

Evolutionary Pathways In Nature A Phylogenetic Approach

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Ever since the mid 1800s, however, the most popular metaphor for evolution's pathways has not been ladders, threads, or watersheds, but rather phylogenetic trees (Box 1.1; Fig. 1.1). Under this view, DNA is the sap of heredity that has flowed through the ancient roots, trunks, and branches, and finally into the most recent twigs in various sections of the Tree of Life.

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Evolutionary Pathways explores applications of comparative phylogenetics to natural history, ethology, biogeography, taxonomy and other areas of biology. Each of its seventy essays follows a similar pattern, giving some background on a group of organisms, posing a question about their evolutionary history, and attempting to answer that question using phylogenetic analysis.

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Key Points Surprisingly, only a few classes of signalling pathways are sufficient to pattern the development of individuals, and they are used repeatedly throughout the evolution of animals....

The evolution of signalling pathways in animal ... - Nature

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TextBook Evolutionary Pathways In Nature A Phylogenetic ...

Human evolution, the process by which human beings developed on Earth from now-extinct primates. The only extant members of the human tribe, Hominini, belong to the species Homo sapiens. The exact nature of the evolutionary relationships between modern humans and their ancestors remains the subject of debate.

human evolution | Stages & Timeline | Britannica

A bacterium known as Acinetobacter baumannii causes serious lung infections in people with weakened immune systems. These illnesses are becoming more common largely because A. baumannii is increasingly developing resistance to antibiotics. Inside the airways, individual A. baumannii cells can stick together and coat themselves in a slimy substance to form a structure called biofilm, which ...

Evolutionary pathways to antibiotic resistance are ...

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millions of years in the making, according to a Texas A&M AgriLife Research scientist's research published in Nature ...

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It is not clear how biological pathways evolve to mediate a certain physiological response and why they show a level of complexity that is generally above the minimum required to achieve such a response. One possibility is that pathway complexity increases due to the nature of evolutionary mechanisms. Here, we analyze this possibility by using mathematical models of biological pathways and ...

Evolution of complexity in signaling pathways | PNAS

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