

## Access Free Darwin Presents His Case Chapter 15 3

# Darwin Presents His Case Chapter 15 3

Everything you were taught  
about evolution is wrong.  
How did life evolve on Earth?

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The answer to this question can help us understand our past and prepare for our future. Although evolution provides credible and reliable answers, polls show that many people turn away from science, seeking other

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explanations with which they are more comfortable. In the book *Science, Evolution, and Creationism*, a group of experts assembled by the National Academy of Sciences and the Institute of Medicine explain the

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fundamental methods of science, document the overwhelming evidence in support of biological evolution, and evaluate the alternative perspectives offered by advocates of various kinds of creationism, including "intelligent

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design." The book explores the many fascinating inquiries being pursued that put the science of evolution to work in preventing and treating human disease, developing new agricultural products, and fostering industrial

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innovations. The book also presents the scientific and legal reasons for not teaching creationist ideas in public school science classes. Mindful of school board battles and recent court decisions, Science,

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Evolution, and Creationism shows that science and religion should be viewed as different ways of understanding the world rather than as frameworks that are in conflict with each other and that the evidence for

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evolution can be fully compatible with religious faith. For educators, students, teachers, community leaders, legislators, policy makers, and parents who seek to understand the basis of evolutionary science, this



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publication will be an essential resource.

Citing an 1859 letter that accused Charles Darwin of failing to acknowledge his scientific predecessors, a chronicle of the collective history

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of evolution dedicates each chapter to an evolutionary thinker, from Aristotle and da Vinci to Denis Diderot to the naturalists of the Jardin de Plantes. 20,000 first printing. This book proposes a new way

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to think about evolution. The author carefully brings together evidence from diverse fields of science. In the process, he bridges the gaps between many different--and usually seen as conflicting--ideas to present one

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integrative theory named ONCE, which stands for Organic Nonoptimal Constrained Evolution. The author argues that evolution is mainly driven by the behavioral choices and persistence of organisms

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themselves, in a process in which Darwinian natural selection is mainly a secondary--but still crucial--evolutionary player. Within ONCE, evolution is therefore generally made of

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mistakes and mismatches and trial-and-error situations, and is not a process where organisms engage in an incessant, suffocating struggle in which they can't thrive if they are not optimally adapted to their

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habitats and the external environment. Therefore, this unifying view incorporates a more comprehensive view of the diversity and complexity of life by stressing that organisms are not merely passive evolutionary

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players under the rule of external factors. This insightful and well-reasoned argument is based on numerous fascinating case studies from a wide range of organisms, including bacteria, plants, insects and diverse



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examples from the evolution of our own species. The book has an appeal to researchers, students, teachers, and those with an interest in the history and philosophy of science, as well as to the broader public, as it brings

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life back into biology by emphasizing that organisms, including humans, are the key active players in evolution and thus in the future of life on this wonderful planet.

Evolution Is a Myth. Darwin

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Admits Evolution Theory Is Not  
Supported by the Evidence.

Why Darwin Matters

Darwin's Ghosts

Science and Religion

Teaching About Evolution and  
the Nature of Science

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Components and Mechanisms  
Darwin's Dice

"This is the second volume from the In the Light of Evolution series, based on a series of Arthur M. Sackler colloquia, and designed to promote the

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evolutionary sciences. Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or

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challenges. Individually and collectively, the ILE series aims to interpret phenomena in various areas of biology through the lens of evolution, address some of the most intellectually engaging as well as

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pragmatically important societal issues of our times, and foster a greater appreciation of evolutionary biology as a consolidating foundation for the life sciences."--Pub. desc.

A FINALIST FOR THE

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PULITZER PRIZE NAMED A  
BEST BOOK OF THE YEAR BY  
THE NEW YORK TIMES BOOK  
REVIEW, SMITHSONIAN, AND  
WALL STREET JOURNAL A  
major reimagining of how  
evolutionary forces work,



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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,

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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

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adaptation by natural selection really account for everything we see in nature? Yale University ornithologist Richard Prum—reviving Darwin's own views—thinks not. Deep in tropical jungles around the

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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

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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

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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

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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

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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



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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

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nature's splendor contributes to a more complete understanding of evolution and of ourselves. The great evolutionist Mayr elucidates the subtleties of Darwin's thought and that of his contemporaries and intellectual

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heirs--A. R. Wallace, T. H. Huxley, August Weisman, Asa Gray. Mayr has achieved a remarkable distillation of Darwin's scientific thought and his legacy to twentieth-century biology.

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Is it accurate to label Darwin ' s theory "the theory of evolution by natural selection," given that the concept of common ancestry is at least as central to Darwin ' s theory? Did Darwin reject the idea that group

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selection causes characteristics to evolve that are good for the group though bad for the individual? How does Darwin's discussion of God in The Origin of Species square with the common view that he is the

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champion of methodological naturalism? These are just some of the intriguing questions raised in this volume of interconnected philosophical essays on Darwin. The author's approach is informed by modern

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issues in evolutionary biology, but is sensitive to the ways in which Darwin ' s outlook differed from that of many biologists today. The main topics that are the focus of the book—common ancestry, group selection, sex

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ratio, and naturalism—have rarely been discussed in their connection with Darwin in such penetrating detail. Author Professor Sober is the 2008 winner of the Prometheus Prize. This biennial award, established



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in 2006 through the American Philosophical Association, is designed "to honor a distinguished philosopher in recognition of his or her lifetime contribution to expanding the frontiers of research in

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philosophy and science." This insightful collection of essays will be of interest to philosophers, biologists, and laypersons seeking a deeper understanding of one of the most influential scientific

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theories ever propounded.  
Charles Darwin and the Genesis  
of Modern Evolutionary  
Thought  
Darwin's Doubt  
Annals of the New York  
Academy of Sciences

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Darwin ' S Racism  
Volume I: Adaptation and  
Complex Design  
Science or Myth? Why Much of  
What We Teach About  
Evolution Is Wrong  
The Church of Liberalism

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*Historians of science have long noted the influence of the nineteenth-century political economist Thomas Robert Malthus on Charles Darwin. In a bold move, Piers J. Hale contends that this focus on Malthus and his effect on Darwin's evolutionary thought neglects a strong anti-Malthusian tradition in*

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*English intellectual life, one that not only predated the 1859 publication of the Origin of Species but also persisted throughout the Victorian period until World War I. Political Descent reveals that two evolutionary and political traditions developed in England in the wake of the 1832 Reform Act: one*

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*Malthusian, the other decidedly anti-Malthusian and owing much to the ideas of the French naturalist Jean Baptiste Lamarck. These two traditions, Hale shows, developed in a context of mutual hostility, debate, and refutation. Participants disagreed not only about evolutionary processes but also on*

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*broader questions regarding the kind of creature our evolution had made us and in what kind of society we ought therefore to live. Significantly, and in spite of Darwin's acknowledgement that natural selection was "the doctrine of Malthus, applied to the whole animal and vegetable kingdoms," both sides of the debate*



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*claimed to be the more correctly  
“Darwinian.” By exploring the full  
spectrum of scientific and political issues  
at stake, Political Descent offers a novel  
approach to the relationship between  
evolution and political thought in the  
Victorian and Edwardian eras.  
Evolutionary theory ranks as one of the*

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*most powerful concepts of modern civilization. Its effects on our view of life have been wide and deep. One of the most world-shaking books ever published, Charles Darwin's On the Origin of Species, first appeared in print over 130 years ago, and it touched off a debate that rages to this day. Every modern*

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*evolutionist turns to Darwin's work again and again. Current controversies in the life sciences very often have as their starting point some vagueness in Darwin's writings or some question Darwin was unable to answer owing to the insufficient biological knowledge available during his time. Despite the*

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*intense study of Darwin's life and work, however, many of us cannot explain his theories (he had several separate ones) and the evidence and reasoning behind them, nor do we appreciate the modifications of the Darwinian paradigm that have kept it viable throughout the twentieth century. Who could elucidate the*

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*subtleties of Darwin's thought and that of his contemporaries and intellectual heirs—A. R. Wallace, T. H. Huxley, August Weismann, Asa Gray—better than Ernst Mayr, a man considered by many to be the greatest evolutionist of the century? In this gem of historical scholarship, Mayr has achieved a remarkable distillation of*

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*Charles Darwin's scientific thought and his enormous legacy to twentieth-century biology. Here we have an accessible account of the revolutionary ideas that Darwin thrust upon the world. Describing his treatise as "one long argument," Darwin definitively refuted the belief in the divine creation of each individual*

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*species, establishing in its place the concept that all of life descended from a common ancestor. He proposed the idea that humans were not the special products of creation but evolved according to principles that operate everywhere else in the living world; he upset current notions of a perfectly designed, benign natural*

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*world and substituted in their place the concept of a struggle for survival; and he introduced probability, chance, and uniqueness into scientific discourse. This is an important book for students, biologists, and general readers interested in the history of ideas—especially ideas that have radically altered our worldview.*



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*Here is a book by a grand master that spells out in simple terms the historical issues and presents the controversies in a manner that makes them understandable from a modern perspective.*

*Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging*

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*and conversational style, Teaching About Evolution and the Nature of Science provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity*

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*and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and*

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*misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information,*

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*materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is*

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*one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on*

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*how to evaluate and choose instructional materials that support the standards.*

*Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of*

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*the community.*

*In this elegant, portable masterpiece of scientific inquiry, Charles Darwin presents a convincing and engrossing case for his revolutionary theory of evolution by natural selection. The publication of Charles Darwin's *The Origin of Species* in 1859 marked a dramatic turning point*



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*in scientific thought, but it also ignited a firestorm of controversy. More than two decades following his intercontinental voyage aboard the HMS Beagle, the English naturalist carefully advanced his theory of evolution by natural selection, offering coherent and highly readable views of adaptation, survival of the fittest,*

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*and other concepts that form the foundation of modern evolutionary theory. The first edition of Darwin's original On the Origin of Species sold out on the day of publication, and as it continues to spark heated debate 150 years later, the work's impact is undeniable. Launching modern biology and informing virtually all*

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*contemporary literary, philosophical, and religious thinking, this is a book that changed the world, and now it is available as an elegantly designed, clothbound edition with an elastic closure and a new introduction by Amit Hagar.*

*Popular Science Monthly*

*The Definitive Case, Along with a Close*

*Page 67/182*

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*Look at Some of the Forgotten, Genuine  
Humanitarians of That Time*

*The Ape that Understood the Universe*

*The Structure of Evolutionary Theory*

*The Case Against Intelligent Design*

*Science, Evolution, and Creationism*

*How the Mind and Culture Evolve*

The first book to synthesize scientific

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and philosophical work on chance, this edited volume brings together leading biologists, philosophers of science, and historians of science, who collectively explore the role that chance plays or doesn't play, as the case may be in evolution. The first part of the volume places chance in

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historical context and explores how Darwin, along with his contemporaries, understood chance in addition to its related concepts; how these various concepts changed as Darwin's theory of evolution by natural selection developed into the Modern Synthesis; and how the chanciness of Darwinian

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theory affected theological resistance to it. The second part explores the importance of chance in current evolutionary theory. The third and final part focuses on recent empirical work in microbial experimental evolution and paleobiology, with the goal of determining how much of a role

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chance and contingency has played and continues to play in the history of life. The volume s final chapter investigates the perennial topic of chance in human evolution, beginning with the pre-Darwinian, theistic view that humans are at the pinnacle of the natural world and ending with the



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Darwinian view, which leaves no room for biological progress. It ultimately presents a more tempered view of biological progress and suggests that although our arrival on the evolutionary scene might not have been inevitable, it might not have been due to chance alone. "

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From the conservative spokesperson and author of *Slander* and *How to Talk to a Liberal* comes an all new, timely, and thought-provoking study of American politics and religion that looks at the Left's attacks on the Judeo-Christian tradition. Reprint. 300,000 first printing.

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For evolutionary biologists, the concept of chance has always played a significant role in the formation of evolutionary theory. As far back as Greek antiquity, chance and "luck" were key factors in understanding the natural world. Chance is not just an important concept; it is an entire way

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of thinking about nature. And as Curtis Johnson shows, it is also one of the key ideas that separates Charles Darwin from other systematic biologists of his time. Studying the concept of chance in Darwin's writing reveals core ideas in his theory of evolution, as well as his reflections on

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design, purpose, and randomness in nature's progression over the course of history. In Darwin's Dice: The Idea of Chance in the Thought of Charles Darwin, Curtis Johnson examines Darwin's early notebooks, his collected correspondence (now in 19 volumes), and most of his published writing to

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trace the evolution of his ideas about chance in evolution. This proved to be one of Darwin's most controversial ideas among his reading public, so much so that it drew hostile reactions even from Darwin's scientific friends, not to mention the more general reader. The firestorm of criticism

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forced Darwin to forge a retreat, not in terms of removing chance from his theory--his commitment to it was unshakable--but in terms of how he chose to present his theory. Briefly, by changing his wording and by introducing metaphors and images (the stone-house metaphor, the

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evolution of giraffes, and others), Darwin succeeded in making his ideas seem less threatening than before without actually changing his views. Randomness remained a focal point for Darwin throughout his life. Through the lens of randomness, Johnson reveals implications of Darwin's views



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for religion, free will, and moral theory. Darwin's Dice presents a new way to look at Darwinist thought and the writings of Charles Darwin.

Throughout the 19th century in the British Empire, parallel developments in science and the law were squeezing Aborigines everywhere into

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nonexistence. Charles Darwin took part in this. Again and again, he expressed his approval of the extermination of the native lower races. The more interesting part of the story is that there were plenty of voices, albeit a minority and mostly forgotten now, who objected on

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humanitarian grounds (and sometimes scientific grounds as well). Europeans, they said, were becoming polished savages and dehumanizing the Other. Darwin was very aware of this criticism and cared not one whit. As he said in a letter to Charles Lyell, I care not much whether we are looked at as mere

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savages in a remotely distant future. But he well knew it was not a remote future. He had read several writers who accused Europeans of being the real savages. For a brief moment in his youth in his Diary, he himself dabbled in such criticism, even though he already believed in the inferiority of

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indigenous peoples. That belief grew firmer as he matured. Darwin did not dispute humanitarians so much as he ignored them. Its a sad story. But oh those humanitarians, how they inspire.

Political Descent

The Four Great Books of Charles Darwin

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Darwin: A Very Short Introduction

A Unifying View of Life, Function,

Form, Mismatches and Trends

Chance in Evolution

Why Evolution is True

The Explosive Origin of Animal Life

and the Case for Intelligent Design

**This book offers a**

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thorough reanalysis of Charles Darwin's *Origin of Species*, which for many people represents the work that alone gave rise to evolutionism. Of course, scholars today know better

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than that. Yet, few resist the temptation of turning to the Origin in order to support it or reject it in light of their own work. Apparently, Darwin fills the mythical role of a



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founding figure that must either be invoked or repudiated. The book is an invitation to move beyond what is currently expected of Darwin's magnum opus. Once the rhetorical

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varnish of Darwin's discourses is removed, one discovers a work of remarkably indecisive conclusions. The book comprises two main theses:  
(1) The Origin of Species

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never remotely achieved the theoretical unity to which it is often credited. Rather, Darwin was overwhelmed by a host of phenomena that could not fit into his narrow

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conceptual framework. (2)  
In the Origin of Species,  
Darwin failed at  
completing the full  
conversion to  
evolutionism. Carrying  
many ill-designed

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intellectual tools of the  
17th and 18th centuries,  
Darwin merely promoted a  
special brand of  
evolutionism, one that  
prevented him from taking  
the decisive steps toward

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an open and modern  
evolutionism. It makes an  
interesting read for  
biologists, historians and  
philosophers alike.

Natural Selection  
(Evolution): Fact or

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Fiction? It all started with Darwin. Have you ever wondered what Darwin's Origin of Species... really says? Can you come up with logical answers as to why evolution is not

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fact? Geologist George Schulte provides a careful analysis and logical critique of Darwin's book, chapter by chapter. Verifiable facts are separated from fantasy and



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each issue addressed with  
surprising results.

Darwin's Origin of  
Species...Science or  
Fantasy? will reveal: •

The glaring lack of  
scientific evidence for

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Darwin's theory • The case  
of the missing  
transitional forms • The  
crucial differences  
between natural selection  
and variation within  
species • The evidence

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that no one 'kind' has ever changed into another 'kind' • What the geologic record really says • The grave difficulties with Darwin's theory in his own words This book will

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answer questions and settle issues. It is an invaluable resource for students, parents, teachers, and anyone who is interested in separating fact from

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fiction—the proven from  
the imagined.

A creationist-turned-  
scientist demonstrates the  
facts of evolution and  
exposes Intelligent  
Design's real agenda

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Science is on the defensive. Half of Americans reject the theory of evolution and "Intelligent Design" campaigns are gaining ground. Classroom by

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classroom, creationism is overthrowing biology. In *Why Darwin Matters*, bestselling author Michael Shermer explains how the newest brand of creationism appeals to our

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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



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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

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proponents are invoking a combination of bad science, political antipathy, and flawed theology. He refutes their pseudoscientific arguments and then demonstrates why

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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

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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.

Jerry Fodor and Massimo

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Piatelli-Palmarini, a distinguished philosopher and scientist working in tandem, reveal major flaws at the heart of Darwinian evolutionary theory. They do not deny Darwin's

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status as an outstanding scientist but question the inferences he drew from his observations.

Combining the results of cutting-edge work in experimental biology with

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crystal-clear  
philosophical argument  
they mount a devastating  
critique of the central  
tenets of Darwin's account  
of the origin of species.  
The logic underlying

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natural selection is the survival of the fittest under changing environmental pressure. This logic, they argue, is mistaken. They back up the claim with evidence of



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what actually happens in nature. This is a rare achievement - the short book that is likely to make a great deal of difference to a very large subject. What Darwin Got

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Wrong will be  
controversial. The  
authors' arguments will  
reverberate through the  
scientific world. At the  
very least they will  
transform the debate about

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evolution.

Did Darwin Write the  
Origin Backwards?

What Darwin Got Wrong

The Species Problem

Malthus, Mutualism, and  
the Politics of Evolution

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in Victorian England

The Popular Science

Monthly

On the Origin of Species

Ongoing Issues

Darwin's theory that our  
ancestors were apes caused

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a furore in the scientific world and outside it when *The Origin of Species* was published in 1859.

Arguments still rage about the implications of his evolutionary theory, and

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scepticism about the value of Darwin's contribution to knowledge is widespread. In this analysis of Darwin's major insights and arguments, Jonathan Howard reasserts

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the importance of Darwin's work for the development of modern biology. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of

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titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis,



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perspective, new ideas,  
and enthusiasm to make  
interesting and  
challenging topics highly  
readable.

The Ape that Understood  
the Universe is the story

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of the strangest animal in the world: the human animal. It opens with a question: How would an alien scientist view our species? What would it make of our sex

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differences, our sexual behavior, our altruistic tendencies, and our culture? The book tackles these issues by drawing on two major schools of thought: evolutionary

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psychology and cultural evolutionary theory. The guiding assumption is that humans are animals, and that like all animals, we evolved to pass on our genes. At some point,

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however, we also evolved the capacity for culture - and from that moment, culture began evolving in its own right. This transformed us from a mere ape into an ape capable of

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reshaping the planet,  
travelling to other  
worlds, and understanding  
the vast universe of which  
we're but a tiny, fleeting  
fragment. Featuring a new  
foreword by Michael

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Shermer.

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

'There is grandeur in thsi

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view of life' Charles Darwin Charles Darwin's permanent legacy are his broad, abstract theories of evolution and natural selection, theories which he tested against an



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astonishing array of natural-history evidence in his writing. Mark Ridley uses a question-and-answer approach to explain how Darwin carefully tackled problems, and

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shows how the reader can understand Darwin's arguments by first working out what question Darwin had implicitly set himself to answer. Mark Ridley concentrates on extracts

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from Darwin's two most important books, *The Origin of Species* and *The Descent of Man*, and also introduces us to Darwin's lesser-known works, on topics as diverse as

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animal domestication and  
earthworms, and his  
writing on the human  
condition.

Charles Darwin's  
Incomplete Revolution  
Evolution Driven by

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Organismal Behavior  
The Secret History of  
Evolution  
The Annotated Origin  
An Introduction to the  
History and Philosophy of  
Science

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**In the Light of Evolution  
Evolution**

*PRAISE FOR PREVIOUS EDITIONS*

*"This is a brilliantly clear introduction  
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evolutionary biologists,  
developmental biologists, and  
researchers in, as well as  
students and academics in  
these areas and professional  
scientists in many subfields of***

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***biology. Discusses many of the mechanisms responsible for evolutionary change Includes an appendix that provides a brief synopsis of these mechanisms with most discussed in greater detail in***

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readers in their organization  
and understanding of the  
material by addressing the  
basic concepts and topics  
surrounding organic evolution  
Covers some topics not***

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***Godless***

***How To Read Darwin***

***The Evolution of Beauty***

***Darwin's Origin of Species...***

***Science or Fantasy?***

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### ***The Voyage of the Beagle A Facsimile of the First Edition of On the Origin of Species***

This is Charles Darwin's chronicle of his five-year journey, beginning in 1831, around the world as a naturalist on the H.M.S. Beagle.



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Bringing together conceptual obstacles and core concepts of evolutionary theory, this book presents evolution as straightforward and intuitive. When Charles Darwin finished *The Origin of Species*, he thought that

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he had explained every clue, but one. Though his theory could explain many facts, Darwin knew that there was a significant event in the history of life that his theory did not explain. During this event, the “Cambrian explosion,” many

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animals suddenly appeared in the fossil record without apparent ancestors in earlier layers of rock. In Darwin's Doubt, Stephen C. Meyer tells the story of the mystery surrounding this explosion of animal life—a mystery that has

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intensified, not only because the expected ancestors of these animals have not been found, but because scientists have learned more about what it takes to construct an animal. During the last half century, biologists have come

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to appreciate the central importance of biological information—stored in DNA and elsewhere in cells—to building animal forms. Expanding on the compelling case he presented in his last book, *Signature in the Cell*,

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Meyer argues that the origin of this information, as well as other mysterious features of the Cambrian event, are best explained by intelligent design, rather than purely undirected evolutionary processes.

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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

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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



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species; that it is almost exclusively the mechanism of adaptive evolutionary change; and that these changes are incremental, not drastic. Next, he examines the three critiques that currently challenge this classic Darwinian

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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

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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

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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

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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.

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Mutation-Driven Evolution  
Worldviews

The Selfish Gene

From So Simple a Beginning

How Darwin's Forgotten Theory of  
Mate Choice Shapes the Animal  
World - and Us