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*Genetics today is inexorably
focused on DNA. The theme
of Introduction to Genetics: A*

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Molecular Approach is therefore the progression from molecules (DNA and genes) to processes (gene expression and DNA replication) to systems (cells, organisms and populations).

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This progression reflects both the basic logic of life and the way in which modern biol

The author of Waiting for Aphrodite explains how humankind has been

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tinkering with genes for years before recent developments in genetic engineering, focusing on four key species created by humans--the domestic cat, corn, silkworms, and the

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apple. Reprint.

The Human Genome Project has been called a scientific "search for the Holy Grail" or the genetics equivalent of the moon race. Thousands of researchers worldwide are

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analyzing the details of human DNA, hoping to identify all of the tens of thousands of human genes that are the blueprint for the human body. Physicist and writer Tom Wilkie offers a

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lively, compelling history of this scientifically fascinating and politically contentious undertaking. Beginning with the discovery of DNA by James Watson and Francis Crick in 1953, Wilkie's

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*narrative unfolds with the
intrigue of a detective story.
He reviews in nontechnical
terms the many step-by-step
developments from different
scientific teams that finally
made it seem as if it would*

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be possible to sequence the human genome. He goes on to consider the potential social consequences, good and bad, of learning to manipulate the human genetic code. What will

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happen as we try to prevent and cure disease or attempt to "improve" ourselves and our children by genetic means? A most readable introduction to the science of genetics and the potential

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consequences of the Human Genome Project, Perilous Knowledge provides background for the startling headlines that quite possibly signal changes to all human life in the next century.

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"After decades of painstaking research, seemingly disparate paths into the sciences of molecular biology, chemistry, biology and genetics have converged.

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Suddenly the scientists realize that they are . . . at the peak of a mountain where all the surrounding landscape is clear to their view. They are confident now that they can tackle one of

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the biggest and most profound issues in their science: unravelling the message of human inheritance."--from the Preface The Human Genome Project has been called a

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He reviews in nontechnical terms the many step-by-step developments from different scientific teams that finally made it seem as if it would be possible to sequence the human genome. He goes on

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to consider the potential social consequences, good and bad, of learning to manipulate the human genetic code. What will happen as we try to prevent and cure disease or attempt

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"After decades of painstaking research,

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*seemingly disparate paths
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Suddenly the scientists
realize that they are . . . at*

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*the peak of a mountain
where all the surrounding
landscape is clear to their
view. They are confident now
that they can tackle one of
the biggest and most
profound issues in their*

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*science: unravelling the
message of human
inheritance."--from the
Preface*

*Over the past century, we
have made great strides in
reducing rates of disease*

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and enhancing people's general health. Public health measures such as sanitation, improved hygiene, and vaccines; reduced hazards in the workplace; new drugs and clinical procedures; and,

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more recently, a growing understanding of the human genome have each played a role in extending the duration and raising the quality of human life. But research conducted over the

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past few decades shows us that this progress, much of which was based on investigating one causative factor at a time—often, through a single discipline or by a narrow range of

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practitioners—can only go so far. Genes, Behavior, and the Social Environment examines a number of well-described gene-environment interactions, reviews the state of the science in

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researching such interactions, and recommends priorities not only for research itself but also for its workforce, resource, and infrastructural needs.

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*Modern Genetic Analysis
How Genotype and Gene
Interactions Affect Behavior
Are We Hardwired?
Genetics
Approaches to Assessing
Unintended Health Effects*

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Our Genes, Our Choices
Shrinking the Cat

***For most of human history,
paternity was uncertain. Blood
types, fingerprinting, and,
recently, DNA analysis promised
to solve the riddle of paternity.***

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But even genetic certainty did not end the quest for the father. Rather, as Nara Milanich reveals, it confirms the social, cultural, and political nature of the age-old question: Who's your father? Considered a classic in the field, Troy Duster's Backdoor to

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Eugenics was a groundbreaking book that grappled with the social and political implications of the new genetic technologies. Completely updated and revised, this work will be welcomed back into print as we struggle to understand the pros and cons of

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prenatal detection of birth defects; gene therapies; growth hormones; and substitute genetic answers to problems linked with such groups as Jews, Scandanavians, Native American, Arabs and African Americans. Duster's book has never been

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more timely.

**Books such as Richard Dawkins's
The Selfish Gene have aroused
fierce controversy by arguing for
the powerful influence of genes
on human behavior. But are we
entirely at the mercy of our
chromosomes? In Are We**

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Hardwired?, scientists William R. Clark and Michael Grunstein say the answer is both yes--and no. The power and fascination of Are We Hardwired? lie in their explanation of that deceptively simple answer. Using eye-opening examples of genetically

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identical twins who, though raised in different families, have had remarkably parallel lives, the authors show that indeed roughly half of human behavior can be accounted for by DNA. But the picture is quite complicated. Clark and Grunstein take us on a

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tour of modern genetics and behavioral science, revealing that few elements of behavior depend upon a single gene; complexes of genes, often across chromosomes, drive most of our heredity-based actions. To illustrate this point, they

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examine the genetic basis, and quirks, of individual behavioral traits--including aggression, sexuality, mental function, eating disorders, alcoholism, and drug abuse. They show that genes and environment are not opposing forces; heredity shapes how we

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interpret our surroundings, which in turn changes the very structure of our brain. Clearly we are not simply puppets of either influence. Perhaps most interesting, the book suggests that the source of our ability to choose, to act unexpectedly, may

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lie in the chaos principle: the most minute differences during activation of a single neuron may lead to utterly unpredictable actions. This masterful account of the nature-nurture controversy--at once provocative and informative--answers some

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***of our oldest questions in
unexpected new ways***

***This book is especially prepared
for the students of B.Sc. and
M.Sc. of different Indian
Universities as per UGC Model
Curriculum. Students, preparing
for Medical Entrance***

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Examination, IAS, IFS, and PCS etc. will also be benefited by this book. At the end of some chapters of Genetic Engineering may enlighten the target readers. Entirely new information on Quantitative Genetics and Immunogenetics may enthral the

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readers. MCQ's ans answers will also be helpful for the students to strngthen their self confidence. By the help of numerous figures, many tables, boxes and coloured photographs, this book has tried to serve a balanced account of Classical

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***Genetics and Modern Molecular
Genetics. • This book is for
Graduate, P.G. students of
Biophysics, Microbiology &
Biological Sciences.
Moving Beyond the
Nature/Nurture Debate
Introduction to Genetics: A***

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Molecular Approach

Genes, Language, and Evolution

Paternity

A User's Guide

Genetic Engineering and the

Future of Humanity

The Elusive Quest for the Father

The purpose of this manual is to

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provide an educational genetics resource for individuals, families, and health professionals in the New York - Mid-Atlantic region and increase awareness of specialty care in genetics. The manual

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begins with a basic introduction to genetics concepts, followed by a description of the different types and applications of genetic tests. It also provides information about diagnosis of genetic disease, family history,

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newborn screening, and genetic counseling. Resources are included to assist in patient care, patient and professional education, and identification of specialty genetics services within the New York - Mid-

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Atlantic region. At the end of each section, a list of references is provided for additional information.

Appendices can be copied for reference and offered to patients. These take-home

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resources are critical to helping both providers and patients understand some of the basic concepts and applications of genetics and genomics.

Very little excites human curiosity quite so much as

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contemplating human origins.
More than any other branch of
science, evolution - and human
evolution in particular - is
fraught with controversy.
Working from what is
essentially the same data,

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schools of opinion have come to diametrically opposed conclusions. Are we adapted Neanderthals, or a new species altogether which wiped them out? Did the first Americans enter the continent 30,000 or

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12,000 years ago? Did the Polynesians sail against wind and current to an unknown fate, or were they just blown across from South America while out fishing? Why do we speak different languages? Is it

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because language traces our biological history, or are the two things completely unrelated? Evolution, because it deals with a past that can never conclusively be known, was once ideal material for

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perpetual debate. Enter genetics with a completely new source of objective data. Surely these old questions would soon be settled one way or another. Or would they? Bryan Sykes brings together a world-class

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set of contributors to debate these questions. The result is eight lively essays, each of which offers a different opinion about what the links between genes, language, and the archaeological record can tell

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us about human evolution - and indeed, whether they can tell us anything conclusive at all. This stimulating and challenging book poses more questions than it offers answers, eschews jargon, and pursues

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controversy. Guaranteed to fascinate anyone who has ever wondered how the fossil record, the incredible diversity of human language, and our genetic inheritance might combine to give a glimpse of

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human origins. Edited by Bryan Sykes, Institute of Molecular Medicine, University of Oxford. Publisher's note.

As the population of older Americans grows, it is becoming more racially and

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ethnically diverse. Differences in health by racial and ethnic status could be increasingly consequential for health policy and programs. Such differences are are not simply a matter of education or ability to pay for

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health care. For instance, Asian Americans and Hispanics appear to be in better health, on a number of indicators, than White Americans, despite, on average, lower socioeconomic status. The reasons are

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complex, including possible roles for such factors as selective migration, risk behaviors, exposure to various stressors, patient attitudes, and geographic variation in health care. This volume, produced by

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a multidisciplinary panel, considers such possible explanations for racial and ethnic health differentials within an integrated framework. It provides a concise summary of available

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research and lays out a research agenda to address the many uncertainties in current knowledge. It recommends, for instance, looking at health differentials across the life course and deciphering the

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links between factors
presumably producing
differentials and
biopsychosocial mechanisms
that lead to impaired health.
In the small "Fly Room" at
Columbia University, T.H.

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Morgan and his students, A.H. Sturtevant, C.B. Bridges, and H.J. Muller, carried out the work that laid the foundations of modern, chromosomal genetics. The excitement of those times, when the whole

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field of genetics was being created, is captured in this book, written in 1965 by one of those present at the beginning. His account is one of the few authoritative, analytic works on the early history of genetics.

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This attractive reprint is accompanied by a website, <http://www.esp.org/books/sturt/history/> offering full-text versions of the key papers discussed in the book, including the world's first genetic map.

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Assessing Genetic Risks

She Has Her Mother's Laugh

Scientific Frontiers in

Developmental Toxicology and

Risk Assessment

Understanding Racial and

Ethnic Differences in Health in

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Late Life

The Double Helix

The Role of Genes in Human
Behavior

An Intimate History

With the advent of genetic
engineering and mapping of the

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human genome, public awareness concerning the contributions that genetic disorders make to illness or death has increased significantly. The fields of human and medical genetics have continued to expand and offer new ways of understanding, preventing, and

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managing patients with genetic disorders. At the core of the genetic approach are the ideas of anticipation and prevention, which are essential for modern medical practice. Clinical Genetics: A Short Course explains the importance of being able to anticipate disease

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based on individual characteristics or a family history, and then providing the necessary measures to forestall further complications. Each informative chapter commences with a case presentation and an explanation of medical terms. As the book

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progresses and new concepts are introduced, each case is updated. Clinical Genetics clarifies that, although individual genetic disease may be rare, it is an inescapable part of medicine. Text contains: *

- Both basic principles and differential diagnosis and

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management * Case-oriented problems, including answers and solutions * Over 300 illustrations to clarify clinical cases * Actual patient material * Glossary of genetic and medical terminology Clinical Genetics: A Short Course emphasizes clinical, rather than

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traditional human genetics, and is a vital resource for medical, clinical, and human geneticists, as well as other health care professionals. Modern Genetic Analysis, Second Edition, the second introductory genetics textbook W.H. Freeman has published by the Griffiths

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author team, implements an innovative approach to teaching genetics. Rather than presenting material in historical order, *Modern Genetic Analysis, Second Edition* integrates molecular genetics with classical genetics. The integrated approach provides students with a

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concrete foundation in molecules, while simultaneously building an understanding of the more abstract elements of transmission genetics. Modern Genetic Analysis, Second Edition also incorporates new pedagogy, improved chapter organization, enhanced art, and an

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appealing overall design.

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

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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[®]

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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.

This book helps readers to understand the analysis of genetic

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problems. Many students have a great deal of difficulty doing genetic analysis; this book emphasizes solutions, not just answers. The strategy is to provide the reader with the essential steps and the reasoning involved in conducting the analysis. Throughout the book,

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an attempt is made to present a balanced account of genetics. Topics center on Mendelian, cytogenetic, molecular, quantitative, and population genetics, with a few more specialized areas. Where relevant, the appropriate statistics necessary

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to make the analyses are provided.

A Personal Account of the
Discovery of the Structure of DNA
Genetics, 9th Edition (Multicolour
Edition)

Understanding Genetics

The Epigenetics Revolution

Genetics and the Uses of Human

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Heredity

Hacking Darwin

Genes, Behavior, and the Social
Environment

*Essentials of Genetics derived from
Klug and Cummings' highly
acclaimed Concepts of Genetics, 6/e*

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(2000), the authors capture students' interest with up-to-date coverage of cutting-edge topics and research. Essentials 3/E will help students connect the science of genetics to the issues of today through interesting and thought

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*provoking applications. Essentials
3/E presents a balanced coverage of
both classical and modern genetics.
Courses can be found in biology,
zoology, agriculture, and health
science.*

The #1 NEW YORK TIMES

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*Bestseller The basis for the PBS
Ken Burns Documentary The Gene:
An Intimate History Now includes
an excerpt from Siddhartha
Mukherjee's new book Song of the
Cell! From the Pulitzer
Prize-winning author of The*

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Emperor of All Maladies—a fascinating history of the gene and “a magisterial account of how human minds have laboriously, ingeniously picked apart what makes us tick” (Elle). “Sid Mukherjee has the uncanny ability

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*to bring together science, history,
and the future in a way that is
understandable and riveting,
guiding us through both time and
the mystery of life itself.” —Ken
Burns “Dr. Siddhartha Mukherjee
dazzled readers with his Pulitzer*

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*Prize-winning The Emperor of All
Maladies in 2010. That
achievement was evidently just a
warm-up for his virtuoso
performance in The Gene: An
Intimate History, in which he braids
science, history, and memoir into an*

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epic with all the range and biblical thunder of Paradise Lost” (The New York Times). In this biography Mukherjee brings to life the quest to understand human heredity and its surprising influence on our lives, personalities, identities, fates, and

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choices. “Mukherjee expresses abstract intellectual ideas through emotional stories...[and] swaddles his medical rigor with rhapsodic tenderness, surprising vulnerability, and occasional flashes of pure poetry” (The Washington Post).

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Throughout, the story of Mukherjee's own family—with its tragic and bewildering history of mental illness—reminds us of the questions that hang over our ability to translate the science of genetics from the laboratory to the real

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*world. In riveting and dramatic
prose, he describes the centuries of
research and
experimentation—from Aristotle
and Pythagoras to Mendel and
Darwin, from Boveri and Morgan
to Crick, Watson and Franklin, all*

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*the way through the revolutionary
twenty-first century innovators who
mapped the human genome. “A
fascinating and often sobering
history of how humans came to
understand the roles of genes in
making us who we are—and what*

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*our manipulation of those genes
might mean for our future”
(Milwaukee Journal-Sentinel), The
Gene is the revelatory and
magisterial history of a scientific
idea coming to life, the most crucial
science of our time, intimately*

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explained by a master. “The Gene is a book we all should read” (USA TODAY).

It has been recognized for almost 200 years that certain families seem to inherit cancer. It is only in the past decade, however, that

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molecular genetics and epidemiology have combined to define the role of inheritance in cancer more clearly, and to identify some of the genes involved. The causative genes can be tracked through cancer-prone families via

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genetic linkage and positional cloning. Several of the genes discovered have subsequently been proved to play critical roles in normal growth and development. There are also implications for the families themselves in terms of

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genetic testing with its attendant dilemmas, if it is not clear that useful action will result. The chapters in The Genetics of Cancer illustrate what has already been achieved and take a critical look at the future directions of this

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research and its potential clinical applications.

The CliffsStudySolver workbooks combine 20 percent review material with 80 percent practice problems (and the answers!) to help make your lessons stick.

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CliffsStudySolver Biology is for students who want to reinforce their knowledge with a learn-by-doing approach. Inside, you'll get the practice you need to master biology with problem-solving tools such as Clear, concise reviews of every topic

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Practice problems in every chapter—with explanations and solutions A diagnostic pretest to assess your current skills A full-length exam that adapts to your skill level Easy-to-understand tables and graphs, clear diagrams, and

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straightforward language can help you gain a solid foundation in biology and open the doors to more advanced knowledge. This workbook begins with the basics: the scientific method, microscopes and microscope measurements, the

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major life functions, cell structure, classification of biodiversity, and a chemistry review. You'll then dive into topics such as Plant biology: Structure and function of plants, leaves, stems, roots; photosynthesis Human biology: Nutrition and

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*digestion, circulation, respiration,
excretion, locomotion, regulation
Animal biology: Animal-like
protists; phyla Cnidaria, Annelida,
and Arthropoda Reproduction:
Organisms, plants, and human
Mendelian Genetics; Patterns of*

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*Inheritance; Modern Genetics
Evolution: Fossils, comparative
anatomy and biochemistry, The
hardy-Weinberg Law Ecology:
Abiotic and biotic factors, energy
flow, material cycles, biomes,
environmental protection Practice*

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makes perfect—and whether you're taking lessons or teaching yourself, CliffsStudySolver guides can help you make the grade. Author Max Rechtman taught high school biology in the New York City public school system for 34 years before

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retiring in 2003. He was a teacher mentor and holds a New York State certificate in school administration and supervision.

Implications for Health and Social Policy

Genetic Engineering Before We

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Knew about Genes

Genetics and Evolution of

Infectious Diseases

Backdoor to Eugenics

Integrating Genes and Genomes

The Human Genome

Vogel and Motulsky's Human

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Genetics

Genetics and Evolution of Infectious Diseases, Second Edition, discusses the constantly evolving field of infectious diseases and their continued impact on the

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health of populations, especially in resource-limited areas of the world. Students in public health, biomedical professionals, clinicians, public health practitioners, and decisions-makers will

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find valuable information in this book that is relevant to the control and prevention of neglected and emerging worldwide diseases that are a major cause of global morbidity, disability, and

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mortality. Although substantial gains have been made in public health interventions for the treatment, prevention, and control of infectious diseases during the last century, in

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recent decades the world has witnessed a worldwide human immunodeficiency virus (HIV) pandemic, increasing antimicrobial resistance, and the emergence of many new

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bacterial, fungal, parasitic, and viral pathogens. The economic, social, and political burden of infectious diseases is most evident in developing countries which must confront the dual

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burden of death and disability due to infectious and chronic illnesses. Takes an integrated approach to infectious diseases Includes contributions from leading authorities Provides the

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latest developments in the field of infectious disease
A pioneering proposal for a pluralistic extension of evolutionary theory, now updated to reflect the most recent research. This new

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edition of the widely read
Evolution in Four Dimensions
has been revised to reflect
the spate of new discoveries
in biology since the book was
first published in 2005,
offering corrections, an

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updated bibliography, and a substantial new chapter. Eva Jablonka and Marion Lamb's pioneering argument proposes that there is more to heredity than genes. They describe four "dimensions"

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in heredity—four inheritance systems that play a role in evolution: genetic, epigenetic (or non-DNA cellular transmission of traits), behavioral, and symbolic (transmission

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through language and other forms of symbolic communication). These systems, they argue, can all provide variations on which natural selection can act. Jablonka and Lamb present a

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richer, more complex view of evolution than that offered by the gene-based Modern Synthesis, arguing that induced and acquired changes also play a role. Their lucid and accessible

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text is accompanied by artist-physician Anna Zeligowski's lively drawings, which humorously and effectively illustrate the authors' points. Each chapter ends with a dialogue in which the

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authors refine their arguments against the vigorous skepticism of the fictional "I.M." (for Ipcha Mistabra—Aramaic for "the opposite conjecture"). The extensive new chapter,

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presented engagingly as a dialogue with I.M., updates the information on each of the four dimensions—with special attention to the epigenetic, where there has been an explosion of new

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research. Praise for the first edition "With courage and verve, and in a style accessible to general readers, Jablonka and Lamb lay out some of the exciting new pathways of Darwinian

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evolution that have been uncovered by contemporary research." —Evelyn Fox Keller, MIT, author of *Making Sense of Life: Explaining Biological Development with Models, Metaphors, and*

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Machines "In their beautifully written and impressively argued new book, Jablonka and Lamb show that the evidence from more than fifty years of molecular, behavioral and linguistic

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studies forces us to reevaluate our inherited understanding of evolution.”
—Oren Harman, *The New Republic* “It is not only an enjoyable read, replete with ideas and facts of interest

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but it does the most valuable thing a book can do—it makes you think and reexamine your premises and long-held conclusions.”
—Adam Wilkins, *BioEssays*
Scientific Frontiers in

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Developmental Toxicology and Risk Assessment reviews advances made during the last 10-15 years in fields such as developmental biology, molecular biology, and genetics. It describes a

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novel approach for how these advances might be used in combination with existing methodologies to further the understanding of mechanisms of developmental toxicity, to

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improve the assessment of chemicals for their ability to cause developmental toxicity, and to improve risk assessment for developmental defects. For example, based on the

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recent advances, even the smallest, simplest laboratory animals such as the fruit fly, roundworm, and zebrafish might be able to serve as developmental toxicological models for human biological

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systems. Use of such organisms might allow for rapid and inexpensive testing of large numbers of chemicals for their potential to cause developmental toxicity; presently, there are

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little or no developmental toxicity data available for the majority of natural and manufactured chemicals in use. This new approach to developmental toxicology and risk assessment will

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require simultaneous research on several fronts by experts from multiple scientific disciplines, including developmental toxicologists, developmental biologists, geneticists,

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epidemiologists, and
biostatisticians.

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"Extraordinary"—New York
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"Magisterial"—The Atlantic

"Engrossing"—Wired

"Leading contender as the
most outstanding nonfiction

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work of the
year"—Minneapolis Star-
Tribune Celebrated New York
Times columnist and science
writer Carl Zimmer presents
a profoundly original
perspective on what we pass

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along from generation to generation. Charles Darwin played a crucial part in turning heredity into a scientific question, and yet he failed spectacularly to answer it. The birth of

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genetics in the early 1900s seemed to do precisely that. Gradually, people translated their old notions about heredity into a language of genes. As the technology for studying genes became

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cheaper, millions of people ordered genetic tests to link themselves to missing parents, to distant ancestors, to ethnic identities... But, Zimmer writes, "Each of us carries an amalgam of

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fragments of DNA, stitched together from some of our many ancestors. Each piece has its own ancestry, traveling a different path back through human history. A particular fragment may

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sometimes be cause for worry, but most of our DNA influences who we are—our appearance, our height, our penchants—in inconceivably subtle ways.” Heredity isn't just about genes that pass

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from parent to child.

Heredity continues within our own bodies, as a single cell gives rise to trillions of cells that make up our bodies. We say we inherit genes from our

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ancestors—using a word that once referred to kingdoms and estates—but we inherit other things that matter as much or more to our lives, from microbes to technologies we use to make

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life more comfortable. We need a new definition of what heredity is and, through Carl Zimmer's lucid exposition and storytelling, this resounding tour de force delivers it. Weaving historical

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and current scientific research, his own experience with his two daughters, and the kind of original reporting expected of one of the world's best science journalists, Zimmer

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ultimately unpacks urgent bioethical quandaries arising from new biomedical technologies, but also long-standing presumptions about who we really are and what we can pass on to future

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generations.

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Genetics

Experiences and Prospects

Biology Problem Solver

Safety of Genetically

Engineered Foods

Genetically engineered (GE)

crops were first introduced

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commercially in the 1990s. After two decades of production, some groups and individuals remain critical of the technology based on their concerns about possible adverse effects on human health, the environment, and

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ethical considerations. At the same time, others are concerned that the technology is not reaching its potential to improve human health and the environment because of stringent regulations and

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reduced public funding to develop products offering more benefits to society. While the debate about these and other questions related to the genetic engineering techniques of the first 20 years goes on, emerging

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genetic-engineering technologies are adding new complexities to the conversation. Genetically Engineered Crops builds on previous related Academies reports published between 1987 and 2010 by undertaking a

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retrospective examination of the purported positive and adverse effects of GE crops and to anticipate what emerging genetic-engineering technologies hold for the future. This report indicates where there are uncertainties

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about the economic, agronomic, health, safety, or other impacts of GE crops and food, and makes recommendations to fill gaps in safety assessments, increase regulatory clarity, and improve innovations in and

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access to GE technology.

The Human Genome: A User's Guide conveys both the essence and the excitement of modern human genetics. Incorporating all of researchers' latest discoveries, the authors ground

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their work in the discussion of a major function of the human gene: that of sex determination and development. This focus opens the discussion to the interactions between science and society. Hawley and Mori

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take care to examine the process of genetic analysis and to explore relevant topics such as the genetics of cancer, behavior and personality, AIDS, mental illness, cloning, and gene therapy. The reader gains

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sophisticated insight into human heredity, beyond the misconceptions of folklore.

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Mutation the name of one of
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Genetics" to explain the important concepts of classical and modern genetics--it's not only educational, it's funny too! "A gifted and thoughtful writer, Metzl brings us to the frontiers of biology and technology, and

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revolution, our DNA is becoming as readable, writable, and hackable as our information technology. But as humanity starts retooling our own genetic code, the choices we make today will be the difference

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The Human Genome Project and Its Implications

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Bacterial Nutrition Bacterial
Reproduction Bacterial Genetics
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Effects of Bacteria Viral
Morphology and Characteristics*

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*Learning and Conditioning
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Behavior Short Answer Questions
for Review Index WHAT THIS BOOK
IS FOR Students have generally
found biology a difficult subject to
understand and learn. Despite the*

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publication of hundreds of textbooks in this field, each one intended to provide an improvement over previous textbooks, students of biology continue to remain perplexed as a result of numerous subject areas

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that must be remembered and correlated when solving problems. Various interpretations of biology terms also contribute to the difficulties of mastering the subject. In a study of biology, REA found the following basic reasons

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underlying the inherent difficulties of biology: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous different conditions and

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principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number of additional steps, making this task

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more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages written by a biologist who has insight into the subject matter

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not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application. Explanations then are often not sufficiently detailed or extensive enough to make the

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reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations of principles and their applications are usually not discussed, and it is left to the reader to discover this

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while doing exercises. Accordingly, the average student is expected to rediscover that which has long been established and practiced, but not always published or adequately explained. The examples typically following the

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explanation of a topic are too few in number and too simple to enable the student to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for

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homework or given on examinations. Poorly solved examples such as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the

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reader to figure out the missing information. This leaves the reader with an impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are

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often worded in a confusing or obscure way. They might not state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion -

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never revealing how or what is to be solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens

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understanding by simplifying and organizing biology processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their

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different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to biology than to other subjects, because they are uncertain with regard to the

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selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible to solve problems easily.

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Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When reviewing the exercises in

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classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a manner that holds the interest of the class, and enables

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the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with copying the material off the boards to follow the professor's explanations. This book is

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intended to aid students in biology overcome the difficulties described by supplying detailed illustrations of the solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected

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from those most often assigned for class work and given on examinations. The problems are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in

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sequence. The problems are illustrated with detailed, step-by-step explanations, to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in

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textbooks or review/outline books. The staff of REA considers biology a subject that is best learned by allowing students to view the methods of analysis and solution techniques. This learning approach is similar to that practiced in

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various scientific laboratories, particularly in the medical fields. In using this book, students may review and study the illustrated problems at their own pace; students are not limited to the time such problems receive in the

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classroom. When students want to look up a particular type of problem and solution, they can readily locate it in the book by referring to the index that has been extensively prepared. It is also possible to locate a particular

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type of problem by glancing at just the material within the boxed portions. Each problem is numbered and surrounded by a heavy black border for speedy identification.

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treatment and prevention, but also the specter of discrimination and "designer genes," genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly

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evolving field, offering principles for actions and research and recommendations on key issues in genetic testing and screening.

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knowledge: availability of treatment, privacy and discrimination, personal decisionmaking, public health objectives, cost, and more. Among the important issues covered: Quality control in genetic testing.

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Appropriate roles for public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in insurance, employment, and other

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recent manifestation within the field of genetic engineering. It is rich in narrative, anecdote, attention to human detail, and stories of competition among scientists who have dominated the field.

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Epigenetics can potentially revolutionize our understanding of the structure and behavior of biological life on Earth. It explains why mapping an organism's genetic code is not enough to determine how it develops or acts

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always female; why some plants need cold weather before they can flower; and how our bodies age and develop disease. Reaching beyond biology, epigenetics now informs work on drug addiction, the long-term effects of famine,

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and the physical and psychological consequences of childhood trauma. Carey concludes with a discussion of the future directions for this research and its ability to improve human health and well-being.

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Problems and Approaches
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A Troublesome Inheritance
In the Name of Eugenics*

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Nobel Prize. At the time, Watson was only twenty-four, a young scientist hungry to make his mark. His uncompromisingly honest account of the heady days of their thrilling sprint against other world-class researchers to solve one of

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science's greatest mysteries gives a dazzlingly clear picture of a world of brilliant scientists with great gifts, very human ambitions, and bitter rivalries. With humility unspoiled by false modesty, Watson relates his and Crick's desperate efforts to

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beat Linus Pauling to the Holy Grail of life sciences, the identification of the basic building block of life.

Never has a scientist been so truthful in capturing in words the flavor of his work.

An ethologist shows man to be a

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gene machine whose world is one
of savage competition and deceit

The Selfish Gene

How Modern Biology Is Rewriting
Our Understanding of Genetics,
Disease, and Inheritance

The Genetics of Cancer

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Experiments in Plant-hybridisation

A History of Genetics

The Human Inheritance

The Gene

Our Genes, Our Choices: How

Genotype and Gene Interactions Affect

Behavior - First Prize winner of the

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*2013 BMA Medical Book Award for
Basic and Clinical Sciences - explains
how the complexity of human behavior,
including concepts of free will, derives
from a relatively small number of
genes, which direct
neurodevelopmental sequence. Are*

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people free to make choices, or do genes determine behavior?

Paradoxically, the answer to both questions is "yes," because of neurogenetic individuality, a new theory with profound implications.

Author David Goldman uses judicial,

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political, medical, and ethical examples to illustrate that this lifelong process is guided by individual genotype, molecular and physiologic principles, as well as by randomness and environmental exposures, a combination of factors that we choose

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and do not choose. Written in an authoritative yet accessible style, the book includes practical descriptions of the function of DNA, discusses the scientific and historical bases of genetics, and introduces topics of epigenetics and the predictive power of

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behavioral genetics. First Prize winner of the 2013 BMA Medical Book Award for Basic and Clinical Sciences Poses and resolves challenges to moral responsibility raised by modern genetics and neuroscience Analyzes the neurogenetic origins of human

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behavior and free will Written by one of the world's most influential neurogeneticists, founder of the Laboratory of Neurogenetics at the National Institutes of Health Drawing on startling new evidence from the mapping of the genome, an

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explosive new account of the genetic basis of race and its role in the human story Fewer ideas have been more toxic or harmful than the idea of the biological reality of race, and with it the idea that humans of different races are biologically different from one

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another. For this understandable reason, the idea has been banished from polite academic conversation. Arguing that race is more than just a social construct can get a scholar run out of town, or at least off campus, on a rail. Human evolution, the consensus

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view insists, ended in prehistory. Inconveniently, as Nicholas Wade argues in A Troublesome Inheritance, the consensus view cannot be right. And in fact, we know that populations have changed in the past few thousand years—to be lactose tolerant, for

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example, and to survive at high altitudes. Race is not a bright-line distinction; by definition it means that the more human populations are kept apart, the more they evolve their own distinct traits under the selective pressure known as Darwinian

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evolution. For many thousands of years, most human populations stayed where they were and grew distinct, not just in outward appearance but in deeper senses as well. Wade, the longtime journalist covering genetic advances for The New York Times,

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draws widely on the work of scientists who have made crucial breakthroughs in establishing the reality of recent human evolution. The most provocative claims in this book involve the genetic basis of human social habits. What we might call middle-class social

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traits—thrift, docility, nonviolence—have been slowly but surely inculcated genetically within agrarian societies, Wade argues. These “values” obviously had a strong cultural component, but Wade points to evidence that agrarian societies

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evolved away from hunter-gatherer societies in some crucial respects. Also controversial are his findings regarding the genetic basis of traits we associate with intelligence, such as literacy and numeracy, in certain ethnic populations, including the

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Chinese and Ashkenazi Jews. Wade believes deeply in the fundamental equality of all human peoples. He also believes that science is best served by pursuing the truth without fear, and if his mission to arrive at a coherent summa of what the new genetic science

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does and does not tell us about race and human history leads straight into a minefield, then so be it. This will not be the last word on the subject, but it will begin a powerful and overdue conversation.

Inside of every plant, animal, and

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human lies thousands of genes. These genes, and the DNA they are composed of, are the basis for heredity. Before we are born, the information encoded in our genes determines our physical features, predisposition to disease, and more. Genetics traces our

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understanding of heredity from the discovery of inheritance to modern day, as scientists seek to manipulate genes in order to control the blueprints of life. Topics in this book include genetically modified food, epigenetics, stem cells, and xenobiology. Readers

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are given balanced information about these controversial topics and encouraged to think critically to form their own opinions.

The Powers, Perversions, and Potential of Heredity

Genes, Race and Human History