

The Perfect Predator A Scientists Race To Save Her Husband From A Deadly Superbug A Memoir

Dirt Is GoodThe Selfish GeneThe Demon in the FreezerSuperbugsNo Time to Lose: A Life in Pursuit of
Deadly VirusesThinking Like a PhageThe Shape of NightSuperbugSuperbugsThe Climate WarSecrets
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Dirt Is Good

What does it mean to live in a time when medical science can not only cure the human body but also reshape it? How should we as individuals and as a society respond to new drugs and genetic technologies? Sheila and David Rothman address these questions with a singular blend of history and analysis, taking us behind the scenes to explain how scientific research, medical practice, drug company policies, and a quest for peak performance combine to exaggerate potential benefits and minimize risks. They present a fascinating and factual story from the rise of estrogen and testosterone use in the 1920s and 1930s to the frenzy around liposuction and growth hormone to the latest research into the genetics of aging. The Rothmans reveal what happens when physicians view patients' unhappiness and dissatisfaction with their bodies—short stature, thunder thighs, aging—as though they were diseases to be treated. The Pursuit of Perfection takes us from the early days of endocrinology (the belief that you are your hormones) to today's frontier of genetic enhancements (the idea that you are your genes). It lays bare the always complicated and sometimes compromised positions of science, medicine, and commerce. This is the book to read before signing on for the latest medical fix.

The Selfish Gene

This lush book of photography represents National Geographic's Photo Ark, a major cross-platform initiative and lifelong project by photographer Joel Sartore to make portraits of the world's animals—especially those that are endangered. His powerful message, conveyed with humor, compassion, and art—to know these animals is to save them.Sartore intends to photograph every animal in captivity in the world. He is circling the globe, visiting zoos and wildlife rescue centers to create studio portraits of 12,000 species, with an emphasis on those facing extinction. He has photographed more than 6,000 already and now, thanks to a multi-year partnership with National Geographic, he may reach his goal. This book showcases his animal portraits- from tiny to mammoth, from the Florida grasshopper sparrow to the greater one-horned rhinoceros. Paired with the eloquent prose of veteran wildlife writer Douglas Chadwick, this book presents a thought-provoking argument for saving all the species of our planet.

The Demon in the Freezer

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

Superbugs

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From two of the world's top scientists and one of the world's top science writers (all parents), *Dirt Is Good* is a q&a-based guide to everything you need to know about kids & germs. "Is it OK for my child to eat dirt?" That's just one of the many questions authors Jack Gilbert and Rob Knight are bombarded with every week from parents all over the world. They've heard everything from "My two-year-old gets constant ear infections. Should I give her antibiotics? Or probiotics?" to "I heard that my son's asthma was caused by a lack of microbial exposure. Is this true, and if so what can I do about it now?" Google these questions, and you'll be overwhelmed with answers. The internet is rife with speculation and misinformation about the risks and benefits of what most parents think of as simply germs, but which scientists now call the microbiome: the combined activity of all the tiny organisms inside our bodies and the surrounding environment that have an enormous impact on our health and well-being. Who better to turn to for answers than Drs. Gilbert and Knight, two of the top scientists leading the investigation into the microbiome—an investigation that is producing fascinating discoveries and bringing answers to parents who want to do the best for their young children. *Dirt Is Good* is a comprehensive, authoritative, accessible guide you've been searching for.

No Time to Lose: A Life in Pursuit of Deadly Viruses

The Craft and Science of Coffee follows the coffee plant from its origins in East Africa to its current role as a global product that influences millions of lives through sustainable development, economics, and consumer desire. For most, coffee is a beloved beverage. However, for some it is also an object of scientific study, and for others it is approached as a craft, both building on skills and experience. By combining the research and insights of the scientific community and expertise of the crafts people, this unique book brings readers into a sustained and inclusive conversation, one where academic and industrial thought leaders, coffee farmers, and baristas are quoted, each informing and enriching each other. This unusual approach guides the reader on a journey from coffee farmer to roaster, market analyst to barista, in a style that is both rigorous and experience based, universally relevant and personally engaging. From on-farming processes to consumer benefits, the reader is given a deeper appreciation and understanding of coffee's complexity and is invited to form their own educated opinions on the ever changing situation, including potential routes to further shape the coffee future in a responsible manner. Presents a novel synthesis of coffee research and real-world experience that aids understanding, appreciation, and potential action. Includes contributions from a multitude of experts who address complex subjects with a conversational approach. Provides expert discourse on the coffee value chain, from agricultural and production practices, sustainability, post-harvest processing, and quality aspects to the economic analysis of the consumer value proposition. Engages with the key challenges of future coffee production and potential solutions.

Thinking Like a Phage

"Rich detail and vivid anecdotes of adventure. A treasure trove of exotic fact and hard thinking."—The New York Times Book Review, front page For millennia, lions, tigers, and their man-eating kin have kept our dark, scary forests dark and scary, and their predatory majesty has been the stuff of folklore. But by the year 2150 big predators may only exist on the other side of glass barriers and chain-link fences. Their gradual disappearance is changing the very nature of our existence. We no longer occupy an intermediate position on the food chain; instead we survey it invulnerably from above—so far above that we are in danger of forgetting that we even belong to an ecosystem. Casting his expert eye over the rapidly diminishing areas of wilderness where predators still reign, the award-winning author of *The Song of the Dodo* examines the fate of lions in India's Gir forest, of saltwater crocodiles in northern Australia, of brown bears in the mountains of Romania, and of Siberian tigers in the Russian Far East. In the poignant and troublesome ferocity of these embattled creatures, we recognize something primeval deep within us, something in danger of vanishing forever.

The Shape of Night

A microbiologist describes his adventure-filled career, discussing his time spent in Central Africa in the 1970s identifying the Ebola virus and his work there again in the 1980s as part of the area's first international AIDS efforts. 20,000 first printing.

Superbug

What is an effective scientist? One who is successful by quantifiable standards, with many publications, citations, and students supervised? Yes, but there is much more. Truly effective scientists need to have influence beyond academia, usefully applying and marketing their research to non-scientists. This book therefore takes an all-encompassing approach to improving the scientist's career. It begins by focusing on writing and publishing - a scientist's most important weapon in the academic arsenal. Part two covers the numerical and financial aspects of being an effective scientist, and Part three focuses on running a lab effectively. The book concludes by discussing the more entertaining and philosophical aspects of being an effective scientist. Little of this material is taught in university, but developing these skills is vital to maximize the chance of being effective. Written by a scientist for scientists, this practical and entertaining book is a must-read for every early career-scientist, regardless of specialty.

Superbugs

Caldecott Honor-winning team Steve Jenkins and Robin Page explore the astonishing lives of sharks in this brilliantly illustrated picture book. Perfect for shark week and all year round, this ode to the notorious ocean predator with over 400 species will blow you out of the water!

The Climate War

In a gripping, accessible narrative, a veteran science journalist lays out the shocking story of how the COVID-19 coronavirus pandemic happened and how to make sure this never happens again. Over the last 30 years of epidemics and pandemics, we learned nearly every lesson needed to stop this coronavirus outbreak in its tracks. We heeded almost none of them. The result is a pandemic on a scale never before seen in our lifetimes. In this captivating, authoritative, and eye-opening book, science journalist Debora MacKenzie lays out the full story of how and why it happened: the previous viruses that should have prepared us, the shocking public health failures that paved the way, the failure to contain the outbreak, and most importantly, what we must do to prevent future pandemics. Debora MacKenzie has been reporting on emerging diseases for more than three decades, and she draws on that experience to explain how COVID-19 went from a potentially manageable outbreak to a global pandemic. Offering a compelling history of the most significant recent outbreaks, including SARS, MERS, H1N1, Zika, and Ebola, she gives a crash course in Epidemiology 101--how viruses spread and how pandemics end--and outlines the lessons we failed to learn from each past crisis. In vivid detail, she takes us through the arrival and spread of COVID-19, making clear the steps that governments knew they could have taken to prevent or at least prepare for this. Looking forward, MacKenzie makes a bold, optimistic argument: this pandemic might finally galvanize the world to take viruses seriously. Fighting this pandemic and preventing the next one will take political action of all kinds, globally, from governments, the scientific community, and individuals--but it is possible. No one has yet brought together our knowledge of COVID-19 in a comprehensive, informative, and accessible way. But that story can already be told, and Debora MacKenzie's urgent telling is required reading for these times and beyond. It is too early to say where the COVID-19 pandemic will go, but it is past time to talk about what went wrong and how we can do better.

Secrets of Snakes

Phages are the most numerous life forms on Earth. Nevertheless, many people remain unaware of this dynamic, invisible world, and likewise of the challenges expertly met by every successful phage. This engaging book relates the ingenious tactics of 21 featured phages as they go about their viral work and replicate inside microbial cells.

Life in Our Phage World

One of New York Times' Twelve Books for Feminist Boys and Girls! This is the story of a woman who dared to dive, defy, discover, and inspire. This is the story of Shark Lady. One of the best science picture books for children, Shark Lady is a must for both teachers and parents alike! An Amazon Best Book of the Month Named a Best Children's Book of 2017 by Parents magazine Eugenie Clark fell in love with sharks from the first moment she saw them at the aquarium. She couldn't imagine anything more exciting than studying these graceful creatures. But Eugenie quickly discovered that many people believed sharks to be ugly and scary—and they didn't think women should be scientists. Determined to prove them wrong, Eugenie devoted her life to learning about sharks. After earning several college degrees and making countless discoveries, Eugenie wrote herself into the history of science, earning the nickname "Shark Lady." Through her accomplishments, she taught the world that sharks were to be admired rather than feared and that women can do anything they set their minds to. An inspiring story by critically acclaimed zoologist Jess Keating about finding the strength to discover truths that others aren't daring enough to see. Includes a timeline of Eugenie's life and many fin-tastic shark facts! The perfect choice for parents looking for: Books about sharks Inspiring nonfiction narrative books Role model books for girls and boys Kids STEM books

The Forgotten Cure

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. Strengthening Forensic Science in the United States gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

Gone

This myth-busting new addition to the critically acclaimed Scientists in the Field series by Sibert medal winning team Sy Montgomery and Nic Bishop is perfect for nonfiction readers looking for more female scientist narratives, or a fresh perspective on an underrepresented animal—Hyenas! Timely and inspiring, The Hyena Scientist sets the record straight about one of history's most hated and misunderstood

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mammals, while featuring the groundbreaking, pioneering research of a female scientist in a predominately male field in this offering by Sibert-winning duo Sy Montgomery and Nic Bishop. As a scientist studying one of the only mammalian societies led entirely by females, zoologist Kay Holecamp has made it her life's work to understand hyenas, the fascinating, complex creatures that are playful, social, and highly intelligent—almost nothing like the mangy monsters of pop culture lore.

The Shark Book

Antibiotics are powerful drugs that can prevent and treat infections, but they are becoming less effective as a result of drug resistance. Resistance develops because the bacteria that antibiotics target can evolve ways to defend themselves against these drugs. When antibiotics fail, there is very little else to prevent an infection from spreading. Unnecessary use of antibiotics in both humans and animals accelerates the evolution of drug-resistant bacteria, with potentially catastrophic personal and global consequences. Our best defenses against infectious disease could cease to work, surgical procedures would become deadly, and we might return to a world where even small cuts are life-threatening. The problem of drug resistance already kills over one million people across the world every year and has huge economic costs. Without action, this problem will become significantly worse. Following from their work on the Review on Antimicrobial Resistance, William Hall, Anthony McDonnell, and Jim O'Neill outline the major systematic failures that have led to this growing crisis. They also provide a set of solutions to tackle these global issues that governments, industry, and public health specialists can adopt. In addition to personal behavioral modifications, such as better handwashing regimens, *Superbugs* argues for mounting an offense against this threat through agricultural policy changes, an industrial research stimulus, and other broad-scale economic and social incentives.

Follow Your Gut

International Bestseller "An amazing, informative book that changes our perspective on medicine, microbes and our future." --Siddhartha Mukherjee, MD, New York Times bestselling author of *The Emperor of All Maladies* A New York Times bestselling author shares this exhilarating story of cutting-edge science and the race against the clock to find new treatments in the fight against the antibiotic-resistant bacteria known as superbugs. Physician, researcher, and ethics professor Matt McCarthy is on the front lines of a groundbreaking clinical trial testing a new antibiotic to fight lethal superbugs, bacteria that have built up resistance to the life-saving drugs in our rapidly dwindling arsenal. This trial serves as the backdrop for the compulsively readable *Superbugs*, and the results will impact nothing less than the future of humanity. Dr. McCarthy explores the history of bacteria and antibiotics, from Alexander Fleming's discovery of penicillin, to obscure sources of innovative new medicines (often found in soil samples), to the cutting-edge DNA manipulation known as CRISPR, bringing to light how we arrived at this juncture of both incredible breakthrough and extreme vulnerability. We also meet the patients whose lives are hanging in the balance, from Remy, a teenager with a dangerous and rare infection, to Donny, a retired New York City firefighter with a compromised immune system, and many more. The proverbial ticking clock will keep readers on the edge of their seats. Can Dr. McCarthy save the lives of his patients infected with the deadly bacteria, who have otherwise lost all hope?

The Pursuit of Perfection

"Just astonishing . . . Our natural navigational capacities are no match for those of the supernavigators in this eye-opening book."—Frans de Waal, *The New York Times Book Review* Publisher's note: *Supernavigators* was published in the UK under the title *Incredible Journeys*. Animals plainly know where they're going, but how they know has remained a stubborn mystery—until now. *Supernavigators*

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is a globe-trotting voyage of discovery alongside astounding animals of every stripe: dung beetles that steer by the Milky Way, box jellyfish that can see above the water (with a few of their twenty-four eyes), sea turtles that sense Earth's magnetic field, and many more. David Barrie consults animal behaviorists and Nobel Prize-winning scientists to catch us up on the cutting edge of animal intelligence—revealing these wonders in a whole new light.

The Effective Scientist

Albert Einstein's first wife, Mileva Einstein-Maric, was forgotten by history for decades, But when a trove of correspondence between them beginning in their student days at the Zurich Polytechnic was discovered in 1986, her story began to be told. Mileva was one of the few women of her era to pursue higher education in science. Her ambitions for a science career, however, suffered a series of setbacks, including an out-of-wedlock pregnancy by Einstein. Some of the tellers of the "Mileva Story" made startling claims: that she was a brilliant mathematician who surpassed her husband, and that she made uncredited contributions to his most celebrated papers in 1905, including his paper on special relativity. The authors of *Einstein's Wife* look at the actual evidence, and a chapter by Ruth Lewin Sime offers important historical context. The story they tell is that of a brave and determined young woman who struggled against a variety of obstacles at a time when science was not very welcoming to women. Book jacket.

Supernavigators

Now in paperback--the timely and terrifying investigation into the dark underworld of biological weapons from the #1 "New York Times" bestselling author of "The Hot Zone."

The Sparrow

B95 can feel it: a stirring in his bones and feathers. It's time. Today is the day he will once again cast himself into the air, spiral upward into the clouds, and bank into the wind. He wears a black band on his lower right leg and an orange flag on his upper left, bearing the laser inscription B95. Scientists call him the Moonbird because, in the course of his astoundingly long lifetime, this gritty, four-ounce marathoner has flown the distance to the moon—and halfway back! B95 is a robin-sized shorebird, a red knot of the subspecies *rufa*. Each February he joins a flock that lifts off from Tierra del Fuego, headed for breeding grounds in the Canadian Arctic, nine thousand miles away. Late in the summer, he begins the return journey. B95 can fly for days without eating or sleeping, but eventually he must descend to refuel and rest. However, recent changes at ancient refueling stations along his migratory circuit—changes caused mostly by human activity—have reduced the food available and made it harder for the birds to reach. And so, since 1995, when B95 was first captured and banded, the worldwide *rufa* population has collapsed by nearly 80 percent. Most perish somewhere along the great hemispheric circuit, but the Moonbird wings on. He has been seen as recently as November 2011, which makes him nearly twenty years old. Shaking their heads, scientists ask themselves: How can this one bird make it year after year when so many others fall? National Book Award-winning author Phillip Hoose takes us around the hemisphere with the world's most celebrated shorebird, showing the obstacles *rufa* red knots face, introducing a worldwide team of scientists and conservationists trying to save them, and offering insights about what we can do to help shorebirds before it's too late. With inspiring prose, thorough research, and stirring images, Hoose explores the tragedy of extinction through the triumph of a single bird. *Moonbird* is one The Washington Post's Best Kids Books of 2012. A Common Core Title.

COVID-19

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A visionary work that combines speculative fiction with deep philosophical inquiry, *The Sparrow* tells the story of a charismatic Jesuit priest and linguist, Emilio Sandoz, who leads a scientific mission entrusted with a profound task: to make first contact with intelligent extraterrestrial life. The mission begins in faith, hope, and beauty, but a series of small misunderstandings brings it to a catastrophic end. Praise for *The Sparrow* “A startling, engrossing, and moral work of fiction.”—*The New York Times* Book Review “Important novels leave deep cracks in our beliefs, our prejudices, and our blinders. *The Sparrow* is one of them.”—*Entertainment Weekly* “Powerful . . . *The Sparrow* tackles a difficult subject with grace and intelligence.”—*San Francisco Chronicle* “Provocative, challenging . . . recalls both Arthur C. Clarke and H. G. Wells, with a dash of Ray Bradbury for good measure.”—*The Dallas Morning News* “[Mary Doria] Russell shows herself to be a skillful storyteller who subtly and expertly builds suspense.”—*USA Today* From the Trade Paperback edition.

Félix d'Herelle and the Origins of Molecular Biology

In 1959, biologists Dmitri Belyaev and Lyudmila Trut set out to speed up thousands of years of evolution into a few decades. They started with a few dozen silver foxes from fox farms in the USSR and attempting to recreate the evolution of wolves into dogs in real time in order to witness the process of domestication. Within a decade the experiments had resulted in puppy-like foxes with floppy ears, piebald spots, and curly tails. Along with these physical changes came genetic and behavioral changes, as well. Dugatkin and Trut examine the adventure, science, politics, and love behind it all.

The Perfect Predator

We share the Earth with more than 10,000,000,000,000,000,000,000,000,000 phages. Everywhere they thrive, from well-fed guts to near-boiling acidic springs, from cryoconite holes to endolithic fissures. They travel from one microbial host to the next as virions, their genetic weapons packaged inside a protective protein shell. If you could lay all of these nanoscopic phage virions side-by-side, the line-up would stretch over 42 million light years. Through their daily shenanigans they kill or collaborate with their microbial hosts to spur microbial evolution and maintain ecosystem functioning. We have learned much about them since their discovery by Frederick Twort a century ago. They also taught us that DNA, not protein, is the hereditary material, unraveled the triplet genetic code, and offered their enzymes as indispensable tools for the molecular biology revolution. More contributions will be forthcoming since the vast majority of phages await discovery. Phage genomes harbor the world's largest cache of unexplored genetic diversity, and we now have the equipment needed to go prospecting. Although there are field guides to birds, insects, wild flowers, even Bacteria, there was no such handbook to guide the phage explorer. Forest Rohwer decided to correct this oversight, for novice and expert alike, and thus was born *Life in Our Phage World*. A diverse collection of 30 phages are featured. Each phage is characterized by its distinctive traits, including details about its genome, habitat, lifestyle, global range, and close relatives. The beauty of its intricate virion is captured in a pen-and-ink portrait by artist Benjamin Darby. Each phage also stars in a carefully researched action story relating how that phage encounters, exploits, kills, or otherwise manipulates its host. These behaviors are imaginatively illustrated by fine artist Leah L. Pantea. Eight researchers that work closely with phages also relate their experiences as inhabitants of the phage world. Rohwer has years of first-hand experience with the phage multitudes in ecosystems ranging from coral reefs to the human lung to arctic waters. He pioneered the key metagenomic methods now widely used to catalog and characterize Earth's microbial and viral life. Despite research advances, most people, many scientists included, remain unaware of the ongoing drama in our phage world. In anticipation of 2015, the centennial of phage discovery, Forest assembled a cadre of writers, artists, scientists, and a cartographer and set them to work. The result? This alluring field guide—a feast for the imagination and a celebration of phage diversity."

The Craft and Science of Coffee

A "fascinating and terrifying" memoir of one woman's extraordinary effort to save her husband's life (Scientific American) -- and the discovery of a forgotten cure that has the potential to save millions more. Epidemiologist Steffanie Strathdee and her husband, psychologist Tom Patterson, were vacationing in Egypt when Tom came down with a stomach bug. What at first seemed like a case of food poisoning quickly turned critical, and by the time Tom had been transferred via emergency medevac to the world-class medical center at UC San Diego, where both he and Steffanie worked, blood work revealed why modern medicine was failing: Tom was fighting one of the most dangerous, antibiotic-resistant bacteria in the world. Frantic, Steffanie combed through research old and new and came across phage therapy: the idea that the right virus, aka "the perfect predator," can kill even the most lethal bacteria. Phage treatment had fallen out of favor almost 100 years ago, after antibiotic use went mainstream. Now, with time running out, Steffanie appealed to phage researchers all over the world for help. She found allies at the FDA, researchers from Texas A&M, and a clandestine Navy biomedical center -- and together they resurrected a forgotten cure. A nail-biting medical mystery, *The Perfect Predator* is a story of love and survival against all odds, and the (re)discovery of a powerful new weapon in the global superbug crisis.

Sea Otter Heroes

In *The Climate War*, Eric Pooley--deputy editor of Bloomberg BusinessWeek--does for global warming what Bob Woodward did for presidents and Lawrence Wright did for terrorists. In this epic tale of an American civil war, Pooley takes us behind the scenes and into the hearts and minds of the most important players in the struggle to cap global warming pollution--a fight in which trillions of dollars and the fate of the planet are at stake. Why has it been so hard for America to come to grips with climate change? Why do so many people believe it isn't really happening? As President Obama's science advisor John Holdren has said, "We're driving in a car with bad brakes in a fog and heading for a cliff. We know for sure that cliff is out there. We just don't know exactly where it is. Prudence would suggest that we should start putting on the brakes." But powerful interests are threatened by the carbon cap that would speed the transition to a clean energy economy, and their agents have worked successfully to deny the problem and delay the solutions. To write this book, Pooley, the former managing editor of *Fortune* and chief political correspondent for *Time*, spent three years embedded with an extraordinary cast of characters: from the flamboyant head of one of the nation's largest coal-burning energy companies to the driven environmental leader who made common cause with him, from leading scientists warning of impending catastrophe to professional skeptics disputing almost every aspect of climate science, from radical activists chaining themselves to bulldozers to powerful lobbyists, media gurus, and advisors in Obama's West Wing--and, to top it off, unprecedented access to former Vice President Al Gore and his team of climate activists. Pooley captures the quiet determination and even heroism of climate campaigners who have dedicated their lives to an uphill battle that's still raging today. He asks whether we have what it takes to preserve our planet's habitability, and shows how America's climate war sends shock waves from Bali to Copenhagen. No other reporter enjoys such access to this cast of characters. No other book covers this terrain. From the trenches of a North Carolina power plant to the battlefields of Capitol Hill, Madison Avenue, and Wall Street, *The Climate War* is the essential read for anyone who wants to understand the players and politics behind the most important issue we face today.

Shark Lady

Epidemiologist Steffanie Strathdee and her husband, psychologist Tom Patterson, were vacationing in Egypt when Tom came down with a stomach bug. What at first seemed like a case of food poisoning

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The Puzzle Solver

Traces the story of bacteriophages from Paris, where they were discovered in 1917, through breakthroughs stemming from phage research, to today's resurgent research, spearheaded by biotech startups and physicians.

Monster of God: The Man-Eating Predator in the Jungles of History and the Mind

LURKING in our homes, hospitals, schools, and farms is a terrifying pathogen that is evolving faster than the medical community can track it or drug developers can create antibiotics to quell it. That pathogen is MRSA—methicillin-resistant *Staphylococcus aureus*—and *Superbug* is the first book to tell the story of its shocking spread and the alarming danger it poses to us all. Doctors long thought that MRSA was confined to hospitals and clinics, infecting almost exclusively those who were either already ill or old. But through remarkable reporting, including hundreds of interviews with the leading researchers and doctors tracking the deadly bacterium, acclaimed science journalist Maryn McKenna reveals the hidden history of MRSA's relentless advance—how it has overwhelmed hospitals, assaulted families, and infiltrated agriculture and livestock, moving inexorably into the food chain. Taking readers into the medical centers where frustrated physicians must discard drug after drug as they struggle to keep patients alive, she discloses an explosion of cases that demonstrate how MRSA is growing more virulent, while evolving resistance to antibiotics with astonishing speed. It may infect us at any time, no matter how healthy we are; it is carried by a stunning number of our household pets; and it has been detected in food animals from cows to chickens to pigs. With the sensitivity of a novelist, McKenna portrays the emotional and financial devastation endured by MRSA's victims, vividly describing the many stealthy ways in which the pathogen overtakes the body and the shock and grief of parents whose healthy children were felled by infection in just hours. Through dogged detective work, she discloses the unheard warnings that predicted the current crisis and lays bare the flaws that have allowed MRSA to rage out of control: misplaced government spending, inadequate public health surveillance, misguided agricultural practices, and vast overuse of the few precious drugs we have left. Empowering readers with the knowledge they need for self-defense, *Superbug* sounds an alarm: MRSA has evolved into a global emergency that touches almost every aspect of modern life. It is, as one deeply concerned researcher tells McKenna, "the biggest thing since AIDS."

How to Tame a Fox (and Build a Dog)

Linda Olson and her husband, Dave Hodgens, were young doctors whose story had all the makings of a fairy tale. But then, while they were vacationing in Germany, a train hit their van, shattering their lives—and Linda's body. When Linda saw Dave for the first time after losing her right arm and both of her legs, she told him she would understand if he left. His response: "I didn't marry your arms or your

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legs. If you can do it, I can do it.” In order to protect their loved ones, they decided to hide the truth about what really happened on those train tracks, and they kept their secret for thirty-five years. As a triple amputee, Linda learned to walk with prostheses and change diapers and insert IVs with one hand. She finished her residency while pregnant and living on her own. And she and Dave went on to pursue their dream careers, raise two children, and travel the world. Inspiring and deeply moving, *Gone* asks readers to find not only courage but also laughter in the unexpected challenges we all face. The day of the accident, no one envied Linda and Dave. Today, many do.

The Bird Way

Burmese pythons are native to Southeast Asia, so when one showed up dead along the side of a Florida highway in 1979, scientists wondered where it came from. No one knew the snakes had launched a full-scale invasion. Pet pythons that escaped or were released by their owners started breeding in the wild, and these enormous predators began eating every animal in their path. Today a group of scientists at the Conservancy of Southwest Florida is tracking Burmese pythons to find ways to stop their spread. Page Plus links lead to video clips and photos of the scientists working in the field. Delve into the science of pythons and their role as invasive predators.

The Hyena Scientist

Audisee® eBooks with Audio combine professional narration and sentence highlighting to engage reluctant readers! A Robert F. Sibert Informational Honor Book A Green Earth Book Award Winner This up-close look at a fascinating scientific discovery highlights the critical role predators such as sea otters play in keeping ecosystems healthy. In Elkhorn Slough, an inlet on the California coast, seagrass grows healthy and strong in the shallow water. This healthy seagrass baffled marine biologist Brent Hughes. The scientist expected this estuary to be overrun with algae, causing the seagrass to die. Why was the seagrass thriving? As Brent investigated, signs pointed to an unexpected player helping to keep the seagrass healthy: sea otters! What do these top predators have to do with an aquatic grass at the opposite end of the food chain? Brent's amazing discovery gave scientists insight into the delicate balance of ecosystems. Follow science in action as Brent conducts the research that led to this major discovery.

Einstein's Wife

From the New York Times bestselling author of *The Genius of Birds*, a radical investigation into the bird way of being, and the recent scientific research that is dramatically shifting our understanding of birds -- how they live and how they think. "There is the mammal way and there is the bird way." But the bird way is much more than a unique pattern of brain wiring, and lately, scientists have taken a new look at bird behaviors they have, for years, dismissed as anomalies or mysteries -- What they are finding is upending the traditional view of how birds conduct their lives, how they communicate, forage, court, breed, survive. They are also revealing the remarkable intelligence underlying these activities, abilities we once considered uniquely our own: deception, manipulation, cheating, kidnapping, infanticide, but also ingenious communication between species, cooperation, collaboration, altruism, culture, and play. Some of these extraordinary behaviors are biological conundrums that seem to push the edges of, well, birdness: a mother bird that kills her own infant sons, and another that selflessly tends to the young of other birds as if they were her own; a bird that collaborates in an extraordinary way with one species--ours--but parasitizes another in gruesome fashion; birds that give gifts and birds that steal; birds that dance or drum, that paint their creations or paint themselves; birds that build walls of sound to keep out intruders and birds that summon playmates with a special call--and may hold the secret to our own

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pendant for playfulness and the evolution of laughter. Drawing on personal observations, the latest science, and her bird-related travel around the world, from the tropical rainforests of eastern Australia and the remote woodlands of northern Japan, to the rolling hills of lower Austria and the islands of Alaska's Kachemak Bay, Jennifer Ackerman shows there is clearly no single bird way of being. In every respect, in plumage, form, song, flight, lifestyle, niche, and behavior, birds vary. It is what we love about them. As E.O Wilson once said, when you have seen one bird, you have not seen them all.

Moonbird

Fungi research and knowledge grew rapidly following recent advances in genetics and genomics. This book synthesizes new knowledge with existing information to stimulate new scientific questions and propel fungal scientists on to the next stages of research. This book is a comprehensive guide on fungi, environmental sensing, genetics, genomics, interactions with microbes, plants, insects, and humans, technological applications, and natural product development.

The Photo Ark

An electrifying memoir of one woman's extraordinary effort to save her husband's life-and the discovery of a forgotten cure that has the potential to save millions more. "A memoir that reads like a thriller." -New York Times Book Review "A fascinating and terrifying peek into the devastating outcomes of antibiotic misuse-and what happens when standard health care falls short." -Scientific American Epidemiologist Steffanie Strathdee and her husband, psychologist Tom Patterson, were vacationing in Egypt when Tom came down with a stomach bug. What at first seemed like a case of food poisoning quickly turned critical, and by the time Tom had been transferred via emergency medevac to the world-class medical center at UC San Diego, where both he and Steffanie worked, blood work revealed why modern medicine was failing: Tom was fighting one of the most dangerous, antibiotic-resistant bacteria in the world. Frantic, Steffanie combed through research old and new and came across phage therapy: the idea that the right virus, aka "the perfect predator," can kill even the most lethal bacteria. Phage treatment had fallen out of favor almost 100 years ago, after antibiotic use went mainstream. Now, with time running out, Steffanie appealed to phage researchers all over the world for help. She found allies at the FDA, researchers from Texas A&M, and a clandestine Navy biomedical center -- and together they resurrected a forgotten cure. A nail-biting medical mystery, *The Perfect Predator* is a story of love and survival against all odds, and the (re)discovery of a powerful new weapon in the global superbug crisis.

The Perfect Predator

Snakes inspire extreme reactions. Love or hate these limbless reptiles, almost everyone is fascinated by them. Although snakes are widespread and frequently encountered, they may be more misunderstood than any other group of animals. From giant rattlesnakes to mating dances, there are dozens of myths and misconceptions about snakes. In *Secrets of Snakes: The Science beyond the Myths*, wildlife biologist David Steen tackles the most frequently asked questions and clears up prevailing myths. In a conversational style with a bit of humor, Steen presents the relevant biology and natural history of snakes, making the latest scientific research accessible to a general audience. When addressing myths about snakes, he explains how researchers use the scientific method to explain which parts of the myth are biologically plausible and which are not. Steen also takes a close look at conventional wisdom and common advice about snakes. For example, people are told they can distinguish coral snakes from non-venomous mimics by remembering the rhyme, "red on black, friend of Jack, red on yellow, kill a fellow," but this tip is only relevant to coral snakes and two mimics living in the southeastern United States, and it does not always work with other species or in other countries. Enhanced by more than 100

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stunning color photographs and three original drawings, *Secrets of Snakes: The Science beyond the Myths* encourages readers to learn about the snakes around them and introduces them to how scientists use the scientific method and critical thinking to learn about the natural world. Number Sixty-one: W. L. Moody Jr. Natural History Series

The Perfect Predator

An electrifying memoir of one woman's extraordinary effort to save her husband's life—and the discovery of a forgotten cure that has the potential to save millions more. "A memoir that reads like a thriller." -New York Times Book Review "A fascinating and terrifying peek into the devastating outcomes of antibiotic misuse—and what happens when standard health care falls short." -Scientific American Epidemiologist Steffanie Strathdee and her husband, psychologist Tom Patterson, were vacationing in Egypt when Tom came down with a stomach bug. What at first seemed like a case of food poisoning quickly turned critical, and by the time Tom had been transferred via emergency medevac to the world-class medical center at UC San Diego, where both he and Steffanie worked, blood work revealed why modern medicine was failing: Tom was fighting one of the most dangerous, antibiotic-resistant bacteria in the world. Frantic, Steffanie combed through research old and new and came across phage therapy: the idea that the right virus, aka "the perfect predator," can kill even the most lethal bacteria. Phage treatment had fallen out of favor almost 100 years ago, after antibiotic use went mainstream. Now, with time running out, Steffanie appealed to phage researchers all over the world for help. She found allies at the FDA, researchers from Texas A&M, and a clandestine Navy biomedical center -- and together they resurrected a forgotten cure. A nail-biting medical mystery, *The Perfect Predator* is a story of love and survival against all odds, and the (re)discovery of a powerful new weapon in the global superbug crisis.

Strengthening Forensic Science in the United States

A self-taught scientist determined to bring science out of the laboratory and into the practical arena, French-Canadian Felix d'Herelle (1873-1949) made history in two different fields of biology. Not only was he first to demonstrate the use and application of bacteria for biological control of insect pests, he also became a seminal figure in the history of molecular biology. This engaging book is the first full biography of d'Herelle, a complex figure who emulated Louis Pasteur and influenced the course of twentieth-century biology, yet remained a controversial outsider to the scientific community. Drawing on family papers, archival sources, interviews, and d'Herelle's published and unpublished writings, Dr. William C. Summers tells the fascinating story of the scientist's life and the work that took him around the globe. In 1917, d'Herelle published the first paper describing the phenomenon of the bacteriophage and its biological nature. A series of more than 110 articles and 6 major books followed, in which d'Herelle established the foundation for the later work of the Phage Group in molecular biology. Yet d'Herelle sometimes inspired animosity in others—he was drummed out of the Pasteur Institute, he held only one brief permanent position in the scientific establishment (at Yale University from 1928 to 1933), and he was bewildered by the social nuances of the world of international science. His story is more than the biography of a single brilliant scientist; it is also a fascinating chapter in the history of biology.

The Perfect Predator

Allergies, asthma, obesity, acne: these are just a few of the conditions that may be caused—and someday cured—by the microscopic life inside us. The key is to understand how this groundbreaking science influences your health, mood, and more. In just the last few years, scientists have shown how the microscopic life within our bodies— particularly within our intestines—has an astonishing impact on our lives. Your health, mood, sleep patterns, eating preferences—even your likelihood of getting bitten by

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mosquitoes—can be traced in part to the tiny creatures that live on and inside of us. In *Follow Your Gut*, pioneering scientist Rob Knight pairs with award-winning science journalist Brendan Buhler to explain—with good humor and easy-to-grasp examples—why these new findings matter to everyone. They lead a detailed tour of the previously unseen world inside our bodies, calling out the diseases and conditions believed to be most directly impacted by them. With a practical eye toward deeper knowledge and better decisions, they also explore the known effects of antibiotics, probiotics, diet choice and even birth method on our children's lifelong health. Ultimately, this pioneering book explains how to learn about your own microbiome and take steps toward understanding and improving your health, using the latest research as a guide.

The Fungal Kingdom

A woman trying to outrun her past is drawn to a coastal village in Maine--and to a string of unsolved murders--in this novel of romance and psychological suspense from New York Times bestselling author Tess Gerritsen. "Suspenseful, sexy, and soulful."--J. R. Ward, bestselling author of the *Black Dagger Brotherhood* series After an unspeakable tragedy in Boston, Ava Collette flees to a remote village in Maine, where she rents an old house named Brodie's Watch. In that isolated seaside mansion, Ava finally feels at peace . . . until she glimpses the long-dead sea captain who still resides there. Rumor has it that Captain Jeremiah Brodie has haunted the house for more than a century. One night, Ava confronts the apparition, who feels all too real, and who welcomes her into his world--and into his arms. Even as Ava questions her own sanity, she eagerly looks forward to the captain's ghostly visits. But she soon learns that the house she loves comes with a terrible secret, a secret that those in the village don't want to reveal: Every woman who has ever lived in Brodie's Watch has also died there. Is the ghost of Captain Brodie responsible, or is a flesh-and-blood killer at work? A killer who is even now circling closer to Ava? Praise for *The Shape of Night* "Gerritsen is at her atmospheric best in this spine-tingling tale of a lone woman, an old house, and all the secrets everyone tries to hide."--Lisa Gardner, #1 New York Times bestselling author "With a twisty mix of dangerous passion, obsession, and suspense, Tess Gerritsen reinvents the Gothic novel, giving it a razor-sharp, modern edge."--Jayne Ann Krentz, New York Times bestselling author of *Untouchable* "Curl up in your favorite reading chair and let Tess Gerritsen whisk you away to a coastal town reminiscent of Daphne du Maurier's best settings. You are in for a dark and sexy night, and you will be up very late with Tess's twisted, haunting tale."--Iris Johansen, #1 New York Times bestselling author

Tracking Pythons

Based on a viral article, the gripping medical mystery story of Ron Davis, a world-class Stanford geneticist who has put his career on the line to find the cure for chronic fatigue syndrome, the disease killing his son. For the past six years, Whitney Dafoe has been confined to a bedroom in the back of his parents' home, unable to walk, to eat, to speak. The sound of music causes him pain. At one point, the formerly healthy, young, freelance photographer, faced starvation as his 6'3" frame withered to 115 pounds. In desperation, Whitney and his parents went from one specialist to another, and still no answers. Then, finally, a diagnosis: the mysterious disease myalgic encephalomyelitis or chronic fatigue syndrome (ME/CFS). Whitney's story is heartbreaking, but it's also one of redemption. It reaches far beyond just one family's harrowing tale. Today, ME/CFS affects between 1 and 2.5 million Americans--and 20 million people around the world. Those afflicted largely suffer in silence because the disease is little known and much misunderstood. The question lingers still whether it even exists outside the patient's mind. Often disbelieved, they're abandoned by family and friends. They lose their jobs, and battle with insurance companies over rising medical costs as the chronic disease continues on year after year. In one way, Whitney has been lucky. He could reach out to his father, a world renowned, scientist, for answers. This book is the story of one father's desperate hunt for the insidious illness that stole his

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son away. The Puzzle Solver follows Ron as he unravels the molecular trail within his own son's donated blood and genome, to begin to find answers. He confirms this is a biological disease and uncovers new possibilities for treatments and potentially a cure. At its heart, The Puzzle Solver is about more than just cutting edge research or a race to find the cure for ME/CFS--it's about the unbreakable bond between a father and his son, and the lengths to which a parent will go to save their child's life.

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