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New book, *The Gene's-Eye View of Evolution*, reviews the history of the gene's-eye view of evolution by describing current disagreements and conceptual debates, and highlighting its value in ...

~~The gene's-eye view of evolution~~

He continued to work and develop his ideas once he returned from his voyages. Darwin's theory of evolution by natural selection

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challenged the idea that God made all the animals and plants that ...

~~Darwin's theory of evolution by natural selection~~

A hundred years ago Darwin and Wallace in their theory of natural selection, or the survival of the fittest, explained how evolution could have happened in terms of processes known to take place today ...

~~The Theory of Evolution~~

Darwin shared his theory of evolution by natural selection with the scientific community. However, his ideas challenged the idea that God made all the animals and plants that live on Earth ...

~~The impact of Darwin and Wallace's ideas on modern biology~~

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The question is a good one because it opens the door to thoughts about the past and present relationship between religion and science. This relationship has been plagued with seri ...

~~Crow: The relationship between science and religion~~

For years, scientists have subscribed to the ideas brought about by Darwin's theory of evolution. In his book, *On the Origin of Species*, he outlines the main mechanism of natural selection ...

~~Beyond Darwin: Scientists May Be Redefining Evolution~~

One would hope that Darwin's ability to reconcile evolution with his ... Evolutionary theory has been dramatically validated by molecular biology. It is important that the general public, and ...

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~~Darwin's legacy~~

Darwin deserves credit for the overused idea of a paradigm shift—evolution was a scientific “fact,” but not so for Darwin’s theory of natural selection. This intellectual retreat happened for a number ...

~~Aristotle's Ladder, Darwin's Tree: The Evolution of Visual Metaphors for Biological Order~~

"Nothing in Biology Makes Sense Except in the Light ... When, in 1858, Wallace sent the older man a manuscript describing his theory of evolution, Darwin realized that Wallace could beat him ...

~~What Darwin Didn't Know~~

For over 150 years—since the time of Charles Darwin—the Theory of

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Evolution ... Indeed, the scientific fact that is evolution is the basis of most of biology. To that end, this is a complete ...

~~Three Pieces of Evidence That Prove Evolution is a Fact~~

Darwin and his later followers were faced with a seeming paradox. They described evolution ... Prize for Biology in 1983. In his landmark 1942 book, Mayr proposed that Darwin's theory of natural ...

~~Ernst Mayr and the Evolutionary Synthesis~~

Today, his optimism seems naive as state legislators and local school boards are working to prohibit teaching what they deem “Critical Race Theory” (CRT). The current battles look remarkably similar ...

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~~When opponents deery critical race theory, they're really fighting against change~~

Darwin continually emphasized the difference between his two great and separate accomplishments: establishing the fact of evolution, and proposing a theory—natural selection—to explain the ...

~~Theory, fact and the origin of life~~

With the exception of a few highly specialized biologists, those who accept evolution seem to do so on a purely... 2. The Theory of Evolution ca ... 146-185) A century ago, when Darwin published ...

~~Evolution, Marxian Biology, and the Social Scene~~

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"When a virus attacks a species, it typically becomes immune to that virus through genetic evolution," study co-author Zach Wood, a postdoctoral researcher in the School of Biology and Ecology ...

~~Humans Might Be Making Genetic Evolution Obsolete~~

Its subject was Darwin's theory of evolution. I had met Lewontin five ... which led other biologists to found the subfield of evolutionary biology known as "niche construction." ...

When *On the Origin of Species* came out in 1859, it changed the understanding of life and was the foundation of evolutionary

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biology. All the material that he received for this book was from the famous expeditions he took on the Beagle during the 1830s. This is the story of that voyage. *A Naturalist's Voyage Round the World* follows Charles Darwin over his almost five-year journey around the world, in which he studied animals, plants, geology, and much more. From the tip of South America and the Galapagos Islands to Australia and Tahiti, Darwin set out to study geology, but ended up finding the information that would lead to his theory of evolution by natural selection. With the original images from Darwin's journal, *A Naturalist's Voyage Round the World* is an incredible look into the past at one of the most important documentations of a sea voyage ever. The information collected by Darwin changed our world, and now you can relive every moment in his own words and illustrations.

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Charles Darwin is a towering figure in the history of science, who changed the direction of modern thought by establishing the basis of evolutionary biology. With a Foreword by Sir David Attenborough, this is a fascinating insight into Darwin's life as he first directly addressed the issues of humanity's place in nature, and the consequences of his ideas for religious belief. Incorporating previously unpublished material, this volume includes letters written by Darwin, and also those written to him by friends and scientific colleagues world-wide, by critics who tried to stamp out his ideas, and admirers who helped them to spread. They take up the story of Darwin's life in 1860, in the immediate aftermath of the publication of *On the Origin of Species*, and carry it through one of the most intense and productive decades of his career, to the eve of

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publication of *Descent of Man* in 1871.

In a book that is both groundbreaking and accessible, Daniel C. Dennett, whom Chet Raymo of *The Boston Globe* calls "one of the most provocative thinkers on the planet," focuses his unerringly logical mind on the theory of natural selection, showing how Darwin's great idea transforms and illuminates our traditional view of humanity's place in the universe. Dennett vividly describes the theory itself and then extends Darwin's vision with impeccable arguments to their often surprising conclusions, challenging the views of some of the most famous scientists of our day.

In this *New York Times* bestseller and longlist nominee for the National Book Award, "our greatest living chronicler of the natural

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world” (The New York Times), David Quammen explains how recent discoveries in molecular biology affect our understanding of evolution and life’s history. In the mid-1970s, scientists began using DNA sequences to reexamine the history of all life. Perhaps the most startling discovery to come out of this new field—the study of life’s diversity and relatedness at the molecular level—is horizontal gene transfer (HGT), or the movement of genes across species lines. It turns out that HGT has been widespread and important; we now know that roughly eight percent of the human genome arrived sideways by viral infection—a type of HGT. In *The Tangled Tree*, “the grandest tale in biology....David Quammen presents the science—and the scientists involved—with patience, candor, and flair” (Nature). We learn about the major players, such as Carl Woese, the most important little-known biologist of the

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twentieth century; Lynn Margulis, the notorious maverick whose wild ideas about “mosaic” creatures proved to be true; and Tsutomu Wantanabe, who discovered that the scourge of antibiotic-resistant bacteria is a direct result of horizontal gene transfer, bringing the deep study of genome histories to bear on a global crisis in public health. “David Quammen proves to be an immensely well-informed guide to a complex story” (The Wall Street Journal). In *The Tangled Tree*, he explains how molecular studies of evolution have brought startling recognitions about the tangled tree of life—including where we humans fit upon it. Thanks to new technologies, we now have the ability to alter even our genetic composition—through sideways insertions, as nature has long been doing. “*The Tangled Tree* is a source of wonder...Quammen has written a deep and daring intellectual adventure” (The Boston

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Globe).

Biodiversity-the genetic variety of life-is an exuberant product of the evolutionary past, a vast human-supportive resource (aesthetic, intellectual, and material) of the present, and a rich legacy to cherish and preserve for the future. Two urgent challenges, and opportunities, for 21st-century science are to gain deeper insights into the evolutionary processes that foster biotic diversity, and to translate that understanding into workable solutions for the regional and global crises that biodiversity currently faces. A grasp of evolutionary principles and processes is important in other societal arenas as well, such as education, medicine, sociology, and other applied fields including agriculture, pharmacology, and biotechnology. The ramifications of evolutionary thought also

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extend into learned realms traditionally reserved for philosophy and religion. The central goal of the In the Light of Evolution (ILE) series is to promote the evolutionary sciences through state-of-the-art colloquia-in the series of Arthur M. Sackler colloquia sponsored by the National Academy of Sciences-and their published proceedings. Each installment explores evolutionary perspectives on a particular biological topic that is scientifically intriguing but also has special relevance to contemporary societal issues or challenges. This tenth and final edition of the In the Light of Evolution series focuses on recent developments in phylogeographic research and their relevance to past accomplishments and future research directions.

Jerry Fodor and Massimo Piatelli-Palmarini, a distinguished

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philosopher and scientist working in tandem, reveal major flaws at the heart of Darwinian evolutionary theory. They do not deny Darwin's 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 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 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 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 Wrong will be controversial. The authors' arguments will reverberate through the scientific world. At the very

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least they will transform the debate about evolution.

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

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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, 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 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

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guidance on 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 the community.

Perhaps because of its implications for our understanding of human nature, recent philosophy of biology has seen what might be the most dramatic work in the philosophies of the "special" sciences. This drama has centered on evolutionary theory, and in the second edition of this textbook, Elliott Sober introduces the reader to the most important issues of these developments. With a rare combination of technical sophistication and clarity of expression,

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Sober engages both the higher level of theory and the direct implications for such controversial issues as creationism, teleology, nature versus nurture, and sociobiology. Above all, the reader will gain from this book a firm grasp of the structure of evolutionary theory, the evidence for it, and the scope of its explanatory significance.

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