

Darwins Ghost The Origin Of Species Updated Steve Jones

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Then and NowDarwin's Second VoyageThe Evolution
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BarnacleThe Darwin ArchipelagoLife Concepts from
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On the Origin of Species

The Darwin Affair

Offers current biological research to explore the
qualities of maleness, looking at the role of the all-

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important Y chromosome, as well as social, environmental, behavioral, and cultural factors.

The "Origin" Then and Now

Blake's Therapy is a whirlwind ride through the desires of one man to find something real in a virtual world. After suffering a mental breakdown, Graham Blake checks into the Corporate Life Therapy Institute, where the self-assured, silver-tongued Dr. Carl Tolgate has prepared a strange, shocking, and erotic treatment. Now Blake must find out, before it is too late, who is controlling his life, his company's future, and his own heart. A work of intense psychological intrigue, Blake's Therapy holds a magnifying glass to one man's life as it unravels in a world of economic turmoil and spiritual crisis.

Darwin's Second Voyage

A compelling portrait of a unique moment in American history when the ideas of Charles Darwin reshaped American notions about nature, religion, science and race "A lively and informative history." - The New York Times Book Review Throughout its history America has been torn in two by debates over ideals and beliefs. Randall Fuller takes us back to one of those turning points, in 1860, with the story of the influence of Charles Darwin's just-published *On the Origin of Species* on five American intellectuals, including Bronson Alcott, Henry David Thoreau, the child welfare reformer Charles Loring Brace, and the abolitionist Franklin Sanborn. Each of these figures

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seized on the book's assertion of a common ancestry for all creatures as a powerful argument against slavery, one that helped provide scientific credibility to the cause of abolition. Darwin's depiction of constant struggle and endless competition described America on the brink of civil war. But some had difficulty aligning the new theory to their religious convictions and their faith in a higher power. Thoreau, perhaps the most profoundly affected all, absorbed Darwin's views into his mysterious final work on species migration and the interconnectedness of all living things. Creating a rich tableau of nineteenth-century American intellectual culture, as well as providing a fascinating biography of perhaps the single most important idea of that time, *The Book That Changed America* is also an account of issues and concerns still with us today, including racism and the enduring conflict between science and religion.

The Evolution of Beauty

The world's most revered and eloquent interpreter of evolutionary ideas offers here a work of explanatory force unprecedented in our time—a landmark publication, both for its historical sweep and for its scientific vision. With characteristic attention to detail, Stephen Jay Gould first describes the content and discusses the history and origins of the three core commitments of classical Darwinism: that natural selection works on organisms, not genes or species; that it is almost exclusively the mechanism of adaptive evolutionary change; and that these changes are incremental, not drastic. Next, he

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examines the three critiques that currently challenge this classic Darwinian edifice: that selection operates on multiple levels, from the gene to the group; that evolution proceeds by a variety of mechanisms, not just natural selection; and that causes operating at broader scales, including catastrophes, have figured prominently in the course of evolution. Then, in a stunning tour de force that will likely stimulate discussion and debate for decades, Gould proposes his own system for integrating these classical commitments and contemporary critiques into a new structure of evolutionary thought. In 2001 the Library of Congress named Stephen Jay Gould one of America's eighty-three Living Legends—people who embody the “quintessentially American ideal of individual creativity, conviction, dedication, and exuberance.” Each of these qualities finds full expression in this peerless work, the likes of which the scientific world has not seen—and may not see again—for well over a century.

The Selfish Gene

This book traces the history of life-concepts, with a focus on the vegetable souls of Aristotle, investigating how they were interpreted and eventually replaced by evolutionary biology. Philosophers have long struggled with the relationship between physics, physiology, and psychology, asking questions of organization, purpose, and agency. For two millennia, the vegetable soul, nutrition, and reproduction were commonly used to understand basic life and connect it to “higher” animal and vegetable life. Cartesian

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dualism and mechanism destroyed this bridge and left biology without an organizing principle until Darwin. Modern biology parallels Aristotelian vegetable life-concepts, but remains incompatible with the animal, rational, subjective, and spiritual life-concepts that developed through the centuries. Recent discoveries call for a second look at Aristotle's ideas - though not their medieval descendants. Life remains an active, chemical process whose cause, identity, and purpose is self-perpetuation.

Darwin and the Barnacle

The author reveals why Darwin waited two decades to release his controversial theories of natural selection and evolution, in a fascinating portrait of the turbulent world of Victorian biology. Reprint. 10,000 first printing.

The Darwin Archipelago

A Cambridge historian, Elizabeth Vogelsang, is found drowned, clutching a glass prism in her hand. The book she was writing about Isaac Newton's involvement with alchemy-the culmination of her lifelong obsession with the seventeenth century-remains unfinished. When her son, Cameron, asks his former lover, Lydia Brooke, to ghostwrite the missing final chapters of his mother's book, Lydia agrees and moves into Elizabeth's house-a studio in an orchard where the light moves restlessly across the walls. Soon Lydia discovers that the shadow of violence that has fallen across present-day

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Cambridge, which escalates to a series of murders, may have its origins in the troubling evidence that Elizabeth's research has unearthed. As Lydia becomes ensnared in a dangerous conspiracy that reawakens ghosts of the past, the seventeenth century slowly seeps into the twenty-first, with the city of Cambridge the bridge between them. Filled with evocative descriptions of Cambridge, past and present, Ghostwalk centers around a real historical mystery that Rebecca Stott has uncovered involving Newton's alchemy. In it, time and relationships are entangled—the present with the seventeenth century, and figures from the past with the love-torn twenty-first-century woman who is trying to discover their secrets. A stunningly original display of scholarship and imagination, and a gripping story of desire and obsession, Ghostwalk is a rare debut that will change the way most of us think about scientific innovation, the force of history, and time itself.

Life Concepts from Aristotle to Darwin

Presents Darwin's masterwork on evolution with extensive annotations by an experienced field biologist.

On the Origin of the Species and The Voyage of the Beagle

"Introducing Genetics" takes readers on a journey through this new science to the discovery of DNA and the heart of the human gene map. In everyday life, many of us increasingly have to make moral decisions

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where genetics plays a part. This book gives us the information to do so.

Darwin's Ghosts

A radical reappraisal of Charles Darwin from the bestselling author of *Victoria: A Life*. With the publication of *On the Origin of Species*, Charles Darwin—hailed as the man who "discovered evolution"—was propelled into the pantheon of great scientific thinkers, alongside Galileo, Copernicus, and Newton. Eminent writer A. N. Wilson challenges this long-held assumption. Contextualizing Darwin and his ideas, he offers a groundbreaking critical look at this revered figure in modern science. In this beautifully written, deeply erudite portrait, Wilson argues that Darwin was not an original scientific thinker, but a ruthless and determined self-promoter who did not credit the many great sages whose ideas he advanced in his book. Furthermore, Wilson contends that religion and Darwinism have much more in common than it would seem, for the acceptance of Darwin's theory involves a pretty significant leap of faith. Armed with an extraordinary breadth of knowledge, Wilson explores how Darwin and his theory were very much a product of their place and time. The "Survival of the Fittest" was really the Survival of Middle Class families like the Darwins—members of a relatively new economic strata who benefited from the rising Industrial Revolution at the expense of the working classes. Following Darwin's theory, the wretched state of the poor was an outcome of nature, not the greed and

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neglect of the moneyed classes. In a paradigm-shifting conclusion, Wilson suggests that it remains to be seen, as this class dies out, whether the Darwinian idea will survive, or whether it, like other Victorian fads, will become a footnote in our intellectual history. Brilliant, daring, and ambitious, Charles Darwin explores this legendary man as never before, and challenges us to reconsider our understanding of both Darwin and modern science itself.

Y

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

The Structure of Evolutionary Theory

A modern geneticist revisits Darwin's classic work to offer contemporary examples and modern research that confirm the book's conclusions on evolution.

Icons of Evolution

The Evolution of Everything

In a stimulating interchange between feminist studies and biology, Banu Subramaniam explores how her dissertation on flower color variation in morning glories launched her on an intellectual odyssey that engaged the feminist studies of sciences in the experimental practices of science by tracing the central and critical idea of variation in biology. As she

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shows, the histories of eugenics and genetics and their impact on the metaphorical understandings of difference and diversity that permeate common understandings of differences among people exist in contexts that seem distant from the so-called objective hard sciences. Journeying into areas that range from the social history of plants to speculative fiction, Subramaniam uncovers key relationships between the life sciences, women's studies, evolutionary and invasive biology, and the history of ecology, and how ideas of diversity and difference emerged and persist in each field.

Ghostwalk

The New York Times bestselling author of *The Rational Optimist* and *Genome* returns with a fascinating argument for evolution that definitively dispels a dangerous, widespread myth: that we can command and control our world. Human society evolves. Change in technology, language, morality, and society is incremental, inexorable, gradual, and spontaneous. It follows a narrative, going from one stage to the next; it creeps rather than jumps; it has its own spontaneous momentum rather than being driven from outside; it has no goal or end in mind; and it largely happens by trial and error—a version of natural selection. Much of the human world is the result of human action but not of human design: it emerges from the interactions of millions, not from the plans of a few. Drawing on fascinating evidence from science, economics, history, politics, and philosophy, Matt Ridley demolishes conventional

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assumptions that the great events and trends of our day are dictated by those on high, whether in government, business, academia, or organized religion. On the contrary, our most important achievements develop from the bottom up. Just as skeins of geese form Vs in the sky without meaning to and termites build mud cathedrals without architects, so brains take shape without brain-makers, learning happens without teaching, and morality changes for no reason other than the prevailing fashion. Although we neglect, defy, and ignore them, bottom-up trends shape the world. The Industrial Revolution, cell phones, the rise of Asia, and the Internet were never planned; they happened. Languages emerged and evolved by a form of natural selection, as did common law. Torture, racism, slavery, and pedophilia—all once widely regarded as acceptable—are now seen as immoral despite the decline of religion in recent decades. In this wide-ranging and erudite book, Ridley brilliantly makes the case for evolution, rather than design, as the force that has shaped much of our culture, our technology, our minds, and that even now is shaping our future. As compelling as it is controversial, as authoritative as it is ambitious, Ridley's deeply thought-provoking book will change the way we think about the world and how it works.

The Autobiography of Charles Darwin

Everything you were taught about evolution is wrong.

The Kingdom of Speech

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The surprising and sometimes shocking history of the scientific innovations in Paris during the French Revolution, by the author of Darwin's Ghost. Paris at the time of the French Revolution was the world capital of science. Its scholars laid the foundations of today's physics, chemistry and biology. They were true revolutionaries: agents of an upheaval both of understanding and of politics. The city was saturated in scientists; many had an astonishing breadth of talents. The Minister of Finance just before the upheaval did research on crystals and the spread of animal disease. After it, Paris's first mayor was an astronomer, the general who fought off invaders was a mathematician while Marat, a major figure in the Terror, saw himself as a leading physicist. Paris in the century around 1789 saw the first lightning conductor, the first flight, the first estimate of the speed of light and the invention of the tin can and the stethoscope. The theory of evolution came into being. Perhaps the greatest Revolutionary scientist of all, Antoine Lavoisier, founded modern chemistry and physiology, transformed French farming, and much improved gunpowder manufacture. His political activities brought him a fortune, but in the end led to his execution. The judge who sentenced him—and many other researchers— to death claimed that "the Revolution has no need for geniuses." In this enthralling and dazzling book, acclaimed science writer Steve Jones shows how wrong this was and takes a new look at Paris, its history, and its science, to give the reader dazzling new insight into the City of Light.

Darwin's Apostles

From 1831-1836, Charles Darwin traveled aboard the Beagle to South America and around the world as a gentleman's companion before returning to England. He never traveled again. Darwin began his Beagle voyage without an appreciation of the planet's age or of life's ability to evolve. These facts he embraced later on the trip and after returning home. But what if after writing *The Origin of Species*, Darwin had the chance to take a second oceanic voyage? - this time bringing along his wife and children and carrying molecular biology in his back pocket. What a magnificent second voyage that would be. This book gathers together lessons of evolution seen through the lens of international travel and undergraduate education during a Semester at Sea voyage. Presented in the style of an "evolutionary devotional," the author weaves together currents and continents with metaphors ranging from Russian nesting dolls to Nazi death camps, gas masks, mummies, Moroccan bedbugs, Monet's paintings, Charles Atlas, drunken students, mythological trees, menstrual blood, and Ebola virus (just to name a few); all the while celebrating one of the greatest ideas of all time: evolution by natural selection.

The Parasitic Mind

The "Origin" Then and Now is a unique guide to Darwin's masterwork, making it accessible to a much wider audience by deconstructing and reorganizing the Origin in a way that allows for a clear explanation

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of its key concepts. The "Origin" Then and Now is an indispensable primer for anyone seeking to understand Darwin's Origin of Species and the ways it has shaped the modern study of evolution.

Charles Darwin

The Origin of Species by Means of Natural Selection

“Intellectually stimulating and viscerally exciting, The Darwin Affair is breathtaking from start to stop.”
—The Wall Street Journal Get ready for one of the most inventive and entertaining novels of 2019—an edge-of-your-seat Victorian-era thriller, where the controversial publication *On the Origin of Species* sets off a string of unspeakable crimes. London, June 1860: When an assassination attempt is made on Queen Victoria, and a petty thief is gruesomely murdered moments later—and only a block away—Chief Detective Inspector Charles Field quickly surmises that these crimes are connected to an even more sinister plot. Was Victoria really the assassin’s target? Are those closest to the Crown hiding something? And who is the shadowy figure witnesses describe as having lifeless, coal-black eyes? Soon, Field’s investigation exposes a shocking conspiracy in which the publication of Charles Darwin’s controversial *On the Origin of Species* sets off a string of murders, arson, kidnapping, and the pursuit of a madman named the Chorister. As the investigation takes Field from the dangerous alleyways of London

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to the hallowed halls of Oxford, the list of possible conspirators grows, and the body count escalates. And as he edges closer to the Chorister, he uncovers dark secrets that were meant to remain forever hidden. Tim Mason has created a rousing page-turner that both Charles Dickens and Sir Arthur Conan Doyle would relish and envy.

A Natural History of Ghosts

A natural history of the supernatural from Roger Clarke, lifelong investigator into England's creepiest real-life ghost stories 'Is there anybody out there?' No matter how rationally we order our lives, few of us are completely immune to the suggestion of the uncanny and the fear of the dark. The subject of whether ghosts exist has fascinated some of the finest minds in history and it remains a subject of overwhelming interest today. This is the first comprehensive, authoritative and readable history of the evolution of the ghost in the west, examining as every good natural history should, the behaviour of the subject in its preferred environment: the stories we tell each other. What explains sightings of ghosts? Why do they fascinate us? What exactly did the haunted see? What did they believe? And what proof is there? Taking us through the key hauntings that have obsessed the world from the poltergeist of Cock Lane through the true events that inspired *The Turn of the Screw* and the dark events of Borley Rectory right up to the present day, Roger Clarke unfolds a story of class conflict, charlatans and true believers. His surprising castlist ranges from Samuel Johnson to John Wesley,

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and from Harry Houdini to Adolf Hitler. Inspired by a childhood spent in two haunted houses, Roger Clarke has spent much of his life trying to see a ghost. Written as grippingly as the best ghost fiction, A Natural History of Ghosts takes us on an unforgettable hunt through the most haunted places of the last five hundred years and our longing to believe.

Ghost Hunters

In his new book, Steve Jones takes on the challenge of going back to the book of the millennium, Charles Darwin's *The Origin of Species*. Before *The Origin*, biology was a set of unconnected facts. Darwin made it into a science, linked by the theory of evolution, the grammar of the living world. It reveals ties between cancer and the genetics of fish, between brewing and inherited disease, between the sex lives of crocodiles and the politics of Brazil. Darwin used the biology of the nineteenth century to prove his case. Now, that science has been revolutionized and his case can be reargued using the twentieth century's astonishing advances. From AIDS to dinosaurs, from conservation to cloned sheep, bursting with anecdotes, jokes and irresistible facts, *Almost Like a Whale* is a popular account of the science that makes biology make sense. It will catch the millennial mood and tell all those for whom Darwin is merely a familiar name what he really meant. It exposes the Darwinian delusions which try (and fail) to explain human behaviour in evolutionary terms, and, while giving an up-to-date account of our own past, shows how humans are the first species to step beyond the

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constraints of biology.

Darwin's Ghosts

From 1831-1836 Charles Darwin embarked on a journey aboard the H.M.S. Beagle that eventually led to him to the famous conclusions he drew in *Origins of Species by Means of Natural Selection*. As the ship's naturalist, he made exhaustive observations of the geology and natural history of the region and collected numerous samples. *The Voyage of the Beagle* is an account of his activities as well as of his hypotheses on certain scientific phenomena. *The Origin of Species* revolutionized natural science. It introduces the concepts of adaptation and natural selection, and explores the topic of evolution, which altered our understanding of the world.

Blake's Therapy

Charles Darwin is of course best known for *The Voyage of the Beagle* and *The Origin of Species*. But he produced many other books over his long career, exploring specific aspects of the theory of evolution by natural selection in greater depth. The eminent evolutionary biologist Steve Jones uses these lesser-known works as springboards to examine how their essential ideas have generated whole fields of modern biology. *Earthworms* helped found modern soil science, *Expression of the Emotions* helped found comparative psychology, and *Self-Fertilization and Forms of Flowers* were important early works on the origin of sex. Through this delightful introduction to

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Darwin's oeuvre, one begins to see Darwin's role in biology as resembling Einstein's in physics: he didn't have one brilliant idea but many and in fact made some seminal contribution to practically every field of evolutionary study. Though these lesser-known works may seem disconnected, Jones points out that they all share a common theme: the power of small means over time to produce gigantic ends. Called a "world of wonders" by the Times of London, *The Darwin Archipelago* will expand any reader's view of Darwin's genius and will demonstrate how all of biology, like life itself, descends from a common ancestor.

Almost Like a Whale

From the author of *Death and the Maiden* and other works that explore relations of power in the postcolonial world comes the story of a man whose distant past comes to haunt him. Is the sordid story behind human zoos that flourished in Europe in the nineteenth century connected somehow to a boy's life a hundred years later? On Fitzroy Foster's fourteenth birthday on September 11, 1981, he receives an unexpected and unwelcome gift: when his father snaps his picture with a Polaroid, another person's image appears in the photo. Fitzroy and his childhood sweetheart, Cam, set out on a decade-long journey in search of this stranger's identity—and to reinstate his own—across seas and continents, into the far past and the evil and good that glint in the eyes of the elusive visitor. Seamlessly weaving together fact and fiction, *Darwin's Ghosts* holds up a different light to Conrad's "The horror! The horror!" and a different

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kind of answer to the urgent questions, Who are we? And what can we do about it?

Why Darwin Matters

The maestro storyteller and reporter provocatively argues that what we think we know about speech and human evolution is wrong. "A whooping, joy-filled and hyperbolic raid on, of all things, the theory of evolution." (Dwight Garner, New York Times) Tom Wolfe, whose legend began in journalism, takes us on an eye-opening journey that is sure to arouse widespread debate. THE KINGDOM OF SPEECH is a captivating, paradigm-shifting argument that speech--not evolution--is responsible for humanity's complex societies and achievements. From Alfred Russel Wallace, the Englishman who beat Darwin to the theory of natural selection but later renounced it, and through the controversial work of modern-day anthropologist Daniel Everett, who defies the current wisdom that language is hard-wired in humans, Wolfe examines the solemn, long-faced, laugh-out-loud zig-zags of Darwinism, old and Neo, and finds it irrelevant here in the Kingdom of Speech.

On the Origin of Species

An electrifying account of the extraordinary untold history behind Darwin's theory of evolution

The Variation of Animals and Plants Under Domestication

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A creationist-turned-scientist demonstrates the facts of evolution and exposes Intelligent Design's real agenda. Science is on the defensive. Half of Americans reject the theory of evolution and "Intelligent Design" campaigns are gaining ground. Classroom by classroom, creationism is overthrowing biology. In *Why Darwin Matters*, bestselling author Michael Shermer explains how the newest brand of creationism appeals to our predisposition to look for a designer behind life's complexity. Shermer decodes the scientific evidence to show that evolution is not "just a theory" and illustrates how it achieves the design of life through the bottom-up process of natural selection. Shermer, once an evangelical Christian and a creationist, argues that Intelligent Design proponents are invoking a combination of bad science, political antipathy, and flawed theology. He refutes their pseudoscientific arguments and then demonstrates why conservatives and people of faith can and should embrace evolution. He then appraises the evolutionary questions that truly need to be settled, building a powerful argument for science itself. Cutting the politics away from the facts, *Why Darwin Matters* is an incisive examination of what is at stake in the debate over evolution.

The Annotated Origin

"Read this book, strengthen your resolve, and help us all return to reason." —JORDAN PETERSON The West's commitment to freedom, reason, and true liberalism have become endangered by a series of viral forces in our society today. Renowned host of the popular

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YouTube show “The SAAD Truth”, Dr. Gad Saad exposes how an epidemic of idea pathogens are spreading like a virus and killing common sense in the West. Serving as a powerful follow-up to Jordan Peterson’s book 12 Rules for Life Dr. Saad unpacks what is really happening in progressive safe zones, why we need to be paying more attention to these trends, and what we must do to stop the spread of dangerous thinking. A professor at Concordia University who has witnessed this troubling epidemic first-hand, Dr. Saad dissects a multitude of these concerning forces (corrupt thought patterns, belief systems, attitudes, etc.) that have given rise to a stifling political correctness in our society and how these have created serious consequences that must be remedied-before it’s too late.

Darwin's Ghost

A FINALIST FOR THE PULITZER PRIZE NAMED A BEST BOOK OF THE YEAR BY THE NEW YORK TIMES BOOK REVIEW, SMITHSONIAN, AND WALL STREET JOURNAL A major reimaging of how evolutionary forces work, revealing how mating preferences—what Darwin termed “the taste for the beautiful”—create the extraordinary range of ornament in the animal world. In the great halls of science, dogma holds that Darwin's theory of natural selection explains every branch on the tree of life: which species thrive, which wither away to extinction, and what features each evolves. But can adaptation by natural selection really account for everything we see in nature? Yale University ornithologist Richard Prum—reviving

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Darwin's own views—thinks not. Deep in tropical jungles around the world are birds with a dizzying array of appearances and mating displays: Club-winged Manakins who sing with their wings, Great Argus Pheasants who dazzle prospective mates with a four-foot-wide cone of feathers covered in golden 3D spheres, Red-capped Manakins who moonwalk. In thirty years of fieldwork, Prum has seen numerous display traits that seem disconnected from, if not outright contrary to, selection for individual survival. To explain this, he dusts off Darwin's long-neglected theory of sexual selection in which the act of choosing a mate for purely aesthetic reasons—for the mere pleasure of it—is an independent engine of evolutionary change. Mate choice can drive ornamental traits from the constraints of adaptive evolution, allowing them to grow ever more elaborate. It also sets the stakes for sexual conflict, in which the sexual autonomy of the female evolves in response to male sexual control. Most crucially, this framework provides important insights into the evolution of human sexuality, particularly the ways in which female preferences have changed male bodies, and even maleness itself, through evolutionary time. *The Evolution of Beauty* presents a unique scientific vision for how nature's splendor contributes to a more complete understanding of evolution and of ourselves.

Ghost Stories for Darwin

Darwin's *On the Origin of Species* stands as a cornerstone of modern biology. Unfortunately, many

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readers of this important work have difficulty following Darwin's arguments due to the nature of his writing and to the mass of evidence included in the work. Instant Origin is designed to help the reader follow Darwin's thesis by focusing on the major points and important evidence. It also illustrates why Darwin's ideas still hold such sway and why Darwin is considered as important to biology as Einstein is to physics.

The Book That Changed America

The Pulitzer Prize-winning author of *The Poison Squad* and *The Poisoner's Handbook* tells the amazing story of William James's quest for empirical evidence of the spirit world. What if a world-renowned philosopher and professor of psychiatry at Harvard suddenly announced he believed in ghosts? At the close of the nineteenth century, the illustrious William James led a determined scientific investigation into "unexplainable" incidences of clairvoyance and ghostly visitations. James and a small group of eminent scientists staked their reputations, their careers, even their sanity on one of the most extraordinary quests ever undertaken: to empirically prove the existence of ghosts, spirits, and psychic phenomena. What they pursued—and what they found—raises questions as fascinating today as they were then.

Introducing Genetics

When Darwin finally published *The Origin of Species*

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in 1859, there was no guarantee that the grand theory of natural selection would become one of the most valuable ideas impacting biology and our modernity. It was so controversial that some disapproving scientists, many in the Church, and powerful others worked to stop it from becoming known and accepted. This is the story of Darwin, his life, times, and some of the brave scientists who supported and advocated for him at the birth of the scientific revolution.

Darwin's Spectre

A NEW YORK TIMES NOTABLE BOOK “[An] extraordinarily wide-ranging and engaging book [about] the men who shaped the work of Charles Darwin . . . a book that enriches our understanding of how the struggle to think new thoughts is shared across time and space and people.”—The Sunday Telegraph (London) Soon after the publication of *On the Origin of Species*, Charles Darwin received an unsettling letter that accused him of taking credit for a theory that had already been discovered by others. Realizing his error of omission, Darwin tried to trace all of the natural philosophers who had laid the groundwork for his theory, but he found that history had already forgotten many of them. Rebecca Stott goes in search of these ghosts, telling the epic story of the discovery of evolution and natural selection from Aristotle to the ninth-century Arab writer Al-Jahiz to Leonardo da Vinci to the brilliant naturalists of the Jardin des Plantes to Alfred Wallace and Erasmus Darwin, and finally to Charles Darwin himself.

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Evolution was not discovered single-handedly. It was an idea that was advanced over centuries by daring individuals across the globe who had the imagination to speculate on nature's extraordinary ways—and the courage to articulate such speculations at a time when to do so was often considered heresy. Praise for Darwin's Ghosts “Absorbing . . . Stott captures the breathless excitement of an investigation on the cusp of the unknown. . . . A lively, original book.”—The New York Times Book Review “Stott's research is broad and unerring; her book is wonderful. . . . An exhilarating romp through 2,000 years of fascinating scientific history.”—Nature “Stott brings Darwin himself to life. . . . [She] writes with a novelist's flair. . . . Darwin and the 'ghosts' so richly described in Ms. Stott's enjoyable book are the descendants of Aristotle and Bacon and the ancestors of today's scientists.”—The Wall Street Journal “Riveting . . . Stott has done a wonderful job in showing just how many extraordinary people had speculated on where we came from before the great theorist dispelled all doubts.”—The Guardian (U.K.)

Darwin's Ghosts

An “arresting” and deeply personal portrait that “confront[s] the touchy subject of Darwin and race head on” (The New York Times Book Review). It's difficult to overstate the profound risk Charles Darwin took in publishing his theory of evolution. How and why would a quiet, respectable gentleman, a pillar of his parish, produce one of the most radical ideas in the history of human thought? Drawing on a wealth of

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manuscripts, family letters, diaries, and even ships' logs, Adrian Desmond and James Moore have restored the moral missing link to the story of Charles Darwin's historic achievement. Nineteenth-century apologists for slavery argued that blacks and whites had originated as separate species, with whites created superior. Darwin, however, believed that the races belonged to the same human family. Slavery was therefore a sin, and abolishing it became Darwin's sacred cause. His theory of evolution gave a common ancestor not only to all races, but to all biological life. This "masterful" book restores the missing moral core of Darwin's evolutionary universe, providing a completely new account of how he came to his shattering theories about human origins (Publishers Weekly, starred review). It will revolutionize your view of the great naturalist. "An illuminating new book." —Smithsonian "Compelling . . . Desmond and Moore aptly describe Darwin's interaction with some of the thorniest social and political issues of the day." —Wired "This exciting book is sure to create a stir." —Janet Browne, Aramont Professor of the History of Science, Harvard University, and author of *Charles Darwin: Voyaging*

Revolutionary Science: Transformation and Turmoil in the Age of the Guillotine

A new, deluxe hardcover edition of one of the most important scientific works ever written In December 1831, Charles Darwin boarded the HMS Beagle, accompanying her crew on a five-year journey that crossed the Atlantic Ocean to survey the coasts of

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South America. As the expedition's geologist and naturalist, Darwin collected evidence from the Galapagos Islands and other locations which prompted him to speculate that species evolve over generations through a process of natural selection. In 1859, Darwin published *On the Origin of Species*, a work of scientific literature considered to be the foundation of evolutionary biology. His revolutionary work presented evidence from the Beagle expedition as well as from years of subsequent research and experimentation. Written for non-specialists, Darwin's book gained widespread interest from the scientific community, religious leaders, politicians and the general public. The theory Darwin presented in his book quickly became the subject of heated debate and discussion. Now accepted by the scientific community, Darwin's concepts of evolutionary adaptation via natural selection are central to modern evolutionary theory and form the foundation of modern life sciences. Perhaps the most transformative scientific volume ever published, this volume of the first edition of *On the Origin of Species: Outlines Darwin's ideas, scientific influences and the core of his theory Details natural selection and address possible objections to the theory Examines the fossil record and biogeography to support evolutionary adaptation Features a "Recapitulation and Conclusion" which reviews key concepts and considers the future relevance of Darwin's theory* *On the Origin of Species: The Science Classic* is an important addition to the bestselling Capstone Classics series edited by Tom Butler-Bowdon. It includes an insightful Introduction from leading Darwin scholar Dr John van Wyhe of the University of

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Singapore, which presents new research and an offers an original perspective on Darwin and his famous work. This high-quality, hardcover volume is a must-have for readers interested in science and scientific literature, particularly evolutionary theory and life sciences.

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"green" revolution. Evolution and human psychology. These subjects make today's newspaper headlines. Yet much of the science underlying these topics stems from a book published nearly 140 years ago--Charles Darwin's *On the Origin of Species*. Far from an antique idea restricted to the nineteenth century, the theory of evolution is one of the most potent concepts in all of modern science. In *Darwin's Spectre*, Michael Rose provides the general reader with an introduction to the theory of evolution: its beginning with Darwin, its key concepts, and how it may affect us in the future. First comes a brief biographical sketch of Darwin. Next, Rose gives a primer on the three most important concepts in evolutionary theory--variation, selection, and adaptation. With a firm grasp of these concepts, the reader is ready to look at modern applications of evolutionary theory. Discussing agriculture, Rose shows how even before Darwin farmers and ranchers unknowingly experimented with evolution. Medical research, however, has ignored Darwin's lessons until recently, with potentially grave consequences. Finally, evolution supplies important new vantage points on human nature. If humans weren't created by deities, then our nature may be determined more by evolution than we have understood. Or it may not be. In this question, as in many others, the Darwinian perspective is one of the most important for understanding human affairs in the modern world. *Darwin's Spectre* explains how evolutionary biology has been used to support both valuable applied research, particularly in agriculture, and truly frightening objectives, such as Nazi eugenics. Darwin's legacy has been a comfort and a scourge.

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