

Violinists Thumb And Other Lost Tales Of Love War And Genius As Written By Our Genetic Code

The Name of this Book Is Secret
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The Disappearing Spoon
and other true tales from the Periodic Table
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The Name of this Book Is Secret

Human genomes are 99.9 percent identical—with one prominent exception. Instead of a matching pair of X chromosomes, men carry a single X, coupled with a tiny chromosome called the Y. Tracking the emergence of a new and distinctive way of thinking about sex represented by the unalterable, simple, and visually compelling binary of the X and Y chromosomes, *Sex Itself* examines the interaction between cultural gender norms and genetic theories of sex from the beginning of the twentieth century to the present, postgenomic age. Using methods from history, philosophy, and gender studies of science, Sarah S. Richardson uncovers how gender has helped to shape the research practices, questions asked, theories and models, and descriptive language used in sex chromosome research. From the earliest theories of chromosomal sex determination, to the mid-century hypothesis of the aggressive XYY supermale, to the debate about Y chromosome degeneration, to the recent claim that male and female genomes are more different than those of humans and chimpanzees, Richardson shows how cultural gender conceptions influence the genetic science of sex. Richardson shows how sexual science of the past continues to resonate, in ways both subtle and explicit, in contemporary research on the genetics of sex and gender. With the completion of the Human Genome Project, genes and chromosomes are moving to the center of the biology of sex. *Sex Itself* offers a compelling argument for the importance of ongoing critical dialogue on how cultural conceptions of gender operate within the science of sex.

The Violinist's Thumb

The genome's been mapped. But what does it mean? 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, Matt 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.

The Disappearing Spoon and other true tales from the Periodic Table

"A first-person narrative that takes readers inside the medical profession as one doctor solves real-life medical mysteries"--Provided by publisher.

DNA USA: A Genetic Portrait of America

Life would not exist without sensitive, or soft, matter. All biological structures depend on it, including red blood globules, lung fluid, and membranes. So do industrial emulsions, gels, plastics, liquid crystals, and granular materials. What makes sensitive matter so fascinating is its inherent versatility. Shape-shifting at the slightest provocation, whether a change in composition or environment, it leads a fugitive existence. Physicist Michel Mitov brings drama to molecular gastronomy (as when two irreconcilable materials are mixed to achieve the miracle of mayonnaise) and offers answers to everyday questions, such as how does paint dry on canvas, why does shampoo foam better when you "repeat," and what allows for the controlled release of drugs? Along the way we meet a futurist cook, a scientist with a runaway imagination, and a penniless inventor named Goodyear who added sulfur to latex, quite possibly by accident, and created durable rubber. As Mitov demonstrates, even religious ritual is a lesson in the surprising science of sensitive matter. Thrice yearly, the reliquary of St. Januarius is carried down cobblestone streets from the Cathedral to the Church of St. Clare in Naples. If all goes as hoped--and since 1389 it often has--the dried blood contained in the reliquary's largest vial liquefies on reaching its destination, and Neapolitans are given a reaffirming symbol of renewal.

Caesar's Last Breath

Award-winning physician and New York Times bestselling author Sharon Moalem, MD, PhD, reveals how genetic breakthroughs are completely transforming our understanding of both the world and our lives. INHERITANCE Conventional wisdom dictates that our genetic destiny is fixed at conception. But Dr. Moalem's groundbreaking book shows us that the human genome is far more fluid and fascinating than your ninth grade biology teacher ever imagined. By bringing us to the bedside of his unique and complex patients, he masterfully demonstrates what rare genetic conditions can teach us all about our own health and well-being. In the brave new world we're rapidly rocketing into, genetic knowledge has become absolutely crucial. INHERITANCE provides an indispensable roadmap for this journey by teaching you: -Why you may have recovered from the psychological trauma caused by childhood bullying-but your genes may remain scarred for life. -How fructose is the sugar that makes fruits sweet-but if you have certain genes, consuming it can buy you a one-way trip to the coroner's office. -Why ingesting common painkillers is like dosing yourself repeatedly with morphine-if you have a certain set of genes. -How insurance companies legally use your genetic data to predict the risk of disability for you and your children-and how that impacts the coverage decisions they make for your family. -How to have the single most important conversation with your doctor-one that can save your life. And finally: -Why people with rare genetic conditions hold the keys to medical problems affecting millions. In this trailblazing book, Dr. Moalem

employs his wide-ranging and entertaining interdisciplinary approach to science and medicine-- explaining how art, history, superheroes, sex workers, and sports stars all help us understand the impact of our lives on our genes, and our genes on our lives. INHERITANCE will profoundly alter how you view your genes, your health--and your life.

Night

Examines the emergence and causes of new diseases all over the world, describing a process called “spillover” where illness originates in wild animals before being passed to humans and discusses the potential for the next huge pandemic. 70,000 first printing.

The Disappearing Spoon

"[Kolata] is a gifted storyteller. Her account of the Baxleys is both engrossing and distressing Kolata's book raises crucial questions about knowledge that can be both vital and fatal, both pallative and dangerous." —Andrew Solomon, The New York Review of Books New York Times science reporter Gina Kolata follows a family through genetic illness and one courageous daughter who decides her fate shall no longer be decided by a genetic flaw. The phone rings. The doctor from California is on the line. “Are you ready Amanda?” The two people Amanda Baxley loves the most had begged her not to be tested—at least, not now. But she had to find out. If your family carried a mutated gene that foretold a brutal illness and you were offered the chance to find out if you’d inherited it, would you do it? Would you walk toward the problem, bravely accepting whatever answer came your way? Or would you avoid the potential bad news as long as possible? In *Mercies in Disguise*, acclaimed New York Times science reporter and bestselling author Gina Kolata tells the story of the Baxleys, an almost archetypal family in a small town in South Carolina. A proud and determined clan, many of them doctors, they are struck one by one with an inscrutable illness. They finally discover the cause of the disease after a remarkable sequence of events that many saw as providential. Meanwhile, science, progressing for a half a century along a parallel track, had handed the Baxleys a resolution—not a cure, but a blood test that would reveal who had the gene for the disease and who did not. And science would offer another dilemma—fertility specialists had created a way to spare the children through an expensive process. A work of narrative nonfiction, *Mercies in Disguise* is the story of a family that took matters into its own hands when the medical world abandoned them. It’s a story of a family that had to deal with unspeakable tragedy and yet did not allow it to tear them apart. And it is the story of a young woman—Amanda Baxley—who faced the future head on, determined to find a way to disrupt her family’s destiny.

Mercies in Disguise

At seventeen Cindy Sanders writes the equation for the first operational time machine. This places her name on the Genius List, a 23rd century list of historical teenage science and military geniuses. Being on this list comes at a price; the top twenty geniuses are captured and placed together like mice in an inescapable experimental dome. Cindy must decide to either take part in the merciless experiments or lead an uprising with the greatest teenage geniuses in human history.

Genius List

From New York Times bestselling author Sam Kean comes incredible stories of science, history, finance, mythology, the arts, medicine, and more, as told by the Periodic Table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why is gallium (Ga, 31) the go-to element for laboratory pranksters?* The Periodic Table is a crowning scientific achievement, but it's also a treasure trove of adventure, betrayal, and obsession. These fascinating tales follow every element on the table as they play out their parts in human history, and in the lives of the (frequently) mad scientists who discovered them. *THE DISAPPEARING SPOON* masterfully fuses science with the classic lore of invention, investigation, and discovery--from the Big Bang through the end of time. *Though solid at room temperature, gallium is a moldable metal that melts at 84 degrees Fahrenheit. A classic science prank is to mold gallium spoons, serve them with tea, and watch guests recoil as their utensils disappear.

Making Habits, Breaking Habits

Lambda Literary Award finalist In *Sassafras* Lowrey's gorgeous queer punk reimaging of the classic Peter Pan story, prepare to be swept overboard into a world of orphaned, abandoned, and runaway bois who have sworn allegiance and service to Pan, the fearless leader of the Lost Bois brigade and the newly corrupted Mommy Wendi who, along with the tomboy John Michael, Pan convinces to join him at Neverland. Told from the point of view of Tootles, Pan's best boi, the lost bois call the Neverland squat home, creating their own idea of family, and united in their allegiance to Pan, the boi who cannot be broken, and their refusal to join ranks with Hook and the leather pirates. Like a fever-pitched dream, *Lost Boi* situates a children's fantasy within a subversive alternative reality, chronicling the lost bois' search for belonging, purpose, and their struggle against the biggest battle of all: growing up. *Sassafras* Lowrey is a straight-edge queer punk who won the Lambda Literary Emerging Writer Award and was named to the inaugural Trans 100 list by *We Be Trans*. *Sassafras*'s books, *Kicked Out*, *Roving Pack*, and *Leather Ever After*, have been honored by organizations ranging from the National Leather Association to the American Library Association.

Beyond Willpower

Traces the crisis period leading up to America's entry in World War II, describing the nation's polarized interventionist and isolation factions as represented by the government, in the press and on the streets, in an account that explores the forefront roles of British-supporter President Roosevelt and isolationist Charles Lindbergh. (This book was previously featured in *Forecast*.)

A Guinea Pig's History of Biology

It was December 3, 1984. In the ancient city of Bhopal, a cloud of toxic gas escaped from an American pesticide plant, killing and injuring thousands of people. When the noxious clouds cleared, the worst industrial disaster in history had taken place. Now, Dominique Lapierre brings the hundreds of characters, conflicts, and adventures together in an unforgettable tale of love and hope. Readers will meet the poetry-loving factory worker who unleashes

the apocalypse, the young Indian bride who was to be married that terrible night, and the doctors who died that night saving others. It is a gripping, fascinating account that is already mesmerizing readers around the world.

Spillover: Animal Infections and the Next Human Pandemic

Traces the history of the instrument, from its first appearance in the mid-16th century to its modern use by artists, writers and Hollywood and discusses how the affordable, portable instrument can be used to play Beethoven, jazz and indie rock. 10,000 first printing.

The Greatest Russian Stories of Crime and Suspense

Can talent be explained? The "secret" techniques and musical insights of classical music's greatest performers are revealed by David Jacobson, founder/director of the San Francisco Institute of Music and graduate of Curtis Institute of Music. This window into their genius will transform and revitalize the art of classical music.

The Perfect Theory

This manual encompasses an integrated series of molecular biology laboratory exercises that involve the cloning and analysis of the bioluminescence (lux) genes from the marine bacterium *Vibrio fischeri*. **KEY TOPICS:** The manual is divided into discrete units with each demonstrating one or more aspects of the cloning project. The manual is based on one of nature's most fascinating biological phenomenon: the biological production of light. This results in a recurrent theme of interest and makes the project very relevant to interdisciplinary topics such as fish symbiosis, biochemistry, biophysics, etc. Includes instruction in the basic techniques of modern molecular biology: DNA isolation and analysis, DNA restriction, agarose gel electrophoresis, ligations, transformation of recombinant DNA, preparation and screening a genomic library, restriction mapping, Southern blotting, hybridization, DNA sequencing, pulsed field gel electrophoresis. **MARKET:** Designed for a one semester course in Molecular Biology. Also appropriate for a molecular biology component of Microbial Genetics, Genetics, Biochemistry, or Advanced Microbiology courses.

The Brain That Changes Itself

A new book from the bestselling author of *The Healing Code* about how to go from stress to success in 40 days. The revolutionary new science of Practical Spirituality designed to replace stress with well being and success, quickly and for the long term. Did you know that most self-help programmes have a 97% failure rate? The truth is that the standard self-help mantra of tapping into your willpower and using the power of positive thinking is actually a blueprint for failure. In *Beyond Willpower*, bestselling author and psychological counsellor Alex Loyd, reveals the definitive step-by-step programme to help you finally achieve the life you want and the success you deserve. Science has proven that stress is the primary source of virtually any problem - physical, spiritual, emotional, and even circumstantial. Loyd believes that we need to understand how love works in our bodies to combat stress. By

harnessing love's power and learning to love in the present moment, you can define your life goals and live mindfully in a state of peace. Beyond Willpower offers a revolutionary 40-day holistic guide based on more than 25 years of clinical experience and rooted in science, ancient wisdom, and proven therapeutic techniques to remove personal obstacles that sabotage success. Using the programme you will define your goal, be it wealth, career satisfactions, healing of health issues, or resolution of relationship problems and follow the step-by step process for achieving this goal quickly and for the long term.

The Bastard Brigade

From New York Times bestselling author Sam Kean comes the gripping, untold story of a renegade group of scientists and spies determined to keep Adolf Hitler from obtaining the ultimate prize: a nuclear bomb. Scientists have always kept secrets. But rarely have the secrets been as vital as they were during World War II. In the middle of building an atomic bomb, the leaders of the Manhattan Project were alarmed to learn that Nazi Germany was far outpacing the Allies in nuclear weapons research. Hitler, with just a few pounds of uranium, would have the capability to reverse the entire D-Day operation and conquer Europe. So they assembled a rough and motley crew of geniuses -- dubbed the Alsos Mission -- and sent them careening into Axis territory to spy on, sabotage, and even assassinate members of Nazi Germany's feared Uranium Club. The details of the mission rival the finest spy thriller, but what makes this story sing is the incredible cast of characters -- both heroes and rogues alike -- including: Moe Berg, the major league catcher who abandoned the game for a career as a multilingual international spy; the strangest fellow to ever play professional baseball. Werner Heisenberg, the Nobel Prize-winning physicist credited as the discoverer of quantum mechanics; a key contributor to the Nazi's atomic bomb project and the primary target of the Alsos mission. Colonel Boris Pash, a high school science teacher and veteran of the Russian Revolution who fled the Soviet Union with a deep disdain for Communists and who later led the Alsos mission. Joe Kennedy Jr., the charismatic, thrill-seeking older brother of JFK whose need for adventure led him to volunteer for the most dangerous missions the Navy had to offer. Samuel Goudsmit, a washed-up physics prodigy who spent his life hunting Nazi scientists -- and his parents, who had been swept into a concentration camp -- across the globe. Irène and Frederic Joliot-Curie, a physics Nobel-Prize winning power couple who used their unassuming status as scientists to become active members of the resistance. Thrust into the dark world of international espionage, these scientists and soldiers played a vital and largely untold role in turning back one of the darkest tides in human history.

Empty Mansions

“One of the best popular accounts of how Einstein and his followers have been trying to explain the universe for decades” (Kirkus Reviews, starred review). Physicists have been exploring, debating, and questioning the general theory of relativity ever since Albert Einstein first presented it in 1915. This has driven their work to unveil the universe’s surprising secrets even further, and many believe more wonders remain hidden within the theory’s tangle of equations, waiting to be exposed. In this sweeping narrative of science and culture, an astrophysicist brings general relativity to life through the story of the brilliant physicists, mathematicians, and astronomers who have taken up its challenge. For these scientists, the theory has been both a treasure trove and an enigma. Einstein’s theory, which explains the relationships among gravity, space, and time, is possibly the most perfect intellectual achievement of modern physics—yet studying it has always been a controversial endeavor. Relativists were the target of persecution in Hitler’s Germany, hounded in Stalin’s

Russia, and disdained in 1950s America. Even today, PhD students are warned that specializing in general relativity will make them unemployable. Still, general relativity has flourished, delivering key insights into our understanding of the origin of time and the evolution of all the stars and galaxies in the cosmos. Its adherents have revealed what lies at the farthest reaches of the universe, shed light on the smallest scales of existence, and explained how the fabric of reality emerges. Dark matter, dark energy, black holes, and string theory are all progeny of Einstein's theory. In the midst of a momentous transformation in modern physics, as scientists look farther and more clearly into space than ever before, *The Perfect Theory* exposes the greater relevance of general relativity, showing us where it started, where it has led—and where it can still take us.

Napoleon's Buttons

Examines the roles that the molecular properties of such items as the birth control pill, caffeine, and the buttons on the uniforms of Napoleon's army have played in the course of history.

Sensitive Matter

The first anthology ever devoted entirely to Russian crime fiction—including works by Acunin, Chekhov, Dostoevsky, Gogol, Nabokov, Pushkin, and Tolstoy. Many of the greatest Russian authors, including Dostoevsky, Tolstoy, Chekhov, and Pushkin, produced crime and mystery fiction, a type of literature that was largely suppressed during the Soviet era because it did not glorify the state but, instead, gave individuals the significance that the U.S.S.R. despised. With the fall of the Soviet Union, mystery writers have become some of the most successful novelists in Russia, and there is a renewed interest in the great crime classics of an earlier era. Nonetheless, the enormous talent and passion of Russian authors has long been justly acclaimed, and the rare forays they made into the genre rank among the world's classics. This volume is the first collection ever devoted entirely to Russian crime fiction.

One Doctor

The author draws on memories from her own youth as she describes her meeting with Jim Johnson, a retired army officer, at a horse-trading show in Missouri, and their subsequent journey through the southern states in search of Jiles' extended family.

All Quiet on the Western Front

For centuries, scientists had only one way to study the brain: wait for misfortune to strike - strokes, seizures, infections, lobotomies, horrendous accidents, phantom limbs, Siamese twins - and see how the victims changed afterwards. In many cases their survival was miraculous, and observers marvelled at the transformations that took place when different parts of the brain were destroyed. Parents suddenly couldn't recognise their children. Pillars of the community became pathological liars and paedophiles. Some people couldn't speak but could still sing. Others couldn't read but could write. The stories of these people laid the foundations of modern neuroscience and, century by century, key cases taught scientists what every last region of the brain did. With

lucid explanations and incisive wit, Sam Kean explores the brain's secret passageways and recounts the forgotten tales of the ordinary individuals whose struggles, resilience and deep humanity made neuroscience possible.

A Forever Family

Cousins

A cousin of Huguette Clark and a Pulitzer Prize-winning journalist trace the life of the reclusive American heiress against a backdrop of the now-infamous W. A. Clark family and include coverage of the internet sensation and elder-abuse investigation that occurred at the end of her life.

Sex Itself

The Guardian's Best Science Book of 2017 One of Science News's Favorite Science Books of 2017 The fascinating science and history of the air we breathe It's invisible. It's ever-present. Without it, you would die in minutes. And it has an epic story to tell. In *Caesar's Last Breath*, New York Times bestselling author Sam Kean takes us on a journey through the periodic table, around the globe, and across time to tell the story of the air we breathe, which, it turns out, is also the story of earth and our existence on it. With every breath, you literally inhale the history of the world. On the ides of March, 44 BC, Julius Caesar died of stab wounds on the Senate floor, but the story of his last breath is still unfolding; in fact, you're probably inhaling some of it now. Of the sextillions of molecules entering or leaving your lungs at this moment, some might well bear traces of Cleopatra's perfumes, German mustard gas, particles exhaled by dinosaurs or emitted by atomic bombs, even remnants of stardust from the universe's creation. Tracing the origins and ingredients of our atmosphere, Kean reveals how the alchemy of air reshaped our continents, steered human progress, powered revolutions, and continues to influence everything we do. Along the way, we'll swim with radioactive pigs, witness the most important chemical reactions humans have discovered, and join the crowd at the Moulin Rouge for some of the crudest performance art of all time. Lively, witty, and filled with the astounding science of ordinary life, *Caesar's Last Breath* illuminates the science stories swirling around us every second.

Unraveling DNA

A young readers edition of the New York Times bestseller *The Disappearing Spoon*, chronicling the extraordinary stories behind one of the greatest scientific tools in existence: the periodic table. Why did Gandhi hate iodine (I, 53)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why did tellurium (Te, 52) lead to the most bizarre gold rush in history? The periodic table is a crowning scientific achievement, but it's also a treasure trove of adventure, greed, betrayal, and obsession. The fascinating tales in *The Disappearing Spoon* follow elements on the table as they play out their parts in human history, finance, mythology, conflict, the arts, medicine, and the lives of the (frequently) mad scientists who discovered them. Adapted for a middle grade audience, the young readers edition of *The Disappearing Spoon* offers the material in a simple, easy-to-follow format, with approximately 20 line

drawings and sidebars throughout. Students, teachers, and burgeoning science buffs will love learning about the history behind the chemistry.

Genome

The transformative wave of Darwinian insight continues to expand throughout the human sciences. While still centered on evolution-focused fields such as evolutionary psychology, ethology, and human behavioral ecology, this insight has also influenced cognitive science, neuroscience, feminist discourse, sociocultural anthropology, media studies, and clinical psychology. This handbook's goal is to amplify the wave by bringing together world-leading experts to provide a comprehensive and up-to-date overview of evolution-oriented and influenced fields. While evolutionary psychology remains at the core of the collection, it also covers the history, current standing, debates, and future directions of the panoply of fields entering the Darwinian fold. As such, The Cambridge Handbook of Evolutionary Perspectives on Human Behavior is a valuable reference not just for evolutionary psychologists but also for scholars and students from many fields who wish to see how the evolutionary perspective is relevant to their own work.

Lost Boi

An astonishing new scientific discovery called neuroplasticity is overthrowing the centuries-old notion that the adult human brain is fixed and unchanging. It is, instead, able to change its own structure and function, even into old age. Psychiatrist and researcher Norman Doidge, M.D., travelled around the United States to meet the brilliant scientists championing neuroplasticity, and the people whose lives they've transformed — people whose mental limitations or brain damage were previously seen as unalterable, and whose conditions had long been dismissed as hopeless. We see a woman born with half a brain that rewired itself to work as a whole; a woman labeled retarded who cured her deficits with brain exercises and now cures those of others; blind people who learn to see; learning disorders cured; IQs raised; ageing brains rejuvenated; stroke patients recovering their faculties; children with cerebral palsy learning to move more gracefully; entrenched depression and anxiety disappearing; and lifelong character traits changed. Doidge takes us onto terrain that might seem fantastic. We learn that our thoughts can switch our genes on and off, altering our brain anatomy. We learn how people of average intelligence can, with brain exercises, improve their cognition and perception, develop muscle strength, or learn to play a musical instrument — simply by imagining doing so. Using personal stories from the heart of this neuroplasticity revolution, Dr Doidge has written an immensely moving, inspiring book that will permanently alter the way we look at our brains, human nature, and human potential.

Roald Hoffmann on the Philosophy, Art, and Science of Chemistry

A National Bestseller, a New York Times Notable Book, and an Entertainment Weekly Best Book of the Year From Steven Johnson, the dynamic thinker routinely compared to James Gleick, Dava Sobel, and Malcolm Gladwell, The Ghost Map is a riveting page-turner about a real-life historical hero, Dr. John Snow. It's the summer of 1854, and London is just emerging as one of the first modern cities in the world. But lacking the infrastructure -- garbage removal, clean water, sewers -- necessary to support its rapidly expanding population, the city has become the perfect breeding ground for a terrifying disease no one knows how to cure. As the cholera outbreak takes hold, a physician and a local curate are spurred to action-and ultimately solve the most pressing medical

riddle of their time. In a triumph of multidisciplinary thinking, Johnson illuminates the intertwined histories and interconnectedness of the spread of disease, contagion theory, the rise of cities, and the nature of scientific inquiry, offering both a riveting history and a powerful explanation of how it has shaped the world we live in.

The Disappearing Spoon

"Roald Hoffmann's contributions to chemistry are well known; this Nobel laureate has published more than 500 articles and two books. As an "applied theoretical chemist," he has made significant contributions to our understanding of chemical bonding and reactivity, and taught two generations of chemists how to use molecular orbitals for real chemistry. Less well known, however, are Hoffmann's important and insightful contributions to the areas of scholarship surrounding chemistry. Over a career that spans nearly fifty years, Roald Hoffmann has thought and written copiously about the broader context of chemistry and its relationship to the arts and poetry. This book contains Hoffmann's essays and is organized around several major themes: chemical reasoning and explanation, writing and communicating in science, ethics, art and science, and chemical education. A few are unpublished lectures that are valuable additions to the volume. The editors have the full cooperation of Roald Hoffmann in this project. Most of the published work will be reprinted verbatim, but a few of the essays will be revised to eliminate redundancy. The unpublished lectures will also be edited since they were originally intended to be delivered orally at specific occasions. The editors will provide an introduction to the book, and some introductory material for each section. In introducing the material, they will highlight the intrinsic importance and interest of the ideas, as well as the places where Hoffmann's thought makes novel contributions to cognate areas"--

Diagnosing Giants

Spotlights small and pivotal experiments that changed the course of science, including information on the study of guinea pigs, passion flowers, zebra fish, and viruses.

The Ghost Map

In the tradition of *The Promise of a Pencil* and *Kisses from Katie* comes an inspirational memoir by the founder of Comfort Cases about his turbulent childhood in the foster care system and the countless obstacles and discrimination he endured in adopting his four children. Rob Scheer never thought that he would be living the life he is now. He's happily married to his partner and love of his life, he's the father of four beautiful children, and he's the founder of an organization that makes life better for thousands of children in the foster care system. But life wasn't always like this. Growing up in an abusive household before his placement in foster care, Rob had all the odds stacked against him. Kicked out of his foster family's home within weeks after turning eighteen—with a year left of high school to go—he had to resort to sleeping in his car and in public bathrooms. He suffered from drug addiction and battled with depression, never knowing when his next meal would be or where he would sleep at night. But by true perseverance, he was able to find his own path and achieve his wildest dreams. "A heartwarming, hopeful memoir brimming with humanitarianism and compassion" (Kirkus Reviews), Rob's

story provides a glimpse into what it's like to grow up in the foster care system, and sheds necessary light on the children who are often treated without dignity. Both a timely call to action and a courageous and candid account of life in the foster care system, A Forever Family ultimately leaves you with one message: one person can make a difference.

Those Angry Days

Could Lincoln have lived? After John Wilkes Booth fired a low-velocity .44 caliber bullet into the back of the president's skull, Lincoln did not perish immediately. Attending doctors cleaned and probed the wound, and actually improved his breathing for a time. Today medical trauma teams help similar victims survive—including Gabby Giffords, whose injury was strikingly like Lincoln's. In *Diagnosing Giants*, Dr. Philip A. Mackowiak examines the historical record in detail, reconstructing Lincoln's last hours moment by moment to calculate the odds. That leads him to more questions: What if he had lived? What sort of neurological function would he have had? What kind of a Constitutional crisis would have ensued? Dr. Mackowiak, a professor at the University of Maryland School of Medicine, offers a gripping and authoritative account of thirteen patients who took center stage in world history. The result is a new understanding of how the past unfolded, as well as a sweeping survey of the history of medicine. What was the ailment that drove Caligula mad? Why did Stonewall Jackson die after having an arm amputated, when so many other Civil War soldiers survived such operations? As with Lincoln, the author explores the full contest of his subjects' lives and the impact of each case on the course of history, from Tutankhamen, Buddha, and John Paul Jones to Darwin, Lenin, and Eleanor Roosevelt. When an author illuminates the past with state-of-the-art scientific knowledge, readers pay attention. Candice Millard's *Destiny of the Republic*, about the medical malpractice that killed President James A. Garfield, was a New York Times bestseller. And Dr. Mackowiak's previous book, *Post-Mortem: Solving History's Greatest Medical Mysteries*, won the attention of periodicals as diverse as the *Wall Street Journal* and *New England Journal of Medicine*, which pleaded for a sequel. With *Diagnosing Giants*, he has written one with impeccable expertise and panache.

The Cambridge Handbook of Evolutionary Perspectives on Human Behavior

Read the series that's sold more than 2 million copies--if you dare! Warning: this description has not been authorized by Pseudonymous Bosch. As much as he'd love to sing the praises of his book (he is very vain), he wouldn't want you to hear about his brave 11-year old heroes, Cass and Max-Ernest. Or about how a mysterious box of vials, the *Symphony of Smells*, sends them on the trail of a magician who has vanished under strange (and stinky) circumstances. And he certainly wouldn't want you to know about the hair-raising adventures that follow and the nefarious villains they face. You see, not only is the name of this book secret, the story inside is, too. For it concerns a secret. A Big Secret.

What's in Your Genes?

From New York Times bestselling author Sam Kean comes incredible stories of science, history, language, and music, as told by our own DNA. In *The Disappearing Spoon*, bestselling author Sam Kean unlocked the mysteries of the periodic table. In *THE VIOLINIST'S THUMB*, he explores the wonders of

the magical building block of life: DNA. There are genes to explain crazy cat ladies, why other people have no fingerprints, and why some people survive nuclear bombs. Genes illuminate everything from JFK's bronze skin (it wasn't a tan) to Einstein's genius. They prove that Neanderthals and humans bred thousands of years more recently than any of us would feel comfortable thinking. They can even allow some people, because of the exceptional flexibility of their thumbs and fingers, to become truly singular violinists. Kean's vibrant storytelling once again makes science entertaining, explaining human history and whimsy while showing how DNA will influence our species' future.

Inheritance

Why did Gandhi hate iodine (I, 53)? Why did the Japanese kill Godzilla with missiles made of cadmium (Cd, 48)? How did radium (Ra, 88) nearly ruin Marie Curie's reputation? And why did tellurium (Te, 52) lead to the most bizarre gold rush in history? The periodic table is one of our crowning scientific achievements, but it's also a treasure trove of passion, adventure, betrayal and obsession. The fascinating tales in *The Disappearing Spoon* follow carbon, neon, silicon, gold and every single element on the table as they play out their parts in human history, finance, mythology, conflict, the arts, medicine and the lives of the (frequently) mad scientists who discovered them. Why did a little lithium (Li, 3) help cure poet Robert Lowell of his madness? And how did gallium (Ga, 31) become the go-to element for laboratory pranksters? *The Disappearing Spoon* has the answers, fusing science with the classic lore of invention, investigation, discovery and alchemy, from the big bang through to the end of time.

The Tale of the Duelling Neurosurgeons

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.

Lost Secrets of Master Musicians

Say you want to start going to the gym or practicing a musical instrument. How long should it take before you stop having to force it and start doing it automatically? The surprising answers are found in *Making Habits, Breaking Habits*, a psychologist's popular examination of one of the most powerful and under-appreciated processes in the mind. Although people like to think that they are in control, much of human behavior occurs without any decision-making or conscious thought. Drawing on hundreds of fascinating studies, psychologist Jeremy Dean busts the myths to finally explain why seemingly easy habits, like eating an apple a day, can be surprisingly difficult to form, and how to take charge of your brain's natural "autopilot" to make any change stick.

Witty and intriguing, *Making Habits, Breaking Habits* shows how behavior is more than just a product of what you think. It is possible to bend your habits to your will—and be happier, more creative, and more productive.

Five Past Midnight in Bhopal

Crisscrossing the continent, a renowned geneticist provides a groundbreaking examination of America through its DNA. The best-selling author of *The Seven Daughters of Eve* now turns his sights on the United States, one of the most genetically variegated countries in the world. From the blue-blooded pockets of old-WASP New England to the vast tribal lands of the Navajo, Bryan Sykes takes us on a historical genetic tour, interviewing genealogists, geneticists, anthropologists, and everyday Americans with compelling ancestral stories. His findings suggest:

- Of Americans whose ancestors came as slaves, virtually all have some European DNA.
- Racial intermixing appears least common among descendants of early New England colonists.
- There is clear evidence of Jewish genes among descendants of southwestern Spanish Catholics.
- Among white Americans, evidence of African DNA is most common in the South.
- European genes appeared among Native Americans as early as ten thousand years ago.

An unprecedented look into America's genetic mosaic and how we perceive race, *DNA USA* challenges the very notion of what we think it means to be American.

The Violin

Born into a Jewish ghetto in Hungary, as a child, Elie Wiesel was sent to the Nazi concentration camps at Auschwitz and Buchenwald. This is his account of that atrocity: the ever-increasing horrors he endured, the loss of his family and his struggle to survive in a world that stripped him of humanity, dignity and faith. Describing in simple terms the tragic murder of a people from a survivor's perspective, *Night* is among the most personal, intimate and poignant of all accounts of the Holocaust. A compelling consideration of the darkest side of human nature and the enduring power of hope, it remains one of the most important works of the twentieth century. New translation by Marion Wiesel, with a new introduction by Elie Wiesel.

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