

BEYOND CLADISTICS

The Branching of a Paradigm



Edited by DAVID M. WILLIAMS and SANDRA KNAPP

Beyond Cladistics The Branching Of A Paradigm Species And Systematics

Quentin Wheeler



Beyond Cladistics The Branching Of A Paradigm Species And Systematics:

Beyond Cladistics David Mervyn Williams, Sandra Knapp, 2010 This multifarious volume does a splendid job of reflecting the breadth and depth of fundamental questions about the methods of systematics and biogeography from the practical applications of conservation biology to issues of wide interest to evolutionary biologists Dr Norman I Platnick American Museum of Natural History A fun and informative volume that everyone interested in the subject will enjoy This book is full of important discussions on Botany Cladistics and Biogeography Vicki Funk National Museum of Natural History Smithsonian Institution The Branching Of A Paradigm is the intriguing theme of this volume on the myriad of ways cladistics has impacted modern biology Surprises from floristics to recent thoughts on epistemology await the reader Dennis Stevenson New York Botanical Garden

Species Problems and Beyond John S. Wilkins, Frank E. Zachos, Igor Ya. Pavlinov, 2022-06-14 Species Problems and Beyond offers a collection of up to date essays discussing from an interdisciplinary perspective the many ramifications of the Species Problem The authors represent experts in the philosophy of biology in species level evolutionary investigations and in biodiversity studies and conservation Some of the topics addressed concern the context sensitivity of the term species species as individuals processes natural kinds or as operative concepts species delimitation in the age of Big genomic Data and taxonomic inflation and its consequences for conservation strategies The carefully edited volume will be an invaluable resource for philosophers of biology and evolutionary biologists alike Olivier Rieppel Rowe Family Curator of Evolutionary Biology Negaunee Integrative Research Center Field Museum USA Species or the Species Problem is a topic in science in the philosophy of science and in general philosophy In fact it encompasses many aspects of the same problem and these are dealt with in this volume Species are often thought of as fundamental units of biological matter to be used in ecology conservation classification and biodiversity The chapters in this book present opposing views on the current philosophical and conceptual issues of the Species Problem in biology Divided into four sections Concepts and Theories Practice and Methods Ranks and Trees and Names and Metaphysics and Epistemologies the book is authored by biologists philosophers and historians many leaders in their fields Topics include ontology of species definitions of both species category and units species rank speciation issues nomenclature ecology and species conservation Species Problems and Beyond aims to clarify the contemporary issues of the Species Problem It is ideal for use in upper level seminars and courses in Evolutionary Biology Philosophy of Science Philosophy of Biology Systematics and Taxonomy and Phylogenetics Cladistics and for any scholar in these fields

Renegotiating Disciplinary Fields in the Life Sciences Alessandro Minelli, 2021-02-24 Recent and ongoing debates in biology and the philosophy of biology reveal a widespread dissatisfaction with traditional explanatory frameworks There are also problems with the current definitions or circumscriptions of key concepts such as gene species and homology and even of whole disciplinary fields within the life sciences e g developmental biology These contrasting views are arguably a symptom of the need to revisit traditional unchallenged partitions between

the specialist disciplines within the life sciences In the diversity of topics addressed and approaches to move beyond the current disciplinary organization the five essays in this volume will hopefully stimulate further exploration towards an improved articulation of life sciences

Reinvention of Australasian Biogeography Malte Ebach, 2017-01-20 Biogeography the study of the distribution of life on Earth has undergone more conceptual changes revolutions and turf wars than any other scientific field Australasian biogeographers are responsible for several of these great upheavals including debates on cladistics panbiogeography and the drowning of New Zealand some of which have significantly shaped present day studies Australasian biogeography has been caught in a cycle of reinvention that has lasted for over 150 years The biogeographic research making headlines today is merely a shadow of past practices having barely advanced scientifically Fundamental biogeographic questions raised by naturalists a century ago remain unanswered yet are as relevant today as they were then Scientists still do not know whether Australia and New Zealand are natural biotic areas or if they are in fact artificial amalgamations of areas The same question goes for all biotic areas in Australasia are they real Australasian biogeographers need to break this 150 year cycle learn from their errors and build upon new ideas Reinvention of Australasian Biogeography tells the story of the history of Australasian biogeography enabling understanding of the cycle of reinvention and the means by which to break it and paves the way for future biogeographical research The book will be a valuable resource for biological and geographical scientists especially those working in biogeography biodiversity ecology and conservation It will also be of interest to historians of science

Biogeography of Australasia Michael Heads, 2014 A fascinating analysis of the main patterns of distribution and evolution of the Australasian biota

The Future of Phylogenetic Systematics David Williams, Michael Schmitt, Quentin Wheeler, 2016-07-21 This book documents Willi Hennig's founding of phylogenetic systematics and the relevancy of his work for the future of cladistics

A Concise Dictionary of Paleontology Robert L. Carlton, 2019-10-18 This new and significantly updated authored dictionary is a unique glossary of paleontological terms taxa localities and concepts It focuses primarily on identifying the most significant groups of fossil animals and plants in relation to their evolution and phylogeny It also focuses on mass extinctions on taxa that are problematic in some significant way on the principal fossil Lagerstätten of the world and on historical turning points marked by index fossils Although there are many current resources on the subject none contains an accurate representation of the paleontological lexicon Although well aware that the fast changing field of paleontology will always defy any attempt at complete description the author has attempted to provide an accurate and comprehensive set of about 4 000 entries that will be useful to professionals as well as to general readers of scientific literature without a background in paleontology

Culicipedia Ralph E Harbach, 2018-10-17 This unique volume is a comprehensive compilation of all scientific names introduced at all levels of classification within the Culicipedia family since the official start of zoological nomenclature The work is largely a lexicon aimed at being historical and informative as well as nomenclatural and bibliographic Unlike catalogues it contains sections devoted separately to the

groups of names regulated by the International Code of Zoological Nomenclature the species genus and family groups as well as sections concerned with names derived from personal and geographical names and other sources In addition to insights into the history of mosquito classification attention given to the formation Latinization and derivation of names makes the work a crucial contribution to mosquito science *Handbook of Australasian Biogeography* Malte C. Ebach, 2017-01-06 The *Handbook of Australasian Biogeography* is the most comprehensive overview of the biogeography of Australasian plants fungi and animal taxa in a single volume This volume is unique in its coverage of marine freshwater terrestrial and subterranean taxa It is an essential publication for anyone studying or researching Australasian biogeography The book contains biogeographic reviews of all major plant animal and fungal groups in Australasia by experts in the field including a strong emphasis on invertebrates algae fungi and subterranean taxa It discusses how Australasia is different from the rest of the world and what other areas share its history and biota *Species, Science and Society* Quentin Wheeler, 2023-07-06 This book presents an engaging and accessible examination of the role of systematic biology in species exploration and biodiversity conservation Our planet and systematic biology are at a crossroads Millions of species face an imminent threat of extinction and with knowledge of only a fraction of earth's species we are unprepared to respond *Species Science and Society* explains what is at stake if we continue to ignore the traditional mission of systematics Rejecting claims that it is too late to document earth's species that molecular evidence is sufficient and that comparative morphology and the grand traditions of systematics are outdated this book makes a compelling argument for a taxonomic renaissance The book challenges readers to rethink assumptions about systematics Shattering myths and misconceptions and clarifying the role of systematics in confronting mass extinction it hopes to inspire a new generation of systematists Readers are given a deeply personal view of the mission motivations and rewards of systematic biology Written in narrative style with passion wit and optimism it is the first book to question the growing dominance of molecular data defend descriptive taxonomy and propose a mission to discover describe and classify all species Our evolutionary heritage the fate of society and the future of the planet depend on what we do next This book will be of great interest to academics researchers and professionals working in systematics taxonomy and biodiversity conservation as well as students with a basic background in biology

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