than a strand of hair and the first transplant of a 3D printed liver are already in development. Imagine “smart factories” in which global systems of manufacturing are coordinated virtually, or implantable mobile phones

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made of biosynthetic materials. The fourth industrial revolution, says Schwab, is more significant, and its ramifications more profound, than in any prior period of human history. He outlines the key technologies driving this revolution and discusses the major

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impacts expected on government, business, civil society and individuals. Schwab also offers bold ideas on how to harness these changes and shape a better future—one in which technology empowers people rather than replaces them; progress serves society rather

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than disrupts it; and in which innovators respect moral and ethical boundaries rather than cross them. We all have the opportunity to contribute to developing new frameworks that advance progress.

Scores of talented and dedicated people

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serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are

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needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed

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plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating

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the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration.

Strengthening Forensic Science in the United States gives a full account of

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what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and

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accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

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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

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connect to one another. The new edition features Pierce's signature writing style, relevant applications, student-friendly art, and emphasis on problem-solving, while incorporating the latest trends in genetics research. The new edition text and LaunchPad

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media work closely together for a seamless experience for both instructors and students.

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-

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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

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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

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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

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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

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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

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concepts.

Cartoon Guide to Genetics

Genetics: A Conceptual Approach

Laboratory Investigations

A Lifestage Approach

A Path Forward

Rejecting the Colonial Politics of

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Recognition

Using the concept of the opportunity for sexual selection, the authors illustrate how and why sexual selection, though restricted to one sex and opposed in the other, is one of

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the strongest and fastest of all evolutionary forces.

With *Genetics: A Conceptual Approach*, Ben Pierce brings a master teacher's experiences to the introductory genetics textbook, clarifying this complex

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subject by focusing on the big picture of genetics concepts and how those concepts connect to one another. The new edition continues the Pierce tradition of pedagogical excellence and scientific currency. In addition, it

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features a new digital component, SaplingPlus, combining Sapling's acclaimed online homework with an extensive suite of interactive learning resources and course management features. See

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‘Instructor Resources’ and
‘Student Resources’ for further
information.

Your no-nonsense guide to
genetics With rapid advances in
genomic technologies, genetic
testing has become a key part of

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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

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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

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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

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this exciting and constantly evolving field. This edition includes recent developments and applications in the field of genetics, such as: Whole-genome and whole-exome sequencing Precision medicine

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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

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head around this fascinating subject.

Contemporary research in the field of evolutionary developmental biology, or 'evo-devo', has to date been predominantly devoted to

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interpreting basic features of animal architecture in molecular genetics terms. Considerably less time has been spent on the exploitation of the wealth of facts and concepts available from traditional disciplines, such as

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comparative morphology, even though these traditional approaches can continue to offer a fresh insight into evolutionary developmental questions. The Development of Animal Form aims to integrate traditional

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morphological and contemporary
molecular genetic approaches
and to deal with post-embryonic
development as well. This
approach leads to
unconventional views on the
basic features of animal

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organization, such as body axes, symmetry, segments, body regions, appendages and related concepts. This book will be of particular interest to graduate students and researchers in evolutionary and developmental

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biology, as well as to those in related areas of cell biology, genetics and zoology.

An Oral History as Told by Jon Stewart, the Correspondents, Staff and Guests

Parasitology

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Genomics of Rare Diseases
The Development of Animal
Form
Mating Systems and Strategies
A Conceptual Approach
WINNER OF: Frantz Fanon
Outstanding Book from the

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Caribbean Philosophical
Association Canadian Political
Science Association's C.B.
MacPherson Prize Studies in
Political Economy Book Prize Over
the past forty years, recognition has
become the dominant mode of

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negotiation and decolonization between the nation-state and Indigenous nations in North America. The term "recognition" shapes debates over Indigenous cultural distinctiveness, Indigenous rights to land and self-government,

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and Indigenous peoples' right to benefit from the development of their lands and resources. In a work of critically engaged political theory, Glen Sean Coulthard challenges recognition as a method of organizing difference and identity

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in liberal politics, questioning the assumption that contemporary difference and past histories of destructive colonialism between the state and Indigenous peoples can be reconciled through a process of acknowledgment. Beyond this,

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Coulthard examines an alternative politics—one that seeks to revalue, reconstruct, and redeploy Indigenous cultural practices based on self-recognition rather than on seeking appreciation from the very agents of colonialism. Coulthard

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demonstrates how a “place-based” modification of Karl Marx’s theory of “primitive accumulation” throws light on Indigenous–state relations in settler-colonial contexts and how Frantz Fanon’s critique of colonial recognition shows that this

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relationship reproduces itself over time. This framework strengthens his exploration of the ways that the politics of recognition has come to serve the interests of settler-colonial power. In addressing the core tenets of Indigenous resistance movements,

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like Red Power and Idle No More, Coulthard offers fresh insights into the politics of active decolonization. This manual contains complete answers and worked-out solutions to all questions and problems that appear in the textbook.

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Snustad's 6th edition of Principles of Genetics offers many new and advanced features including boxed sections with the latest advances in Genetics, a streamlined roster of topics, a more reader-friendly layout, and new problem-solving

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supplements. Furthermore, this new edition includes more problem solving within each chapter through the Test Your Problem Solving Skills feature and a Solve It icon to prompt readers to go online to WileyPlus for animated tutorials. A new

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one-column design better showcases important pieces of art and avoids the "overwhelmed" reaction readers have to the crowded layouts found in many other texts. Boxed sections reduce in size to help maintain the flow of the

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text and the Focus On boxes are revised to include the most current developments in genetics as well as most relevant topics.

With *Genetics: A Conceptual Approach*, Ben Pierce brings a master teacher's experiences to the

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introductory genetics textbook, clarifying this complex subject by focusing on the big picture of genetics concepts and how those concepts connect to one another. The new edition continues the Pierce tradition of pedagogical

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excellence and scientific currency. In addition, it features a new digital component, SaplingPlus, combining Sapling's acclaimed online homework with an extensive suite of interactive learning resources and course management features.

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IGenetics

Ontogeny, Morphology, and
Evolution

A Practical Approach to
Phylogenetic Analysis and
Hypothesis Testing

Strengthening Forensic Science in

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the United States

Achieve for Genetics 1-term Access

Evolutionary Genetics

Genetics is increasingly

important in health care

provision, but its relevance on

a day-to-day basis is often

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poorly understood. Genetics for Healthcare Professionals introduces the general principles of genetics and links these to real world examples, to allow nurses, midwives, genetic counselors and doctors

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to apply this knowledge in their routine clinical practice. The book takes an holistic family-oriented approach, from preconception to adulthood, and addresses the misconception that clinical

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genetics is only of relevance to those who are reproducing.

Genetics for Healthcare Professionals is an essential textbook of genetics for nurses, midwives, genetic counselors and doctors. An

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ideal coursebook for students in the healthcare professions, it is also written for qualified staff seeking an update on current issues and how to apply them in practice.

Parasitology: A Conceptual

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Approach is a new textbook for upper-level undergraduate and graduate students which focuses on concepts and principles without neglecting important aspects of a traditional, taxonomically

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based approach to parasitology. Concentrating on concepts enables readers to gain a broader perspective that will increase their ability to think critically about various parasitic associations. The

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interfaces between the study of parasitism and prominent biological disciplines such as biodiversity, immunology, ecology, evolution, conservation biology, and disease control are highlighted.

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End-of-chapter questions are provided, as is an Instructor Manual. Information on individual parasites is expertly summarized in a concise appendix called the Rogues' Gallery. This appendix is

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organized taxonomically and includes details on taxonomy, life cycle, associated pathology, treatment, and control. Species included in the Rogues' Gallery are highlighted in red throughout the main

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text.

*Have you ever asked yourself:
Are spliced genes the same as
mended Levis? Watson and
Crick? Aren't they a team of
British detectives? Plant sex?
Can they do that? Is Genetic*

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Mutation the name of one of those heavy metal bands? Asparagine? Which of the four food groups is that in? Then you need The Cartoon Guide to Genetics to explain the important concepts of classical

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and modern genetics—it's not only educational, it's funny too! Featuring new experiments unique to this lab textbook, as well as new and revised essays and updated techniques, this Sixth Edition provides the up-to-

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date coverage students need to succeed in their coursework and future careers. From biofuels, green chemistry, and nanotechnology, the book's experiments, designed to utilize microscale glassware

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and equipment, demonstrate the relationship between organic chemistry and everyday life, with project-and biological or health science focused experiments. As they move through the book,

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students will experience traditional organic reactions and syntheses, the isolation of natural products, and molecular modeling. Important Notice: Media content referenced within the product

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*description or the product text
may not be available in the
ebook version.*

*Loose-Leaf Version for
Genetics: a Conceptual
Approach
Genetics*

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*Red Skin, White Masks
The Autobiography of a
Species in 23 Chapters
The Fourth Industrial
Revolution
Genetics for Healthcare
Professionals*

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***Genomics of Rare Diseases:
Understanding Disease Genetics
Using Genomic Approaches, a
new volume in the Translational
and Applied Genomics series,
offers readers a broad
understanding of current
knowledge on rare diseases***

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through a genomics lens. This clear understanding of the latest molecular and genomic technologies used to elucidate the molecular causes of more than 5,000 genetic disorders brings readers closer to unraveling many more that

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remain undefined and undiscovered. The challenges associated with performing rare disease research are also discussed, as well as the opportunities that the study of these disorders provides for improving our understanding of

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disease architecture and pathophysiology. Leading chapter authors in the field discuss approaches such as karyotyping and genomic sequencing for the better diagnosis and treatment of conditions including recessive diseases, dominant and X-linked

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disorders, de novo mutations, sporadic disorders and mosaicism. Compiles applied case studies and methodologies, enabling researchers, clinicians and healthcare providers to effectively classify DNA variants associated with disease and

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patient phenotypes Discusses the main challenges in studying the genetics of rare diseases through genomic approaches and possible or ongoing solutions Explores opportunities for novel therapeutics Features chapter contributions from leading

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***researchers and clinicians
Handbook of Clinical Adult
Genetics and Genomics: A
Practice-Based Approach
provides a thorough overview of
genetic disorders that are
commonly encountered in adult
populations and supports the full***

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translation of adult genetic and genomic modalities into clinical practice. Expert chapter authors supplement foundational knowledge with case-based strategies for the evaluation and management of genetic disorders in each organ system and

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specialty area. Topics discussed include employing genetic testing technologies, reporting test results, genetic counseling for adult patients, medical genetics referrals, issues of complex inheritance, gene therapy, and diagnostic and treatment criteria

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for developmental, cardiovascular, gastrointestinal, neuropsychiatric, pulmonary issues, and much more. Employs clinical case studies to demonstrate how to evaluate, diagnosis and treat adult patients with genetic disorders Offers a

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***practical framework for
establishing an adult genetics
clinic, addressing infrastructure,
billing, counseling, and
challenges unique to adult
clinical genetics Features chapter
contributions from authors at
leading adult genetics***

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***institutions in the US and abroad
“Ridley leaps from chromosome
to chromosome in a handy
summation of our ever increasing
understanding of the roles that
genes play in disease, behavior,
sexual differences, and even
intelligence. . . . He addresses***

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not only the ethical quandaries faced by contemporary scientists but the reductionist danger in equating inheritability with inevitability.” — The New Yorker
The genome's been mapped. But what does it mean? Matt Ridley's Genome is the book that explains

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it all: what it is, how it works, and what it portends for the future
Arguably the most significant scientific discovery of the new century, the mapping of the twenty-three pairs of chromosomes that make up the human genome raises almost as

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many questions as it answers. Questions that will profoundly impact the way we think about disease, about longevity, and about free will. Questions that will affect the rest of your life. Genome offers extraordinary insight into the ramifications of

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this incredible breakthrough. By picking one newly discovered gene from each pair of chromosomes and telling its story, Matt Ridley recounts the history of our species and its ancestors from the dawn of life to the brink of future medicine.

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From Huntington's disease to cancer, from the applications of gene therapy to the horrors of eugenics, Ridley probes the scientific, philosophical, and moral issues arising as a result of the mapping of the genome. It will help you understand what

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this scientific milestone means for you, for your children, and for humankind.

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

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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

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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. A Microscale Approach to Organic Laboratory Techniques

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***Inside the Science of
Extraordinary Athletic
Performance
Concepts, Analysis, and Practice
Genetics (Paper)
A Molecular Approach
The Phylogenetic Handbook
This book explores***

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*critical principles and
new concepts in
bioengineering,
integrating the
biological, physical and
chemical laws and
principles that provide a*

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*foundation for the field.
Both biological and
engineering perspectives
are included, with key
topics such as the
physical-chemical
properties of cells,*

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*tissues and organs;
principles of molecules;
composition and interplay
in physiological
scenarios; and the complex
physiological functions of
heart, neuronal cells,*

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muscle cells and tissues.

*Chapters evaluate the
emerging fields of
nanotechnology, drug
delivery concepts,
biomaterials, and
regenerative therapy. The*

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leading individuals and events are introduced along with their critical research. Bioengineering: A Conceptual Approach is a valuable resource for professionals or

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researchers interested in understanding the central elements of bioengineering. Advanced-level students in biomedical engineering and computer science will also

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*find this book valuable as
a secondary textbook or
reference.*

*The latest edition of this
well-established,
accessible introduction to
neurophysiology succeeds*

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*in integrating the
disciplines of neurology
and neuroscience with an
emphasis on principles and
functional concepts. In
Neurophysiology: A
Conceptual Approach, Fifth*

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Edition, the authors deliver a refreshing alternative to "learning by rote," employing a Evolutionary genetics is the study of how genetic variation leads to

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evolutionary change. With the recent explosion in the availability of whole genome sequence data, vast quantities of genetic data are being generated at an ever-increasing pace with

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the result that programming has become an essential tool for researchers. Most importantly, a thorough understanding of evolutionary principles is

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*essential for making sense
of this genetic data. This
up-to-date textbook covers
all the major components
of modern evolutionary
genetics, carefully
explaining fundamental*

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*processes such as
mutation, natural
selection, genetic drift,
and speciation, together
with their consequences.
The book also draws on a
rich literature of*

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*exciting and inspiring
examples to demonstrate
the diversity of
evolutionary research,
including an emphasis on
how evolution and
selection has shaped our*

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*own species. Furthermore,
at the end of each
chapter, study questions
are provided to motivate
the reader to think and
reflect on the concepts
introduced. Practical*

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*experience is essential
when it comes to
developing an
understanding of how to
use genetic and genomic
data to analyze and
address interesting*

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questions in the life sciences and how to interpret results in meaningful ways. In addition to the main text, a series of online tutorials using the R

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language serves as an introduction to programming, statistics, and the analysis of evolutionary genetic data. The R environment stands out as an ideal all-

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purpose, open source platform to handle and analyze such data. The book and its online materials take full advantage of the authors' own experience in working

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*in a post-genomic
revolution world, and
introduce readers to the
plethora of molecular and
analytical methods that
have only recently become
available.*

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The New York Times
bestseller - with a new
afterword about early
specialization in youth
sports - from the author
of *Range: Why Generalists*
Triumph in a Specialized

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World. The debate is as old as physical competition. Are stars like Usain Bolt, Michael Phelps, and Serena Williams genetic freaks put on Earth to dominate

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*their respective sports?
Or are they simply normal
people who overcame their
biological limits through
sheer force of will and
obsessive training? In
this controversial and*

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engaging exploration of athletic success and the so-called 10,000-hour rule, David Epstein tackles the great nature vs. nurture debate and traces how far science has

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come in solving it.

Through on-the-ground reporting from below the equator and above the Arctic Circle, revealing conversations with leading scientists and Olympic

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champions, and interviews with athletes who have rare genetic mutations or physical traits, Epstein forces us to rethink the very nature of athleticism.

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*Introduction to Genetics:
A Molecular Approach
Genetics For Dummies
Understanding Disease
Genetics Using Genomic
Approaches
The Daily Show (The Book)*

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Neurophysiology

Genetics Solutions Manual

A broad, hands on guide with detailed explanations of current methodology, relevant exercises and popular software tools.

*This new brief version of Benjamin
Pierce's Genetics: A Conceptual*

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Approach, Second Edition, responds to a growing trend of focusing the introductory course on transmission and population genetics and covering molecular genetics separately. The book is comprised of following chapters and case studies from Pierce's complete text:

- 1. Introduction to Genetics 2.*

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Chromosomes and Cellular Reproduction

3. Basic Principles of Heredity 4. Sex

Determination and Sex-Linked

Characteristics 5. Extensions and

Modifications of Basic Principles 6.

Pedigree Analysis and Applications

INTEGRATIVE CASE STUDY

Phenylketonuria: Part I 7. Linkage,

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*Recombination, and Eukaryotic Gene
Mapping 8. Bacterial and Viral Genetic
Systems 9. Chromosome Variation
INTEGRATIVE CASE STUDY
Phenylketonuria: Part II 22. Quantitative
Genetics 23. Population Genetics and
Molecular Evolution INTEGRATIVE
CASE STUDY Phenylketonuria: Part III*

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Genetics today is inexorably focused on DNA. The theme of Introduction to Genetics: A Molecular Approach is therefore the progression from molecules (DNA and genes) to processes (gene expression and DNA replication) to systems (cells, organisms and populations). This progression reflects

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*both the basic logic of life and the way in
which modern biol*

Genetics A Conceptual Approach

Bioengineering

A Conceptual Approach, Fifth Edition

Phylogenomics

Genome

A Problems Approach

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Concepts of Genetics, Global Edition

An ethologist shows man to be a gene machine whose world is one of savage competition and deceit

Phylogenomics: A Primer,
Second Edition is for advanced

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undergraduate and graduate biology students studying molecular biology, comparative biology, evolution, genomics, and biodiversity. This book explains the essential concepts underlying the storage and

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manipulation of genomics level data, construction of phylogenetic trees, population genetics, natural selection, the tree of life, DNA barcoding, and metagenomics. The inclusion of problem-solving exercises in

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each chapter provides students with a solid grasp of the important molecular and evolutionary questions facing modern biologists as well as the tools needed to answer them. Pierce focuses on the important

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concepts and mechanics of genetics. He makes important connections between topics, provides advice and encouragement at difficult places, and describes the people, places, and experiments

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of genetics that make the subject interesting and alive.

Reflects the dynamic nature of modern genetics by emphasizing an experimental, inquiry-based approach. This text is useful for students who have had some

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background in biology and chemistry and who are interested in learning the central concepts of genetics.

Concepts of Biology
Handbook of Clinical Adult
Genetics and Genomics

Read Online Genetics
Conceptual Approach
Paperback

A Practice-Based Approach
Transmission and Population
Genetics

A Primer

The Sports Gene

***For all introductory genetics
courses. Concepts of Genetics***

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emphasises the fundamental ideas of genetics, while exploring modern techniques and applications of genetic analysis. This best-selling text continues to provide understandable explanations of complex, analytical topics and recognises the importance of

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teaching students how to become effective problem solvers. The 12th Edition has been extensively updated to provide comprehensive coverage of important, emerging topics such as CRISPR-Cas and the study of posttranscriptional gene regulation in eukaryotes. An

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