

Did My Genes Make Me Do It And Other Philosophical Dilemmas

Have you ever heard of a person who left you wondering, "How could someone be so twisted? So evil?" Prompted by clues in her sister's diary after her mysterious death, author Barbara Oakley takes the reader inside the head of the kinds of malevolent people you know, perhaps all too well, but could never understand. Starting with psychology as a frame of reference, Oakley uses cutting-edge images of the working brain to provide startling support for the idea that "evil" people act the way they do mainly as the result of a dysfunction. In fact, some deceitful, manipulative, and even sadistic behavior appears to be programmed genetically—suggesting that some people really are born to be bad. Oakley links the latest findings of molecular research to a wide array of seemingly unrelated historical and current phenomena, from the harems of the Ottomans and the chummy jokes of "Uncle Joe" Stalin, to the remarkable memory of investor Warren Buffet. Throughout, she never loses sight of the personal cost of evil genes as she unravels the mystery surrounding her sister's enigmatic life—and death. *Evil Genes* is a tour-de-force of popular science writing that brilliantly melds scientific research with intriguing family history and puts both a human and scientific face to evil.

Genetics of Fitness and Physical Performance is the first comprehensive reference on the role of the genes in influencing individual variation in fitness and performance. This essential compendium reviews the past 25 years of accumulated evidence on the genetic basis of health- and performance-related fitness phenotypes. Focusing on the interests of sport scientists, the authors provide insight into the significance of this research on nearly every aspect of the study of human physical activity. The book presents the biological basis of heredity and explains the concepts and methods of genetic epidemiology and molecular biology that are necessary to understand this specialized field. With the rapid advances in molecular biology and the paradigms of human genetics, exercise scientists face a dynamic and vibrant new field. This book offers readers new opportunities to better understand atherosclerosis, noninsulin dependent diabetes, obesity, and hypertension by searching for single gene effects and identifying susceptibility genes. The authors review the evidence on the role of the genes for human traits as it pertains to the exercise science field. And they explore the scientific, practical, and ethical issues that confront exercise scientists as progress is made in this field. *Genetics of Fitness and Physical Performance* is vital reading for scholars in the field of exercise and sport science to understand how recent discoveries in genetics might shape their future research.

This volume provides an in-depth look at the genetic influences that contribute to the development of alcoholism. Part I: Epidemiologic Studies contains five chapters that examine the various approaches employed in the study of the genetics of alcoholism. It provides a historical perspective and details all the essentials of this subject. Part II: Selective Breeding Studies highlights the results of research involving the selective breeding of rodents. This type of research has produced homogenous strains exhibiting specific behavioral responses considered significant in the development and maintenance of alcohol dependence. The studies presented in Part III: Phenotypic Studies investigate and analyze phenotypic markers that serve as correlates to the genotypic determinants of alcoholism. Through its broad scope, this volume provides for the first time a panoramic view of the knowledge available on the hereditary influences of alcoholism.

Why are you attracted to a certain "type?" Why are you a morning person? Why do you vote the way you do? From a witty new voice in popular science comes a clever, life-changing look at what makes you you. "I can't believe I just said that." "What possessed me to do that?" "What's wrong with me?" We're constantly seeking answers to these fundamental human questions, and now, science has the answers. The foods we enjoy, the people we love, the emotions we feel, and the beliefs we hold can all be traced back to our DNA, germs, and environment. This witty, colloquial book is popular science at its best, describing in everyday language how genetics, epigenetics, microbiology, and psychology work together to influence our personality and actions. Mixing cutting-edge research and relatable humor, *Pleased to Meet Me* is filled with fascinating insights that shine a light on who we really are--and how we might become our best selves.

Genetics of Fitness and Physical Performance

Genes, Experience, and What Makes Us Human

The Art of Genes

The Gene as a Cultural Icon

Nature Via Nurture

An Intimate History

The Genetic Lottery

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 and shows how nurture combines with nature to engineer biological

diversity. Surveying the twenty-year history of the field while also highlighting its latest findings and innovations, this volume provides a readily understandable introduction to the foundations of epigenetics. Nessa Carey, a leading epigenetics researcher, connects the field's arguments to such diverse phenomena as how ants and queen bees control their colonies; why tortoiseshell cats are 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, 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.

A top behavioral geneticist makes the case that DNA inherited from our parents at the moment of conception can predict our psychological strengths and weaknesses. In *Blueprint*, behavioral geneticist Robert Plomin describes how the DNA revolution has made DNA personal by giving us the power to predict our psychological strengths and weaknesses from birth. A century of genetic research shows that DNA differences inherited from our parents are the consistent life-long sources of our psychological individuality—the blueprint that makes us who we are. This, says Plomin, is a game changer. Plomin has been working on these issues for almost fifty years, conducting longitudinal studies of twins and adoptees. He reports that genetics explains more of the psychological differences among people than all other factors combined. Genetics accounts for fifty percent of psychological differences—not just mental health and school achievement but all psychological traits, from personality to intellectual abilities. Nature, not nurture is what makes us who we are. Plomin explores the implications of this, drawing some provocative conclusions—among them that parenting styles don't really affect children's outcomes once genetics is taken into effect. Neither tiger mothers nor attachment parenting affects children's ability to get into Harvard. After describing why DNA matters, Plomin explains what DNA does, offering readers a unique insider's view of the exciting synergies that came from combining genetics and psychology.

The authors explore the question of whether our sexual orientation is inherited or if it is a product of our upbringing and/or environment. Many people think gays are born that way, and few understand enough about genetics and human biology to mount a thorough defense of the facts. *My Genes Made Me Do It* explains the role of genetics and biology in human behavior with a particular, though not exclusive, emphasis on homosexuality. Conventional scientific method and research findings are brought together in a fresh, original way to argue that no human behaviors are biologically determined.

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

Did My Genes Make Me Make It?

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

My Genes Made Me Do It!

Biological Determinism, Free Will and Moral Responsibility

The Genetics of Alcoholism

Molecular Biology of the Cell

Am I My Genes?

Instant National Bestseller After suffering for years with unexplainable health issues, Dr. Ben Lynch discovered the root cause— “ dirty ” genes. Genes can be “ born dirty ” or merely “ act dirty ” in response to your environment, diet, or lifestyle—causing lifelong, life-threatening, and chronic health problems, including cardiovascular disease, autoimmune disorders, anxiety, depression, digestive issues, obesity, cancer, and diabetes. Based on his own experience and successfully helping thousands of clients, Dr. Lynch shows you how to identify and optimize both types of dirty genes by cleaning them up with targeted and personalized plans, including healthy eating, good sleep, stress relief, environmental detox, and other holistic and natural means. Many of us believe our genes doom us to the disorders that run in our families. But Dr. Lynch reveals that with the right plan in place, you can eliminate symptoms, and optimize your physical and mental health—and ultimately rewrite your genetic destiny.

The #1 NEW YORK TIMES 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 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 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 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 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 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 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 and Pythagoras to Mendel and Darwin, from Boveri and Morgan to Crick, Watson and Franklin, all 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 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 explained by a master. “ The Gene is a book we all should read ” (USA TODAY).

It's obvious why only men develop prostate cancer and why only women get ovarian cancer. But it is not obvious why women are more likely to recover language ability after a stroke than men or why women are more apt to develop autoimmune diseases such as lupus. Sex differences in health throughout the lifespan have been documented. Exploring the Biological Contributions to Human Health begins to snap the pieces of the puzzle into place so that this knowledge can be used to improve health for both sexes. From behavior and cognition to metabolism and response to chemicals and infectious organisms, this book explores the health impact of sex (being male or female, according to reproductive organs and chromosomes) and gender (one's sense of self as male or female in society). Exploring the Biological Contributions to Human Health discusses basic biochemical differences in the cells of males and females and health variability between the sexes from conception throughout life. The book identifies key research needs and opportunities and addresses barriers to research. Exploring the Biological Contributions to Human Health will be important to health policy makers, basic, applied, and clinical researchers, educators, providers, and journalists-while being very accessible to interested lay readers.

HAVE YOU EVER wondered what makes you, You? Join Poppy on her journey into the fascinating world of her genetics. Learn how Poppy's genes created her red hair and blue eyes -- and trace these traits through her family tree. Poppy's genes are not the only things that help make her unique. discover, with Poppy, how your genes and the world around you can shape who you are. - What makes you unique? - Why do you look like your family? - What do genes have to do with it? Join Poppy to find out answers to these questions and more.

Genome

Evil Genes

Are We Slaves to our Genes?

Genes, Germs, and the Curious Forces That Make Us Who We Are

The DNA Mystique

A Breakthrough Program to Treat the Root Cause of Illness and Optimize Your Health

She Has Her Mother's Laugh

A historical and critical analysis of the concept of the gene that attempts to provide new perspectives and metaphors for the transformation of biology and its philosophy.

Dawson Church applies the insights of the new field of Epigenetics (epi=above, i.e. control above the level of the gene) to healing. Citing hundreds of scientific studies, he shows how beliefs and emotions can trigger the expression of DNA strands. He focuses on a class of genes called Immediate Early Genes or IEGs. These genes turn on within a few seconds of a stimulus. They can be triggered by thoughts or emotions. Many IEGs are regulatory genes turn on other genes that affect specific aspects of our immune system, such as the production of white blood cells that destroy attacking bacteria and viruses. Epigenetics thus influences our health every day. He coins the new term "Epigenetic Medicine" to describe healing techniques with epigenetic effects. He also summarises the science behind the infant fields of Energy Psychology and Energy Medicine, both of which offer promising epigenetic medical therapies, and describes a few of the thousands of powerful personal breakthroughs that are being achieved by therapists, doctors and lay people practising these techniques. "The Genie in Your Genes" shows that there is a sound theoretical framework, based on credible experiments, for understanding these astonishing results, and predicts that the insights of Epigenetic Medicine will dramatically advance the fields of both medicine and psychology in the coming decade. Best of all, the book demonstrates that, by taking control of our consciousness and using it to influence our genetic expression, we can sometimes bypass years of therapy, as well as harmful drugs and invasive surgeries, to, in effect, do continuous genetic engineering on our own bodies. This can produce both immediate relief from long-standing anxieties and neuroses, as well as "miraculous" healing of persistent physical conditions, especially autoimmune diseases. Among a new crop of books that chart the way to a positive health future, The Genie in Your Genes stands out as a solidly grounded and exciting pointer to the future possibilities of a medicine that links soul to body and mind.

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

Evolutionary genetics - the subject of this book - sends the individual crashing. Considered until recently to be the target of selection and the focus of evolution, the individual has been usurped by the gene. The individual is nothing but the gene's avatar."--BOOK JACKET.

The Science Behind the Human Genome Project

The Powers, Perversions, and Potential of Heredity

With Their Matter More Than You Think

DNA Demystified

The Story of Genes and Genetic Engineering

Homosexuality and the Scientific Evidence

'Coen's book is spiced with historic quotations and examples of plants' and animals' intriguing behaviour contains a wealth of interesting material Coen communicates his immense learning with a hundred appealing tales' Max Perutz How is a tiny fertilised egg able to turn itself into a human being? How can an acorn transform itself into an oak tree? Over the past twenty years there has been a revolution in biology. For the first time we have begun to understand how organisms make themselves. The Art of Genes gives an account of these new and exciting findings, and of their broader significance for how we view ourselves. Through a highly original synthesis of science and art, Enrico Coen vividly describes this revolution in our understanding of how plants and animals develop. Drawing on a wide range of examples—from flowers growing petals instead of sex organs, and flies that develop an extra pair of wings, to works of art by Leonardo and Magritte—he explains in lively, accessible prose the language and meaning of genes. 'I would have loved this book at 16, and so should anyone—aged 16 to 60—who really wants to understand development.' John Maynard Smith, *Nature*

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

Our DNA connects us all, big and small! You Share Genes with Me offers the very youngest readers a playful introduction to genetics. Through simple rhyme and whimsical illustrations, children and older readers alike will discover what they share in common with a monkey, a fish, a fruit fly, even each other.

Describes, in a delightfully accessible way, the fascinating world of the molecular biology of the gene.

Blueprint

Insights from Genetics and Neuroscience

Does Sex Matter?

Why DNA Matters for Social Equality

The Epigenetics Revolution

Pleased to Meet Me

Living with Our Genes

In this volume, the psychiatrist Robert Klitzman explores how individuals confront the complex issues associated with genetic testing in their daily lives.

This book tells the story behind one of the most difficult--and ultimately rewarding--scientific endeavors in modern history: a multibillion-dollar international undertaking that will revolutionize our understanding of the human body. Exons, Introns, and Talking Genes is a scientist's view of the Human Genome Project. Wills explains the science as no layperson could, telling the story of the scientists involved in the project, the biomedical breakthroughs that led up to it, and how the new information it generates will change the way we understand and treat disease. Ever since Watson and Crick discovered the structure of DNA, scientists have been trying to "read" the human genetic code locked in the millions and millions of bases that make up DNA. But over the past thirty years, as many new questions have been raised as answered. Why, for example, do we carry long, repeating stretches of DNA that play no discernible role in heredity and that are currently referred to simply as "junk DNA"? Is it really true that much of human DNA is actually viral DNA-remnants, that is, of past infections? And why is most of the DNA that codes for genes quickly removed as useless "introns," leaving only the tiny but key "exons"? When completed in the next century, the Human Genome Project will have determined every gene sequence in the human body, illuminating for scientists some of the outstanding problems in human biology: the genesis of cancer, how embryos and fetuses develop, the mechanisms of aging, and the origin of mutations.

The overwhelming majority of Americans believe in God; this conviction has existed since the beginning of recorded time and is shared by billions around the world. In *The God Gene*, Dr. Dean Hamer reveals that this inclination towards religious faith is in good measure due to our genes and may even offer an evolutionary advantage by helping us get through difficulties, reducing stress, preventing disease, and extending life. Popular science at its best, *The God Gene* is an in-depth, fully accessible inquiry into cutting-edge research that can change the way we see ourselves and the world around us. Written with balance, integrity, and admirable scientific objectivity, this is a book for readers of science and religion alike.

On this fascinating journey, navigating the borders where science and philosophy meet, Avrum Stroll addresses the major dilemmas that have perplexed humanity since the dawn of reason.

The One and Only Me

What Genes Can't Do

Exons, Introns, and Talking Genes

And Other Philosophical Dilemmas

How Understanding Your DNA Will Empower You to Protect Yourself Against Cancer, Alzheimer's, Heart Disease, Obesity, and Many Other Conditions

A Book About Genes

Unravelling the Double Helix

This book examines the way in which new discoveries about genetic and neuroscience are influencing our understanding of human behaviour. As scientists unravel more about the ways in which genes and the environment work together to shape the development of our brains, their studies have importance beyond the narrow confines of the laboratory. This emerging knowledge has implications for our notions of morality and criminal responsibility. The extent to which "biological determinism" can be used as an explanation for our behaviour is of interest to philosophers reflecting on the free will versus determinism debate. It also has repercussions for the criminal justice system; in courtrooms around the world, defence lawyers are beginning to appeal to genetic and brain imaging data as grounds for finding their clients not guilty. Can a defendant's genes or the structure of his brain be used as an excuse for his behaviour? Is criminality "hardwired"? Is it legitimate to claim "I couldn't help it, my genes made me do it"? This book appeals to anyone interested in the link between behaviour and genetics, the science and philosophy of moral responsibility and/or criminal law.

There is growing enthusiasm in the scientific community about the prospect of mapping and sequencing the human genome, a monumental project that will have far-reaching consequences for medicine, biology, technology, and other fields. But how will such an effort be organized and funded? How will we develop the new technologies that are needed? What new legal, social, and ethical questions will be raised? Mapping and Sequencing the Human Genome is a blueprint for this proposed project. The authors offer a highly readable explanation of the technical aspects of genetic mapping and sequencing, and they recommend specific interim and long-range research goals, organizational strategies, and funding levels. They also outline some of the legal and social questions that might arise and urge their early consideration by policymakers.

There is a common misconception that our genomes - all unique, except for those in identical twins - have the upper hand in controlling our destiny. The latest genetic discoveries, however, do not support that view. Although genetic variation does influence differences in various human behaviours to a greater or lesser degree, most of the time this does not undermine our genuine free will. Genetic determinism comes into play only in various medical conditions, notably some psychiatric syndromes. Denis Alexander here demonstrates that we are not slaves to our genes. He shows how a predisposition to behave in certain ways is influenced at a molecular level by particular genes. Yet a far greater influence on our behaviours is our world-views that lie beyond science - and that have an impact on how we think the latest genetic discoveries should, or should not, be applied. Written in an engaging style, Alexander's book offers tools for understanding and assessing the latest genetic discoveries critically.

Based on his own discoveries, a molecular geneticist shows how specific genes control human behavior and helps readers understand their particular genetic makeup

Outsmart Your Genes

Understanding Genetics

The Gene

Dirty Genes

Gene Avatars

How Faith Is Hardwired into Our Genes

A New York, Mid-Atlantic Guide for Patients and Health Professionals

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 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 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 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 genetics and genomics.

Program discusses the Human Genome Project, the science behind it, and the ethical, legal and social issues raised by the project.

Documents the 2001 discovery that there are fewer genes in a human genome than previously thought and considers the argument that nurture elements are also largely responsible for human behavior.

"The book argues for a roughly 10%/90% nature/nurture effect in homosexuality while asserting that any genetic effect is very indirect eg: any physical characteristic making a person feel gender-atypical. The book shows that homosexual orientation is not biologically driven or fixed but that change toward heterosexuality frequently occurs naturally without any therapeutic interventions. It contains arguments not found elsewhere. Using orthodox science and summarising over 10,000 scientific publications and papers, it is nevertheless very accessible to the average reader"--Synopsis on website.

You Share Genes with Me

Did My Genes Make Me Do It?

The Autobiography of a Species in 23 Chapters

How DNA Makes Us Who We Are

The Selfish Gene

The Neo-Darwinian Theory of Evolution

Your Genes, Your Choices

Predictive medicine is the most exciting—and potentially groundbreaking—medical development in decades. Written by Brandon Colby, MD, a leader in the fields of predictive medicine and genetic testing, *Outsmart Your Genes* will empower you, the reader, with a clear understanding of exactly what predictive medicine entails and how it can be used today to protect your health as well as the health of those you love. Written in straightforward, nontechnical language, *Outsmart Your Genes* enables everyone, even those without any background in genetics or medicine, to understand the benefits of predictive medicine. Separating myth from fact and answering all the tough questions, *Outsmart Your Genes* clearly explains: How the revolutionary new medical specialty called predictive medicine analyzes your genes and provides you with clear solutions to protect your health and wellbeing. What the process will entail and how simple it is. For example, the process doesn't even require blood or use needles – instead, all that's needed in order to run the analysis is a small amount of your saliva. What your genes can reveal about your overall health and how we can use that information to provide you with a genetically tailored plan for preventing cancer, Alzheimer's, heart disease, obesity, and many other conditions. As opposed to just generalities, specific examples are given so that you'll know exactly how medicine will improve your life. The many ways in-which learning about your genes can help you formulate a genetically tailored nutrition and athletic plan that may help you shed those extra pounds and stay trim and fit. How predictive medicine can help both prospective and current parents protect their children against SIDS and also help minimize the impact of and most effectively treat many other childhood diseases such as autism, asthma, dyslexia, obesity, and diabetes. Why analyzing your children's genes may provide the best chance they have to fight against diseases that may not affect them until later in life, including Alzheimer's, many forms of cancer (such as breast cancer and skin cancer), multiple sclerosis, and even hearing loss. How groundbreaking advancements in the fields of genetic analysis, including predictive medicine panels and disease matrix technology, allow you and your physician to avoid information overload and focus only on the information most relevant to you. The important concepts you need to understand before speaking with a doctor. The top five questions you need to ask in order to assess: The credibility of the laboratory doing the testing. The types of diseases included in the test. How thoroughly the test actually evaluates your risk for each of the diseases. Whether the information is provided in a way that makes it actionable. Whether the results will be delivered in a format that is straightforward and easy to understand.

2019 PEN/E.O. Wilson Literary Science Writing Award Finalist "Science book of the year"—The Guardian One of New York Times 100 Notable Books for 2018 One of Publishers Weekly's Top Ten Books of 2018 One of Kirkus's Best Books of 2018 One of Mental Floss's Best Books of 2018 One of Science Friday's Best Science Books of 2018 "Extraordinary"—New York Times Book Review "Magisterial"—The Atlantic "Engrossing"—Wired "Leading contender as the most outstanding nonfiction 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 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 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 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 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 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 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 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 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 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 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 generations.

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 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 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, 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.

My Genes Made Me Do It!Huntington House Pub

Confronting Fate and Family Secrets in the Age of Genetic Testing

The Thread of Life

The God Gene

Mapping and Sequencing the Human Genome

How Organisms Make Themselves

Exploring the Biological Contributions to Human Health

The Genie in Your Genes

""If you're mystified by DNA and genetics, relax. Settle into a comfy chair as we explain what DNA is and how it works its apparent magic, revealing it's not so magical after all. We'll also cover chromosomes, genes and genomics, and how they impact our daily lives. These initial pages provide a quick overview of some common questions folks have about DNA: what it is, what you should know about it, where it comes from. If it seems like we're glossing over your favorite topic, be patient, as we'll explore these and many other topics in greater depth in the subsequent chapters. For now, settle in! It's time to unpack some mysteries and explode some myths, while still marveling at the awesome star power of DNA. Like all celebrities, DNA carries a mystique, a compelling story combining remarkable skills with some manufactured hype. 'It's in our DNA' is now a standard refrain for marketers and individuals trumpeting some essential virtue: honesty, courage, integrity, permanence, the spirit of discovery¹. The aura of DNA sells everything from colleges and companies to cars, electric fences, and even literary agents. The marketing hype is often misplaced, but DNA is undoubtedly a wondrous molecule. It's the only known molecule capable of reproducing itself, and is present in all living things. DNA is, indeed, the essence of life itself. Between the Presidential citations, popular television shows such as CSI (Crime Scene Investigation) and a multitude of gratuitous marketing clichés, almost everyone knows "DNA". Or, at least, they think they know about DeoxyriboNucleic Acid, aka "DNA". The New York Times index shows over 500 news articles on DNA in the first half of 2019 alone, an average of over two stories per day.² Yet many otherwise well-informed readers don't know what DNA is or how it works.""--

"The DNA Mystique is a wake-up call to all who would dismiss America's love affair with 'the gene' as a merely eccentric obsession." --In These Times "Nelkin and Lindee are to be warmly congratulated for opening up this intriguing field [of genetics in popular culture] to further study." --Nature The DNA Mystique suggests that the gene in popular culture draws on scientific ideas but is not constrained by the technical definition of the gene as a section of DNA that codes for a protein. In highlighting DNA as it appears in soap operas, comic books, advertising, and other expressions of mass culture, the authors propose that these domains provide critical insights into science itself. With a new introduction and conclusion, this edition will continue to be an engaging, accessible, and provocative text for the sociology, anthropology, and bioethics classroom, as well as stimulating reading for those generally interested in science and culture.

Epigenetic Medicine and the New Biology of Intention

From the Color of Your Eyes to the Length of Your Life, a Revealing Look at Your Genetic Traits

What's in Your Genes?

*Exploring the Issues Raised by Genetic Research
Why Rome Fell, Hitler Rose, Enron Failed, and My Sister Stole My Mother's Boyfriend*