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The Great Barrier Reef Macmillan Higher Education

Used widely in non-majors biology classes, The Tangled Bank is the first textbook about evolution intended for the general reader. Zimmer, an award-winning science writer, takes readers on a fascinating journey into the latest discoveries about evolution. In the Canadian Arctic, paleontologists unearth fossils documenting the move of our ancestors from sea to land. In the outback of Australia, a zoologist tracks some of the world ' s deadliest snakes to decipher the 100-million-year evolution of venom molecules. In Africa, geneticists are gathering DNA to probe the origin of our species. In clear, non-technical language, Zimmer explains the central concepts essential for understanding new advances in evolution, including natural selection, genetic drift, and sexual selection. He demonstrates how vital evolution is to all branches of modern biology—from the fight against deadly antibiotic-resistant bacteria to the analysis of the human genome.

Getting Started with R Cambridge University Press

This new publication in the Models and Modeling in Science Education series synthesizes a wealth of international research on using multiple representations in biology education and aims for a coherent framework in using them to improve higher-order learning. Addressing a major gap in the literature, the volume proposes a theoretical model for advancing biology educators' notions of how multiple external representations (MERs) such as analogies, metaphors and visualizations can best be harnessed for improving teaching and learning in biology at all pedagogical levels. The content tackles the conceptual and linguistic difficulties of learning biology at each level—macro, micro, sub-micro, and symbolic, illustrating how MERs can be used in teaching across these levels and in various combinations, as well as in differing contexts and topic areas. The strategies outlined will help students' reasoning and problem-solving skills, enhance their ability to construct mental models and internal representations, and, ultimately, will assist in increasing public understanding of biology-related issues, a key goal in today's world of pressing concerns over societal problems about food, environment, energy, and health. The book concludes by highlighting important aspects of research in biological education in the post-genomic, information age.

Tree Thinking Oxford University Press

Return to the Sea portrays the life and evolutionary times of marine mammals--from giant whales and sea cows that originated 55 million years ago to the deep-diving elephant seals and clam-eating walruses of modern times. This fascinating account of the origin of various marine-mammal lineages--some extinct, others extant but threatened--is for the nonspecialist. Against a backdrop of geologic time and changing climates and geography, this volume takes evolution as its unifying principle to help us to understand today's diversity of marine mammals and their responses to environmental challenges. Annalisa Berta explains current controversies and explores patterns of change now taking place, such as shifting food webs and predator-prey relationships, habitat degradation, global warming, and the effects of humans on marine-mammal communities.

Darwin et ses pr é curseurs fran ç ais Univ of California Press

The NATO Advanced Study Institute on Numerical Taxonomy took place on the 4th - 16th of July, 1982, at the Kur- und Kongresshotel Residenz in Bad Windsheim, Federal Republic of Germany. This volume is the proceedings of that meeting, and contains papers by over two-thirds of the participants in the Institute. Numerical taxonomy has been attracting increased attention from systematists and evolutionary biologists. It is an area which has been marked by debate and conflict, sometimes bitter. Happily, this meeting took place in an atmosphere of "GemUtlichkeit", though scarcely of unanimity. I believe that these papers will show that there is an increased understanding by each taxonomic school of each others' positions. This augurs a period in which the debates become more concrete and specific. Let us hope that they take place in a scientific atmosphere which has occasionally been lacking in the past. Since the order of presentation of papers in the meeting was affected by time constraints, I have taken the liberty of rearranging them into a more coherent subject ordering. The first group of papers, taken from the opening and closing days of the meeting, debate philosophies of classification. The next two sections have papers on congruence, clustering and ordination. A notable concern of these participants is the comparison and testing of classifications. This has been missing from many previous discussions of numerical classification.

Foundations of Systematics and Biogeography Cambridge University Press

In Measuring and Reasoning, Fred L. Bookstein examines the way ordinary arithmetic and numerical patterns are translated into scientific understanding, showing how the process relies on two carefully managed forms of argument: • Abduction: the generation of new hypotheses to accord with findings that were surprising on previous hypotheses, and • Consilience: the confirmation of numerical pattern claims by analogous findings at other levels of measurement. These profound principles include an understanding of the role of arithmetic and, more importantly, of how numerical patterns found in one study can relate to numbers found in others. More than 200 figures and diagrams illuminate the text. The book can be read with profit by any student of the empirical nature or social sciences and by anyone concerned with how scientists persuade those of us who are not scientists why we should credit the most important claims about scientific facts or theories.

Numerical Taxonomy Sinauer Associates Incorporated

The horse has frequently been used as a classic example of long-term evolution because it possesses an extensive fossil record. This book synthesizes the large body of data and research relevant to an understanding of fossil horses from perspectives such as biology, geology, paleontology.

Evolution Vs. Creationism Tomorrow Printers & Pub

Grade level: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, p, e, i, s, t.

Inferring Phylogenies Springer

Methodological introduction; Localities for palaeozoic and mesozoic insects; The phyloggenetic development of the insecta; Concluding remarks and prospects for the future.

Vogel and Motulsky's Human Genetics Stackpole Books

Excerpt from A Manual of Zoology The favor with which the first and second American editions of Hertwig's Zoology have been received has led to a thorough revision of the whole with a close comparison with the latest German edition. In this there have been introduced many new features bringing the work up to date. These include a discussion of Mendelian inheritance, many modifications in the account of the theory of evolution, and a considerable enlargement of the Protozoa and especially of the pathogenic forms, making the volume of more value to the student of medicine. To have included these without changes elsewhere would have resulted in a much larger volume. But the demand in American colleges has been for a smaller work and so a reduction has been made in two ways. There has been a condensation by the elimination of unnecessary words and phrases and by the omission of considerable matter of minor importance. Then there has been the recognition of the fact that the book has two uses, one in the class room the other as a reference work. The two classes of matter have been distinguished by difference of type. No attempt has been made to bring the systematic names into accord with the latest vagaries of the systematists. No useful and could be served by changing or transferring the well-known names of Echidna, Coluber, Amia, Homarus, Unio, Holothuria, Am ba, etc., while the confusion this would introduce would be enormous. It should be understood that while the revision is based upon the German edition of Professor Hertwig, he should not be held responsible for any changes introduced. The whole responsibility for these rests upon the American reviser.

Punctuated Equilibrium Cambridge University Press

This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

What Evolution Is Inferring Phylogenies

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 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 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 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 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 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 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.

Insect Phylogeny Amsterdam University Press

A popular entry-level guide into the use of R as a statistical programming and data management language for students, post-docs, and seasoned researchers now in a new revised edition, incorporating the updates in the R environment, and also adding guidance on the use of more complex statistical analyses and tools.

Biological Science, an Ecological Approach Franklin Classics Trade Press

Phylogenies, or evolutionary trees, are the basic structures necessary to think about and analyze differences between species. Statistical, computational, and algorithmic work in this field has been ongoing for four decades now, and there have been great advances in understanding. Yet no book has summarized this work. Inferring Phylogenies does just that in a single, compact volume. Phylogenies are inferred with various kinds of data. This book concentrates on some of the central ones: discretely coded characters, molecular sequences, gene frequencies, and quantitative traits. Also covered are restriction sites, RAPDs, and microsatellites.

Understanding by Design Handbook OUP Oxford

This book covers the current state of thinking and what it means to have a framework of representational competence and how such theory can be used to shape our understanding of the use of representations in science education, assessment, and instruction. Currently, there is not a consensus in science education regarding representational competence as a unified theoretical framework. There are multiple theories of representational competence in the literature that use differing perspectives on what competence means and entails. Furthermore, dependent largely on the discipline, language discrepancies cause a potential barrier for merging ideas and pushing forward in this area. While a single unified theory may not be a realistic goal, there needs to be strides taken toward working as a unified research community to better investigate and interpret representational competence. An objective of this book is to initiate thinking about a representational competence theoretical framework across science educators, learning scientists, practitioners and scientists. As such, we have divided the chapters into three major themes to help push our thinking forward: presenting

current thinking about representational competence in science education, assessing representational competence within learners, and using our understandings to structure instruction.

Handbook of Paleoanthropology Univ of California Press

Provides information on the molecular basis of human genetics and outlines the principles of other epigenetic processes which together create the phenotype of a human being. This work also discusses the molecular basis for the concepts, methods and results in fields such as population genetics.

Investigating Evolutionary Biology in the Laboratory Harvard University Press

Although less than a decade old, the field of microarray data analysis is now thriving and growing at a remarkable pace. Biologists, geneticists, and computer scientists as well as statisticians all need an accessible, systematic treatment of the techniques used for analyzing the vast amounts of data generated by large-scale gene expression studies

The Tangled Bank Basic Books

At once a spirited defense of Darwinian explanations of biology and an elegant primer on evolution for the general reader, What Evolution Is poses the questions at the heart of evolutionary theory and considers how our improved understanding of evolution has affected the viewpoints and values of modern man.Science Masters Series

Handbook of Paleoanthropology John Wiley & Sons

Donald R. Prothero ' s Evolution is an entertaining and rigorous history of the transitional forms and series found in the fossil record. Its engaging narrative of scientific discovery and well-grounded analysis has led to the book ' s widespread adoption in courses that teach the nature and value of fossil evidence for evolution. Evolution tackles systematics and cladistics, rock dating, neo-Darwinism, and macroevolution. It includes extensive coverage of the primordial soup, invertebrate transitions, the development of the backbone, the reign of the dinosaurs, and the transformation from early hominid to modern human. The book also details the many alleged " missing links " in the fossil record, including some of the most recent discoveries that flesh out the fossil timeline and the evolutionary process. In this second edition, Prothero describes new transitional fossils from various periods, vividly depicting such bizarre creatures as the Odontochelys, or the " turtle on the half shell "; fossil snakes with legs; and the " Frogamander, " a new example of amphibian transition. Prothero ' s discussion of intelligent design arguments includes more historical examples and careful examination of the " experiments " and observations that are exploited by creationists seeking to undermine sound science education. With new perspectives, Prothero reframes creationism as a case study in denialism and pseudoscience rather than a field with its own intellectual dynamism. The first edition was hailed as an exemplary exploration of the fossil evidence for evolution, and this second edition will be welcome in the libraries of scholars, teachers, and general readers who stand up for sound science in this post-truth era.

TAXONOMY OF ANGIOSPERMS CRC Press

Mathematical logic and automata theory are two scientific disciplines with a fundamentally close relationship. The authors of Logic and Automata take the occasion of the sixtieth birthday of Wolfgang Thomas to present a tour d ' horizon of automata theory and logic. The twenty papers in this volume cover many different facets of logic and automata theory, emphasizing the connections to other disciplines such as games, algorithms, and semigroup theory, as well as discussing current challenges in the field.

Excess Baggage Assn for Supervision & Curriculum

This extensive, three-volume handbook, intensively updated and enlarged, is a superb new resource for students, researchers, and practitioners in paleoanthropology. A baseline storehouse covering the full extent of current knowledge, the volume is a multilayered, comprehensive companion of inestimable value to students, academics, and working professionals alike.