

Patterns and Processes in the History of Life

D. M. Raup, D. Jablonski,
Editors

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Patterns And Processes In The History Of Life Report Of The Dahlem Workshop On

Luther H. Martin, Donald Wiebe



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Patterns and Processes in the History of Life, 1986 **Patterns and Processes in the History of Life** D. Jablonski, D.M. Raup, 2012-12-06 Hypothesis testing is not a straightforward matter in the fossil record and here too interactions with biology can be extremely profitable Quite simply predictions regarding long term consequences of processes observed in living organisms can be tested directly using paleontological data if those living organisms have an adequate fossil record thus avoiding the pitfalls of extrapolative approaches We hope to see a burgeoning of this interactive effort in the coming years Framing and testing of hypotheses in paleontological subjects inevitably raises the problem of inferring process from pattern and the consideration and elimination of a broad range of rival hypothesis is an essential procedure here In a historical science such as paleontology the problem often arises that the events that are of most interest are unique in the history of life For example replication of the metazoan radiation at the beginning of the Cambrian is not feasible However decomposition of such problems into component hypotheses may at least in part alleviate this difficulty For example hypotheses built upon the role of species packing might be tested by comparing evolutionary dynamics both morphological and taxonomic during another global diversification such as the biotic rebound from the end Permian extinction which removed perhaps 95% of the marine species see Valentine this volume The subject of extinction and mass extinction in particular has become important in both paleobiology and biology *Patterns and Processes in the History of Life* D.M. Raup, D. Jablonski, 1986-11-01 Hypothesis testing is not a straightforward matter in the fossil record and here too interactions with biology can be extremely profitable Quite simply predictions regarding long term consequences of processes observed in living organisms can be tested directly using paleontological data if those living organisms have an adequate fossil record thus avoiding the pitfalls of extrapolative approaches We hope to see a burgeoning of this interactive effort in the coming years Framing and testing of hypotheses in paleontological subjects inevitably raises the problem of inferring process from pattern and the consideration and elimination of a broad range of rival hypothesis is an essential procedure here In a historical science such as paleontology the problem often arises that the events that are of most interest are unique in the history of life For example replication of the metazoan radiation at the beginning of the Cambrian is not feasible However decomposition of such problems into component hypotheses may at least in part alleviate this difficulty For example hypotheses built upon the role of species packing might be tested by comparing evolutionary dynamics both morphological and taxonomic during another global diversification such as the biotic rebound from the end Permian extinction which removed perhaps 95% of the marine species see Valentine this volume The subject of extinction and mass extinction in particular has become important in both paleobiology and biology *An Unnatural History of Religions* Leonardo Ambasciano, 2018-12-27 *An Unnatural History of Religions* examines the origins development and critical issues concerning the history of religion and its relationship with science The book explores the ideological biases logical fallacies

and unwarranted beliefs that surround the scientific foundations or lack thereof in the academic discipline of the history of religions positioning them in today's post truth culture Leonardo Ambasciano provides the necessary critical background to evaluate the most important theories and working concepts dedicated to the explanation of the historical developments of religion He covers the most important topics and paradigm shifts in the field such as phenomenology postmodernism and cognitive science These are taken into consideration chronologically each time with case studies on topics such as shamanism gender biases ethnocentrism and biological evolution Ambasciano argues that the roots of post truth may be deep in human biases but that historical justifications change each time resulting in different combinations The surprising rise of once fringe beliefs such as conspiracy theories pseudoscientific claims and so called scientific creationism demonstrates the alarming influence that post truth ideas may exert on both politics and society Recognising them before they spread anew may be the first step towards a scientifically renewed study of religion

The Handbook of Historical Linguistics Brian Joseph, Richard Janda, 2008-04-15 The Handbook of Historical Linguistics provides a detailed account of the numerous issues methods and results that characterize current work in historical linguistics the area of linguistics most directly concerned with language change as well as past language states Contains an extensive introduction that places the study of historical linguistics in its proper context within linguistics and the historical sciences in general Covers the methodology of historical linguistics and presents sophisticated overviews of the principles governing phonological morphological syntactic and semantic change Includes contributions from the leading specialists in the field

Religion Explained? Luther H. Martin, Donald Wiebe, 2017-09-21 With contributions from founders of the field including Justin Barrett E Thomas Lawson Robert N McCauley Paschal Boyer Armin Geertz and Harvey Whitehouse as well as from younger scholars from successive stages in the field's development this is an important survey of the first twenty five years of the cognitive science of religion Each chapter provides the author's views on the contributions the cognitive science of religion has made to the academic study of religion as well as any shortcomings in the field and challenges for the future Religion Explained The Cognitive Science of Religion after Twenty five Years calls attention to the field whilst providing an accessible and diverse survey of approaches from key voices as well as offering suggestions for further research within the field This book is essential reading for anyone in religious studies anthropology and the scientific study of religion

The Architecture of Evolution Marco Tamborini, 2022-12-20 In the final decades of the twentieth century the advent of evolutionary developmental biology evo devo offered a revolutionary new perspective that transformed the classical neo Darwinian gene centered study of evolution In The Architecture of Evolution Marco Tamborini demonstrates how this radical innovation was made possible by the largely forgotten study of morphology Despite the key role morphology played in the development of evolutionary biology since the 1940s the architecture of organisms was excluded from the Modern Evolutionary Synthesis And yet from the beginning of the twentieth century to the 1970s and 80s morphologists sought to understand how organisms were built and how organismal

forms could be generated and controlled The generation of organic form was they believed essential to understanding the mechanisms of evolution Tamborini explores how the development of evo devo and the recent organismal turn in biology involved not only the work of morphologists but those outside the biological community with whom they exchanged their data knowledge and practices Together with architects and engineers they worked to establish a mathematical and theoretical basis for the study of organic form as a mode of construction developing and reinterpreting important notions that would play a central role in the development of evolutionary developmental biology in the late 1980s This book sheds light not only on the interdisciplinary basis for many of the key concepts in current developmental biology but also on contributions to the study of organic form outside the English speaking world *Natural Selection* George C. Williams,1992-10-01 In this work George C Williams one of evolutionary biology s most distinguished scholars examines the mechanisms and meaning of natural selection in evolution Williams offers his own perspective on modern evolutionary theory including discussions of the gene as the unit of selection clade selection and macroevolution diversity within and among populations stasis and other timely and provocative topics In dealing with the levels of selection controversy he urges a pervasive form of the replicator vehicle distinction Natural selection he argues takes place in the separate domains of information and matter Levels of selection questions consequently require different theoretical devices depending on the domains being discussed In addressing these topics Williams presents a synthesis of his three decades of research and creative thought which have contributed greatly to evolutionary biology in this century **The Mass-Extinction Debates** William Glen,1994 This book examines the arguments and behavior of the scientists who have been locked in conflict over two competing theories to explain why 65 million years ago most life on earth including the dinosaurs perished Biotic Recovery from Mass Extinction Events M. B. Hart,1996 Engl

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