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Gene Editing and the Unthinkable
Power to Control Evolution, ”
Answers
biochemists Jennifer Doudna and
Samuel Sternberg describe how
stunning advancements in their field
can bring a wide array of benefits, as
...

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Finding the cracks in DNA: Leading biochemists explain the importance and trials of gene editing

Evolution by natural selection was Charles Darwin ' s big idea and this year sees the 150th anniversary of the publication of his great book, The Descent Of Man, in which he applies

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How mankind really evolved: Top geneticist DR ADAM RUTHERFORD says simple diagram of ape changing to man is 'so wrong' it should be removed from school books - and reveals the ...

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After much thought, Darwin devised the theory of natural selection to explain his observations. The theory proposes that: Darwin ' s ideas were controversial at the time. Evolution challenged the ...

Darwin v Doudna: Who was the

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greatest scientist?
Jennifer Doherty

A selection of the nearly ... to warming
for other reasons, said Jennifer
Sheridan, assistant curator for
amphibians and reptiles at Carnegie
Museum of Natural History and the
lead author of ...

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Animals are shrinking. Blame climate change.

Although scientists can make some basic predictions about how a given plant species will diverge in nature, she added, such predictions “go out the window” when a natural selection process is ...

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Cannabis Was Domesticated in East
Asia, New Study Suggests

Its endurance is explained in part by
the attraction-selection-attrition model
first ... on developing leaders from
within—who were natural culture
carriers—recruiting outsiders became

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The Leader ' s Guide to Corporate
Culture

“ Cancer evolution by Darwinian
natural selection is the greatest
challenge we face in the ... negotiating
agreements with Ellipses Pharma and

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Business Development ...

Resistance-busting ICR drug enters
clinical trial
(AP) — Viruses aren ' t the only
sources of disease that evolve quickly
- the rapid evolution of a one ... With

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fewer hosts to infect, natural selection
would favor parasite individuals that

...

Study: Parasite devastated
Chesapeake Bay oysters in 1980s
A gene drive is a technique for
turbocharging evolution and

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spreading new traits throughout a species faster than they would spread through natural selection. It involves using a gene editing ...

Could editing the genomes of bats prevent future coronavirus pandemics? Two scientists think it 's

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Research in the Aquatic Biodiversity &
Conservation (ABC) Laboratory

focuses on the evolution and
conservation of biodiversity ... The
evolutionary forces we study are
natural selection, isolation and ...

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David J. Berg Jennifer Doherty

One thing is for sure — Jolie has come a long way since her days in grungy leather pants, and if her style evolution says anything about her wedding gown selection, we know it's going to be a ...

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Angelina Jolie's Style Evolution

The research includes field and laboratory work, as well as research with specimens in the Museum of Natural History ... sexual selection and speciation. I conduct research at the interface of ...

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Biology research projects Doherty

Natural immunity is better ... and that ' s just the way evolution goes, ” he said. “ Vaccines kind of stand in the way of that. ” Since then, Newsmax and its founder, Chris Ruddy, have ...

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Conservative media offers mixed messages on COVID-19 vaccine
Researching and developing sustainable solutions for over a decade, Cariaggi launched the Ethical Yarn Evolution collection ... with a wide selection of certified natural fibers such as GOTS ...

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Pitti Filati Returns to Physical Format
Amid Surge in Prices of Raw Materials
The people were not authorized to
discuss the selection process publicly
and spoke ... River by Asian carp – a
fish that overwhelms natural
ecosystems and is known for jumping

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As anthropogenic environmental changes spread and intensify across the planet, conservation biologists have to analyze dynamics at large spatial and temporal scales. Ecological

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and evolutionary processes are then closely intertwined. In particular, evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them. To tackle this challenge, areas of conservation

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biology that are disparate ought to be integrated into a unified framework. Bringing together conservation genetics, demography, and ecology, this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological

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Selection and evolutionary
processes. Which characteristics of
species and which features of
environmental change foster or hinder
evolutionary responses in ecological
systems? How do such responses
affect population viability, community
dynamics, and ecosystem functioning?

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Under which conditions will evolutionary responses ameliorate, rather than worsen, the impact of environmental change?

Invasion Genetics: the Baker & Stebbins legacy provides a state-of-the-art treatment of the evolutionary

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Selection of invasive species, whilst also revisiting the historical legacy of one of the most important books in evolutionary biology: *The Genetics of Colonizing Species*, published in 1965 and edited by Herbert Baker and G. Ledyard Stebbins. This volume covers a range of topics concerned with the

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evolutionary biology of invasion
including: phylogeography and the
reconstruction of invasion history;
demographic genetics; the role of
stochastic forces in the invasion
process; the contemporary evolution
of local adaptation; the significance of
epigenetics and transgenerational

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Selection for invasive species; the genomic consequences of colonization; the search for invasion genes; and the comparative biology of invasive species. A wide diversity of invasive organisms are discussed including plants, animals, fungi and microbes.

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Biological evolution is a fact—but the many conflicting theories of evolution remain controversial even today.

When *Adaptation and Natural Selection* was first published in 1966, it struck a powerful blow against those who argued for the concept of

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group selection—the idea that evolution acts to select entire species rather than individuals. Williams ' s famous work in favor of simple Darwinism over group selection has become a classic of science literature, valued for its thorough and convincing argument and its

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relevance to many fields outside of biology. Now with a new foreword by Richard Dawkins, *Adaptation and Natural Selection* is an essential text for understanding the nature of scientific debate.

The biological and philosophical

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implications of the emergence of new collective individuals from associations of living beings. Our intuitive assumption that only organisms are the real individuals in the natural world is at odds with developments in cell biology, ecology, genetics, evolutionary biology, and

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Selection. Although organisms have served for centuries as nature's paradigmatic individuals, science suggests that organisms are only one of the many ways in which the natural world could be organized. When living beings work together—as in ant colonies, beehives, and bacteria-

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metazoan symbiosis—new collective individuals can emerge. In this book, leading scholars consider the biological and philosophical implications of the emergence of these new collective individuals from associations of living beings. The topics they consider range from

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metaphysical issues to biological research on natural selection, sociobiology, and symbiosis. The contributors investigate individuality and its relationship to evolution and the specific concept of organism; the tension between group evolution and individual adaptation; and the

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Selection of collective individuals and the extent to which they can be defined by the same concept of individuality. These new perspectives on evolved individuality should trigger important revisions to both philosophical and biological conceptions of the individual.

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Contributors Frédéric Bouchard, Ellen Clarke, Jennifer Fewell, Andrew Gardner, Peter Godfrey-Smith, Charles J. Goodnight, Matt Haber, Andrew Hamilton, Philippe Huneman, Samir Okasha, Thomas Pradeu, Scott Turner, Minus van Baalen

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New York Times Bestseller From the most celebrated heir to Darwin comes a groundbreaking book on evolution, the summa work of Edward O.

Wilson's legendary career. Sparking vigorous debate in the sciences, *The Social Conquest of Earth* upends “ the famous theory that evolution naturally

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encourages creatures to put family first ” (Discover). Refashioning the story of human evolution, Wilson draws on his remarkable knowledge of biology and social behavior to demonstrate that group selection, not kin selection, is the premier driving force of human evolution. In a work

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that James D. Watson calls “a monumental exploration of the biological origins of the human condition, ” Wilson explains how our innate drive to belong to a group is both a “ great blessing and a terrible curse ” (Smithsonian). Demonstrating that the sources of morality, religion,

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and the creative arts are fundamentally biological in nature, the renowned Harvard University biologist presents us with the clearest explanation ever produced as to the origin of the human condition and why it resulted in our domination of the Earth ' s biosphere.

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Evolution is the concept that ties together all of the biological sciences. However, few curricular lessons are available that incorporate evolution into topics (that do not obviously lend themselves to it). For example, one can easily locate evolutionarybased

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Selection on topics like classification and natural selection. However, there are few lessons available for the high-school biology teacher on cell structure, protein function, or even biodiversity that highlight the importance of evolutionary processes. The purpose of this study was to

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better integrate the concept of evolution, using real examples, throughout the biology curriculum. This required developing or locating curriculum that tied evolution into many disparate areas of biology and then implementing the lessons. Two groups of high-school biology

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Students participated in this study. The first group received a traditional presentation of the biology curriculum, in which evolution is taught as a discrete unit. The second group received curriculum that integrated evolutionary concepts throughout the semester. Each group

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took a pre and post-test which measured their scientific understanding and application of evolution to describe biological scenarios at the beginning and end of the semester. Analyses of the results demonstrate that at the end of the course both groups, combined, were

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better able to define science, answer questions about the history of life on earth, identify data useful for hypothesis testing, and were more likely to employ evolutionary reasoning ($p < 0.05$). Furthermore, at the end of the term, both groups were also more likely to apply "Darwinian"

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reasoning and less likely to apply "Paleyian" design into their explanations of how organisms become adapted to their environments (p 0.05). Herein, "Paleyian" reasoning refers to the idea that species were designed (presumably by a creator) and did not

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evolve. However, interestingly, the students also increased in their application of "Lamarckian" reasoning ($p < 0.05$). A comparison of the two groups shows that the students who received the integrated curriculum had more significant increases in their ability to define science, answer

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questions about the history of life on earth, and identify data useful for hypothesis testing. Furthermore, they also had more significant increases in their application of the concept of evolution and in their use of a "Darwinian" mechanism. Although these data are encouraging, it should

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be noted that only the students receiving the integrated curriculum increased in their application of "Lamarckian" reasoning. Furthermore, although the group receiving the integrated curriculum did significantly increase their understanding of science and evolution (the

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"Lamarckians," notwithstanding) a comparison of the two groups shows that they received equivalent scores on the post-tests.

Covering all the main animal groups, from jellyfish to mammals, this book unravels the story of animal evolution.

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A collection of articles from various publications on different aspects of Evolution.

The biological and philosophical implications of the emergence of new collective individuals from

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Selection of living beings. Our intuitive assumption that only organisms are the real individuals in the natural world is at odds with developments in cell biology, ecology, genetics, evolutionary biology, and other fields. Although organisms have served for centuries as nature's

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paradigmatic individuals, science suggests that organisms are only one of the many ways in which the natural world could be organized. When living beings work together--as in ant colonies, beehives, and bacteria-metazoan symbiosis--new collective individuals can emerge. In this book,

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leading scholars consider the biological and philosophical implications of the emergence of these new collective individuals from associations of living beings. The topics they consider range from metaphysical issues to biological research on natural selection,

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Sociobiology, and symbiosis. The contributors investigate individuality and its relationship to evolution and the specific concept of organism; the tension between group evolution and individual adaptation; and the structure of collective individuals and the extent to which they can be

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defined by the same concept of individuality. These new perspectives on evolved individuality should trigger important revisions to both philosophical and biological conceptions of the individual.

Contributors Frédéric Bouchard, Ellen Clarke, Jennifer Fewell, Andrew

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J. Goodnight, Matt Haber, Andrew
Hamilton, Philippe Huneman, Samir
Okasha, Thomas Pradeu, Scott Turner,
Minus van Baalen

Smart genomes--an enthralling
account of revolutionary discoveries

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at the cutting edge of genomics research. Written by a molecular biologist at the forefront of genomics research, Darwin in the Genome is an exciting account of one of the hottest new theories in biology today: evolution by natural selection inevitably leads to strategic mutations.

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In the struggle for survival, from pathogens to flowers, birds to orangutans, baker's yeast to people, the fittest genomes are those that evolve effective molecular strategies that respond to, and in fact anticipate, challenges and opportunities in their environments. Writing in a clear,

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describes the emergence of genomic mutation strategies, which researchers are just beginning to uncover. She also spells out some of the more profound implications of these findings, including the importance of biodiversity, indeed

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human diversity, for survival, the possibility of bold new directions for medical research, and the inherent dangers of attempting to fix perceived "errors" in a human genome.

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