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Francis Crick—the quiet genius who led a

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revolution in biology by discovering, quite literally, the secret of life—will be bracketed with Galileo, Darwin, and Einstein as one of the greatest scientists of all time. In his fascinating biography of the scientific pioneer who uncovered the genetic code—the digital cipher at the heart of heredity that distinguishes living

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from non-living things—acclaimed bestselling science writer Matt Ridley traces Crick's life from middle-class mediocrity in the English Midlands through a lackluster education and six years designing magnetic mines for the Royal Navy to his leap into biology at the age of thirty-one and its astonishing

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consequences. In the process, Ridley sheds a brilliant light on the man who forever changed our world and how we understand it.

Details the history of the study of genetics, from Mendel's discoveries to the decoding of the human genome, and explains the fundamentals of genetics, the function of

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genes, and DNA manipulation.

A provocative and timely case for how the science of genetics can help create a more just and equal society In recent years, scientists like Kathryn Paige Harden have shown that DNA makes us different, in our personalities and in our health—and in ways that matter for educational and

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economic success in our current society. In *The Genetic Lottery*, Harden introduces readers to the latest genetic science, dismantling dangerous ideas about racial superiority and challenging us to grapple with what equality really means in a world where people are born different. Weaving together personal stories with scientific

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evidence, Harden shows why our refusal to recognize the power of DNA perpetuates the myth of meritocracy, and argues that we must acknowledge the role of genetic luck if we are ever to create a fair society. Reclaiming genetic science from the legacy of eugenics, this groundbreaking book offers a bold new vision of society where

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everyone thrives, regardless of how one fares in the genetic lottery.

Cracking the Genetic Code of Life

What is Life? the Physical Aspect of the Living Cell & Mind and Matter

The Genetic Lottery

Public Debates about Human Heredity

Key to Living Organisms



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The Gene

Monohybrid inheritance; Cytological bases of inheritance; Dihybrid inheritance; Probability and goodness of fit; Linkage, crossing-over, and genetic mapping of chromosomes; Multiple alleles,

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pseudoalleles, and blood group inheritance; Polygenic inheritance; Statistical concepts and tools; Sex determination; Inheritance related to sex; Chromosomal aberrations; Population genetics; The identification of the genetic material;

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Protein synthesis; The genetic code;  
Molecular structure of the gene;  
Regulation of gene action; The  
question of cytoplasmic genetic  
systems; Genetics; Problems and  
promise; Answers to problems;  
Selected life cycles; The biologically

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important amino acids; Useful formulas; Ratios and statistics; Useful metric values.

Building on a range of disciplines – from biology and anthropology to philosophy and linguistics – this book draws on the expertise of

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leading names in the study of organic, mental and cultural codes brought together by the emerging discipline of biosemiotics. The volume represents the first multi-authored attempt to deal with the range of codes relevant to life, and to

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reveal the ubiquitous role of coding mechanisms in both organic and mental evolution.

Describes the ten-year, multimillion dollar Human Genome Project and its process of gene mapping; includes concerns of critics of the project.

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reinforcement guide

The Science of Genetics

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GENETICS

Understanding Genetics

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Growing old is a must as aging is part of life itself. However, there are ways dictated by our genetic code (our heredity) and in the life style we choose, that can either speed up or decelerate this process. This book will give you practical advise and



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inform you about the pros and cons of what your parents left you in terms of genes. Also, the book provides you with adequate ways to benefit from that information to help you age more gracefully, and at the same time enjoy your life.

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Why do children resemble their parents and siblings? Introducing young readers to the fascinating world of genetics, this educational resource presents the main concepts of the science, including what a chromosome does, how DNA is

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structured, and how genetic inheritance works. Students learn about new discoveries in the field of genetics and how those discoveries have helped to cure or even prevent certain diseases, as well as examine controversial issues in genetics such

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as genetically modified foods and stem cell research. Combining inquiry-based, age-appropriate activities with biology, Genetics: Breaking the Code of Your DNA features graphic novel illustrations, fascinating sidebars, and a glossary

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of important vocabulary to illuminate the complex world of genetics and bring it to life. Projects include building 3D DNA double helix models, extracting DNA, using a Punnet Square to predict an offspring's probability of

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inheritance, and evaluating the benefits and risks of genetically engineering a new species.

Additional materials include a list of current reference works, websites, and Internet resources. Genetics meets common core state standards

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in language arts for reading  
informational text and literary  
nonfiction and is aligned with Next  
Generation Science Standards.  
Guided Reading Levels and Lexile  
measurements indicate grade level  
and text complexity.

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The purpose of this manual is to 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 begins with



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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, newborn screening, and

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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-Atlantic region. At the end of each section, a list of

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references is provided for additional information. Appendices can be copied for reference and offered to patients. These take-home resources are critical to helping both providers and patients understand some of the basic concepts and applications of

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genetics and genomics.

The Rules of Macroevoolution

Francis Crick

What's in Your Genes?

An Intimate History

Genetics (Revised Edition)

Investigating the Nature of Life in

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## the Age of Synthetic Biology

The purpose of this book is to bring to interested readers (professionals and laypersons alike) an appreciation and a basic understanding of what the genetic code is and why it has come to revolutionize thinking about living systems as a whole. The

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consequences of this revolution in molecular biology are so vast as to be almost incomprehensible. It seems important in a democratic society to have a citizenry well informed about the crucial issues of the day, such as genetic engineering and molecular medicine, which impact the social

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order and the ethos of society in such a profound way. This book discusses concisely the genetic code ? what it is and how it provides the key to molecular biology. The structures of DNA (as revealed by Watson and Crick) and of the various forms of RNA are described in some detail, and it is

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shown how these structures are marvellously adapted to the twin problems of inheritance of traits and faithful development of individual organisms. In this latter respect, the role of proteins as the ?molecules of life? is described and the central dogma of molecular biology



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(information flows from DNA to RNA to protein) elaborated. In addition, theories of the origin and development of the universal genetic code are reviewed briefly, and a perspective concerning the impact of molecular biology on the social ethos is presented.

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A crash course in genetics! Everyone knows that if you come from a family of brunettes, you're likely to be born with brown hair. But did you know your hair color may also affect how often you get sunburned? Or how often you need to take vitamin supplements? *What's in Your Genes?* goes beyond

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Gregor Mendel and  
dominant/recessive genes to show you  
all the ins and outs of what determines  
your DNA. Each entry provides you  
with a sneak peek into your DNA  
sequence and teaches you exactly  
how your body is able to create that  
wonderful you-ness that no one else

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has. From your tastebuds to your eye color to your obsession with clinical-strength deodorants, this book not only guides you through the history and study of genetics, but also shows you how those four little letters in your DNA make you who you are.

Complete with imaginative illustrations,

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What's in Your Genes? reveals all there is to know about heredity--like the science behind vibrant red hair, perfect teeth, and your ability to see in color.

Discusses chemical codes found in cells, their effects on the genes, and the role genes play in heredity.

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Life's Greatest Secret

A Personal Account of the Discovery  
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Evolution in Four Dimensions, revised  
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The Code of Life : Test Book

The Code of Life. Laboratory manual,

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annotated teacher's edition

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***One of the first breakthroughs came from Gregor Mendel, a nineteenth-century monk who spent eight years breeding thousands of pea plants. Pea plants might seem pretty different from dogs, but on a microscopic level, they have a surprising amount in common.***



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***Genetic pioneers of the twentieth century unlocked the secrets of DNA, the molecule that holds heredity information for all life-forms. This book tells the story of how scientists cracked the code of life and revolutionized molecular biology.***

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***The classic personal account of  
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now with an introduction by Sylvia  
Nasar, author of A Beautiful Mind.  
By identifying the structure of DNA,  
the molecule of life, Francis Crick  
and James Watson revolutionized***

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***biochemistry and won themselves a 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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***Genetic Code Stanford University  
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***The Double Helix***

***The Meanings of the Gene***

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'[A]n excellent, brisk guide to what is likely to happen as opposed to the fantastically remote.' - Los Angeles Review of Books  
In 2018 the world woke up to gene editing with a storm of controversy over twin girls born in

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China with genetic changes deliberately introduced by scientists – changes they will pass on to their own offspring. Genetic modification (GM) has been with us for 45 years now, but the new system known as CRISPR or gene editing can manipulate the genes



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of almost any organism with a degree of precision, ease and speed that we could only dream of ten years ago. But is it ethical to change the genetic material of organisms in a way that might be passed on to future generations? If a person is suffering

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from a lethal genetic disease, is it unethical to deny them this option? Who controls the application of this technology, when it makes 'biohacking' – perhaps of one's own genome – a real possibility? Nessa Carey's book is a thrilling and timely

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snapshot of a cutting-edge technology that will radically alter our futures and the way we prevent disease. 'A focused snapshot of a brave new world.' -

Nature 'A brisk, accessible primer on the fast-moving field, a clear-eyed look at a technology that is already driving

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major scientific advances - and raising complex ethical questions.' - Emily Anthes, Undark

The Meanings of the Gene is a compelling look at societal hopes and fears about genetics in the course of the twentieth century. The work of

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scientists and doctors in advancing genetic research and its applications has been accompanied by plenty of discussion in the popular press—from Good Housekeeping and Forbes to Ms. and the Congressional Record—about such topics as eugenics, sterilization,

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DNA, genetic counseling, and sex selection. By demonstrating the role of rhetoric and ideology in public discussions about genetics, Condit raises the controversial question, Who shapes decisions about genetic research and its consequences for

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humans—scientists, or the public?  
Analyzing hundreds of stories from  
American magazines—and, later,  
television news—from the 1910s to the  
1990s, Condit identifies three central  
and enduring public worries about  
genetics: that genes are deterministic

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arbiters of human fate; that genetics research can be used for discriminatory ends; and that advances in genetics encourage perfectionistic thinking about our children. Other key public concerns that Condit highlights are the complexity of genetic decision-



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making and potential for invasion of privacy; conflict over the human genetic code and experimentation with DNA; and family genetics and reproductive decisions. Her analysis reveals a persistent debate in the popular media between themes of

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genetic determinism (such as eugenics) and more egalitarian views that place genes within the complexity of biological and social life. The Meanings of the Gene offers an insightful view of our continuing efforts to grapple with our biological natures

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and to define what it means, and will mean in the future, to be human.

This is a detailed history of one of the most important and dramatic episodes in modern science, recounted from the novel vantage point of the dawn of the information age and its impact on

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representations of nature, heredity, and society. Drawing on archives, published sources, and interviews, the author situates work on the genetic code (1953-70) within the history of life science, the rise of communication technosciences (cybernetics,

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information theory, and computers), the intersection of molecular biology with cryptanalysis and linguistics, and the social history of postwar Europe and the United States. Kay draws out the historical specificity in the process by which the central biological

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problem of DNA-based protein synthesis came to be metaphorically represented as an information code and a writing technology—and consequently as a “book of life.” This molecular writing and reading is part of the cultural production of the

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Nuclear Age, its power amplified by the centuries-old theistic resonance of the “book of life” metaphor. Yet, as the author points out, these are just metaphors: analogies, not ontologies. Necessary and productive as they have been, they have their epistemological

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limitations. Deploying analyses of language, cryptology, and information theory, the author persuasively argues that, technically speaking, the genetic code is not a code, DNA is not a language, and the genome is not an information system (objections voiced



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by experts as early as the 1950s). Thus her historical reconstruction and analyses also serve as a critique of the new genomic biopower. Genomic textuality has become a fact of life, a metaphor literalized, she claims, as human genome projects promise new

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levels of control over life through the meta-level of information: control of the word (the DNA sequences) and its editing and rewriting. But the author shows how the humbling limits of these scriptural metaphors also pose a challenge to the textual and material

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mastery of the genomic "book of life."

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A New York, Mid-Atlantic Guide for  
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Exploring Heredity

The Code of Life

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*Children are often familiar with the idea of heredity from the first time a friend or relative points out they look like a sibling or parent. This book will help kids understand why animals' offspring look like their parents, as well as why they may share traits*

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*with their parents and other family members. The science behind heredity is explained in simple, age-appropriate text, while graphic organizers help to show how genes and heredity work.*

*In 1944, the Nobel Prize-winning physicist Erwin Schrödinger published*

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*a groundbreaking little book called  
What Is Life? In fewer than one  
hundred pages, he argued that life  
was not a mysterious or inexplicable  
phenomenon, as many people  
believed, but a scientific process like  
any other, ultimately explainable by  
the laws of physics and chemistry.*

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*Today, more than sixty years later, members of a new generation of scientists are attempting to create life from the ground up. Science has moved forward in leaps and bounds since Schrödinger's time, but our understanding of what does and does not constitute life has only grown*

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*more complex. An era that has already seen computer chip-implanted human brains, genetically engineered organisms, genetically modified foods, cloned mammals, and brain-dead humans kept "alive" by machines is one that demands fresh thinking about the*



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*concept of life. While a segment of our national debate remains stubbornly mired in moral quandaries over abortion, euthanasia, and other "right to life" issues, the science writer Ed Regis demonstrates how science can and does provide us with a detailed understanding of the*

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*nature of life. Written in a lively and accessible style, and synthesizing a wide range of contemporary research, What Is Life? is a brief and illuminating contribution to an age-old debate.*

*The #1 NEW YORK TIMES Bestseller  
The basis for the PBS Ken Burns*

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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 Emperor of All Maladies*—a fascinating history of the gene and “a magisterial account of how human minds have

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*laboriously, ingeniously picked apart what makes us tick” (Elle). “Sid Mukherjee has the uncanny ability 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.*

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*Siddhartha Mukherjee dazzled readers with his Pulitzer 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 choices. “Mukherjee expresses*

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*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). Throughout, the story of Mukherjee’s own family—with its tragic and*

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*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 world. In riveting and dramatic prose, he describes the centuries of research and experimentation—from Aristotle*



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*of genes in making us who we are—and what 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  
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*The Codes of Life*

*BREAKING THE CODE OF YOUR DNA*

*Everyone has heard of  
the story of DNA as the  
story of Watson and  
Crick and Rosalind  
Franklin, but knowing*

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*the structure of DNA was  
only a part of a greater  
struggle to understand  
life's secrets. Life's  
Greatest Secret is the  
story of the discovery  
and cracking of the*

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*genetic code, the thing  
that ultimately enables  
a spiraling molecule to  
give rise to the life  
that exists all around  
us. This great  
scientific breakthrough*

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*has had farreaching  
consequences for how we  
understand ourselves and  
our place in the natural  
world, and for how we  
might take control of  
our (and life's) future.*

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*Life's Greatest Secret*  
*mixes remarkable*  
*insights, theoretical*  
*dead-ends, and ingenious*  
*experiments with the*  
*swift pace of a*  
*thriller. From New York*



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*to Paris, Cambridge,  
Massachusetts, to  
Cambridge, England, and  
London to Moscow, the  
greatest discovery of  
twentieth-century  
biology was truly a*

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*global feat. Biologist  
and historian of science  
Matthew Cobb gives the  
full and rich account of  
the cooperation and  
competition between the  
eccentric characters—mat*

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*hematologists, physicists,  
information theorists,  
and biologists—who  
contributed to this  
revolutionary new  
science. And, while  
every new discovery was*

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*a leap forward for  
science, Cobb shows how  
every new answer  
inevitably led to new  
questions that were at  
least as difficult to  
answer: just ask anyone*

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*who had hoped that the  
successful completion of  
the Human Genome Project  
was going to truly yield  
the book of life, or  
that a better  
understanding of*

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*epigenetics* or “*junk DNA*” was going to be the *final piece of the puzzle. But the setbacks and unexpected discoveries are what make the science*

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*exciting, and it is  
Matthew Cobb's telling  
that makes them worth  
reading. This is a  
riveting story of humans  
exploring what it is  
that makes us human and*

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*how the world works, and  
it is essential reading  
for anyone who'd like to  
explore those questions  
for themselves.*

*This title presents the  
history of genetics.*



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*Vivid text details how early studies of heredity and genes led to our modern understanding of how DNA works. It also puts a spotlight on the*

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*brilliant scientists who  
made these advances  
possible. Useful  
sidebars, rich images,  
and a glossary help  
readers understand the  
science and its*

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aid in the comprehension  
of this complex subject.  
Each technique described  
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explained within its  
conceptual framework to*

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*enhance understanding.*

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covers the principles of  
molecular biology  
including the basic  
knowledge of nucleic  
acids, proteins, and*

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*genomes as well as the  
basic techniques and  
instrumentations that  
are often used in the  
field of molecular  
biology with detailed  
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describe four “dimensions” in heredity—four inheritance systems that play a role in evolution: genetic, epigenetic (or non-DNA cellular transmission of traits), behavioral, and



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

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Jablonka and Lamb present a 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.

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

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dialogue in which the authors refine their arguments against the vigorous skepticism of the fictional "I.M." (for Ipcha Mistabra—Aramaic for "the opposite conjecture"). The

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