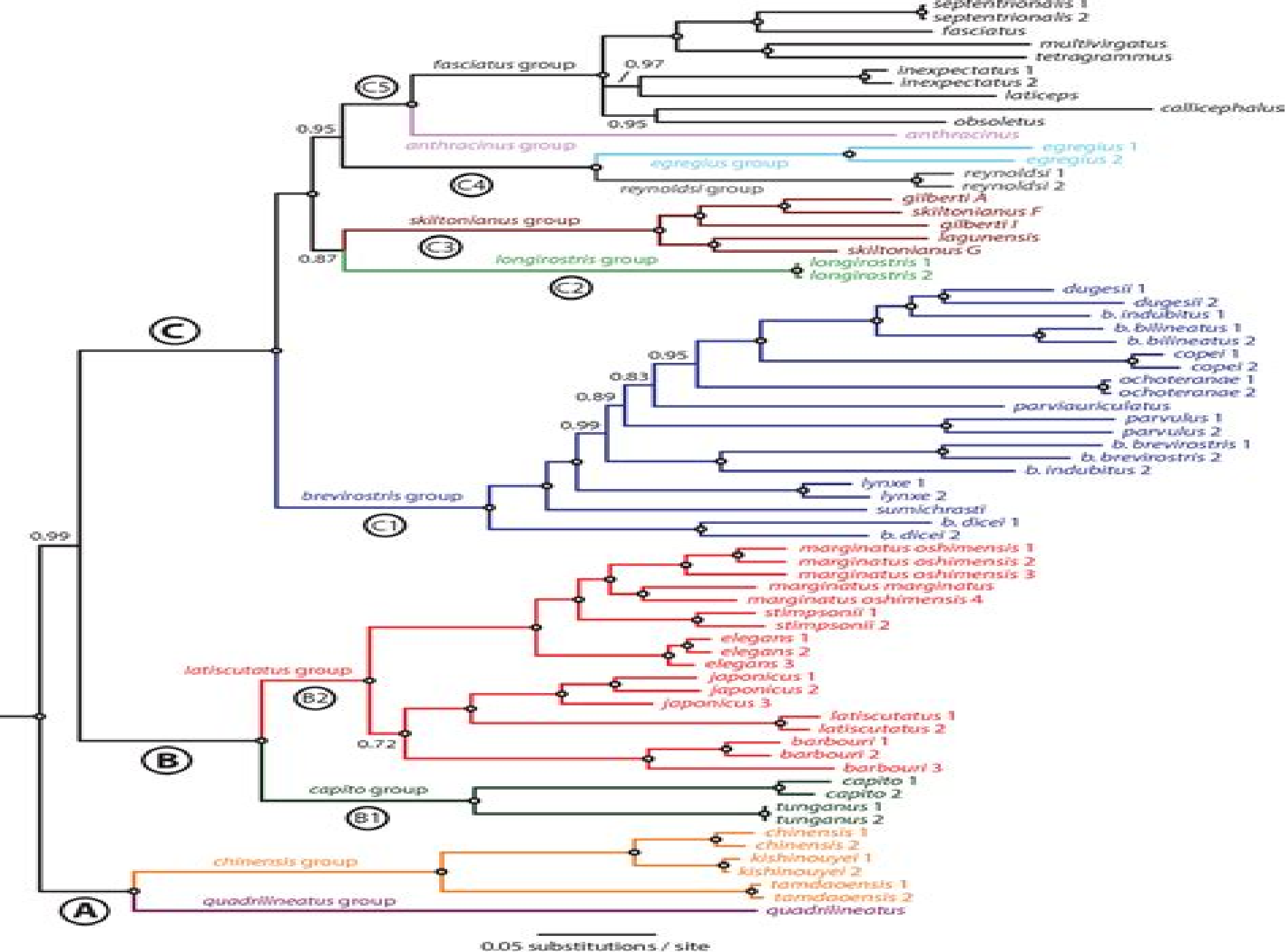




Phylogenetic Systematics

Jer-Ming Hu



Phylogenetic Systematics:

Phylogenetic Systematics Willi Hennig, 1999 *Phylogenetic Systematics* first published in 1966 marks a turning point in the history of systematic biology. Willi Hennig's influential synthetic work arguing for the primacy of the phylogenetic system as the general reference system in biology generated significant controversy and opened possibilities for evolutionary biology that are still being explored.

The Evolution of Phylogenetic Systematics Andrew Hamilton, 2013-11-09 *The Evolution of Phylogenetic Systematics* aims to make sense of the rise of phylogenetic systematics: its methods, its objects of study, and its theoretical foundations, with contributions from historians, philosophers, and biologists. This volume articulates an intellectual agenda for the study of systematics and taxonomy in a way that connects classification with larger historical themes in the biological sciences, including morphology, experimental and observational approaches, evolution, biogeography, debates over form and function, character transformation, development, and biodiversity. It aims to provide frameworks for answering the question: how did systematics become phylogenetic?

Phylogenetic Systematics Olivier Rieppel, 2016-07-06 *Phylogenetic Systematics* Haeckel to Hennig traces the development of phylogenetic systematics against the foil of idealistic morphology through 100 years of German biology. It starts with the iconic Ernst Haeckel, the German Darwin from Jena, and the evolutionary morphology he developed. It ends with Willi Hennig, the founder of modern phylogenetic.

Phylogenetics E. O. Wiley, Bruce S. Lieberman, 2011-10-11 The long-awaited revision of the industry standard on phylogenetics. Since the publication of the first edition of this landmark volume more than twenty-five years ago, phylogenetic systematics has taken its place as the dominant paradigm of systematic biology. It has profoundly influenced the way scientists study evolution and has seen many theoretical and technical advances as the field has continued to grow. It goes almost without saying that the next twenty-five years of phylogenetic research will prove as fascinating as the first, with many exciting developments yet to come. This new edition of *Phylogenetics* captures the very essence of this rapidly evolving discipline. Written for the practicing systematist and phylogeneticist, it addresses both the philosophical and technical issues of the field, as well as surveys general practices in taxonomy. Major sections of the book deal with the nature of species and higher taxa, homology and characters, trees and tree graphs, and biogeography, the purpose being to develop biologically relevant species character tree and biogeographic concepts that can be applied fruitfully to phylogenetics. The book then turns its focus to phylogenetic trees, including an in-depth guide to tree-building algorithms. Additional coverage includes Parsimony and parsimony analysis, Parametric phylogenetics including maximum likelihood and Bayesian approaches, Phylogenetic classification, Critiques of evolutionary taxonomy, phenetics, and transformed cladistics, Specimen selection, field collecting, and curating, Systematic publication, and the rules of nomenclature. Providing a thorough synthesis of the field, this important update to *Phylogenetics* is essential for students and researchers in the areas of evolutionary biology, molecular evolution, genetics, and evolutionary genetics, paleontology, physical anthropology, and zoology.

Foundations of Phylogenetic Systematics Johann Wolfgang

Wägele, 2005 Phylogeny inference and the classification of organisms are indispensable for all fields of biology. On the basis of a well corroborated tree of life it is possible to understand the evolution of structure and function of genomes of gene families of cascades of developmental genes and the origin of genes of medical importance. Ecologists need a stable classification of organisms to identify organisms to find their correct names and thus further information on relevant species. This book offers an introduction to the theory of Phylogenetic Systematics and is a companion for all biologists who want to analyze morphological or molecular data with classical methods or with modern computer programs. The first part of the book explains the epistemological basis that is independent of the type of method used to construct phylogenetic trees. Unlike other empirical sciences the estimation of data quality in phylogenetics is still little developed and very often neglected. Here a theoretical basis is presented that enables the systematist to assess critically and objectively the quality of different data sets and to make statements on the plausibility of results. This requires a conception of the notions of information content probability of homology probability of cognition probability of events the principle of parsimony the differentiation of phenomenological and modelling methods. Willi Hennig's original method is compared with modern numerical systematics and an updated Hennigian procedure of data analysis is discussed. The difference between phenetic and phylogenetic cladistics is explained. Popular tools for data evaluation implemented in computer programs are explained including their axiomatic assumptions sources of error and possible applications. For the more common tools the mathematical background is explained in a simple easy to understand way. Johann Wolfgang Wägele was until recently head of the Department for Animal Systematics Lehrstuhl für Spezielle Zoologie at the University of Bochum and is now director of the Museum Alexander Koenig in Bonn Germany. His main research interests are the taxonomy phylogeny and biodiversity of Isopoda which implies observations of life history biogeography and ecology in combination with phylogeny inference. Further subjects include arthropod phylogeny and tools for explorative data analyses. The author is president of the Gesellschaft für Biologische Systematik a Central European society of systematists and he is actively promoting biodiversity research.

The Future of Phylogenetic Systematics David Williams, Michael Schmitt, Quentin Wheeler, 2016-07-21. Willi Hennig 1913-76 founder of phylogenetic systematics revolutionised our understanding of the relationships among species and their natural classification. An expert on Diptera and fossil insects Hennig's ideas were applicable to all organisms. He wrote about the science of taxonomy or systematics refining and promoting discussion of the precise meaning of the term relationship the nature of systematic evidence and how those matters impinge on a precise understanding of monophyly paraphyly and polyphyly. Hennig's contributions are relevant today and are a platform for the future. This book focuses on the intellectual aspects of Hennig's work and gives dimension to the future of the subject in relation to Hennig's foundational contributions to the field of phylogenetic systematics. Suitable for graduate students and academic researchers this book will also appeal to philosophers and historians interested in the legacy of Willi Hennig.

The Evolution of Phylogenetic Systematics Andrew

Hamilton, 2013-11-09 *The Evolution of Phylogenetic Systematics* aims to make sense of the rise of phylogenetic systematics its methods its objects of study and its theoretical foundations with contributions from historians philosophers and biologists This volume articulates an intellectual agenda for the study of systematics and taxonomy in a way that connects classification with larger historical themes in the biological sciences including morphology experimental and observational approaches evolution biogeography debates over form and function character transformation development and biodiversity It aims to provide frameworks for answering the question how did systematics become phylogenetic **Biodiversity Conservation**

and Phylogenetic Systematics Roseli Pellens, Philippe Grandcolas, 2016-02-24 This book is about phylogenetic diversity as an approach to reduce biodiversity losses in this period of mass extinction Chapters in the first section deal with questions such as the way we value phylogenetic diversity among other criteria for biodiversity conservation the choice of measures the loss of phylogenetic diversity with extinction the importance of organisms that are deeply branched in the tree of life and the role of relict species The second section is composed by contributions exploring methodological aspects such as how to deal with abundance sampling effort or conflicting trees in analysis of phylogenetic diversity The last section is devoted to applications showing how phylogenetic diversity can be integrated in systematic conservation planning in EDGE and HEDGE evaluations This wide coverage makes the book a reference for academics policy makers and stakeholders dealing with biodiversity conservation **Phylogenetic Systematics** Olivier Rieppel, 2016-07-06 *Phylogenetic Systematics* Haeckel to

Hennig traces the development of phylogenetic systematics against the foil of idealistic morphology through 100 years of German biology It starts with the iconic Ernst Haeckel the German Darwin from Jena and the evolutionary morphology he developed It ends with Willi Hennig the founder of modern phylogenetic *Phylogenetics* E. O. Wiley, 2008 *Molecular Systematics of Plants II* Douglas E. Soltis, Pamela S. Soltis, J.J. Doyle, 1998 In the five years since the publication of *Molecular Systematics of Plants* the field of molecular systematics has advanced at an astonishing pace This period has been marked by a volume of new empirical data and advances in theoretical and analytical issues related to DNA Comparative DNA sequencing facilitated by the amplification of DNA via the polymerase chain reaction PCR has become the tool of choice for molecular systematics As a result large portions of the *Molecular Systematics of Plants* have become outdated *Molecular Systematics of Plants II* summarizes these recent achievements in plant molecular systematics Like its predecessor this completely revised work illustrates the potential of DNA markers for addressing a wide variety of phylogenetic and evolutionary questions The volume provides guidance in choosing appropriate techniques as well as appropriate genes for sequencing for given levels of systematic inquiry More than a review of techniques and previous work *Molecular Systematics of Plants II* provides a stimulus for developing future research in this rapidly evolving field *Molecular Systematics of Plants II* is not only written for systematists faculty graduate students and researchers but also for evolutionary biologists botanists and paleobotanists interested in reviewing current theory and practice in plant molecular systematics **Phylogenetic**

Systematics Willi Hennig, 1979 *Dynamic Homology and Phylogenetic Systematics* Ward Wheeler, 2006 The Phylogenetic Systematics of Freelifving Nematodes Sievert Lorenzen, 1994 This work offers information on free living nematodes It is intended for people working within the field of pollution monitoring *Phylogenetic Systematics of the Drynarioideae (Polypodiaceae)*, 1938 **Phylogenetic Systematics and Biogeography of the Tribe Robinieae (Leguminosae)** Matthew T. Lavin, Mario Sousa Sánchez, 1995 Phylogenetic Systematics of the Tribe Millettieae (Leguminosae) Jer-Ming Hu, 2000 *Phylogenetic Systematics, Biogeography and Diversification Patterns in Cowries* Christopher Porter Meyer, 1998 Phylogenetic Systematics of the Edwardsiidae (Cnidaria: Anthozoa) Marymegan Daly, 2001 *Phylogenetic Systematics of Dart-poison Frogs and Their Relatives (Amphibia: Athesphatanura: Dendrobatidae)* Taran Grant, 2006 The known diversity of dart poison frog species has grown from 70 in the 1960s to 247 at present with no sign that the discovery of new species will wane in the foreseeable future Although this growth in knowledge of the diversity of this group has been accompanied by detailed investigations of many aspects of the biology of dendrobatids their phylogenetic relationships remain poorly understood This study was designed to test hypotheses of dendrobatid diversification by combining new and prior genotypic and phenotypic evidence in a total evidence analysis DNA sequences were sampled for five mitochondrial and six nuclear loci approximately 6 100 base pairs bp x arithmetic mean 53 740 bp per terminal total dataset composed of approximately 1 55 million bp and 174 phenotypic characters were scored from adult and larval morphology alkaloid profiles and behavior These data were combined with relevant published DNA sequences Ingroup sampling targeted several previously unsampled species including Aromobates nocturnus which was hypothesized previously to be the sister of all other dendrobatids Undescribed and problematic species were sampled from multiple localities when possible The final dataset consisted of 414 terminals 367 ingroup terminals of 156 species and 47 outgroup terminals of 46 species Direct optimization parsimony analysis of the equally weighted evidence resulted in 25 872 optimal trees Forty nodes collapse in the strict consensus with all conflict restricted to conspecific terminals Dendrobatids were recovered as monophyletic and their sister group consisted of Crossodactylus Hylodes and Megaelosia recognized herein as Hylodidae Among outgroup taxa Centrolenidae was found to be the sister group of all athesphatanurans except Hylidae Leptodactylidae was polyphyletic Thoropa was nested within Cycloramphidae and Ceratophryinae was paraphyletic with respect to Telmatobiinae Among dendrobatids the monophyly and content of Mannophryne and Phyllobates were corroborated Aromobates nocturnus and Colostethus saltuensis were found to be nested within Nephelobates and Minyobates was paraphyletic and nested within Dendrobates Colostethus was shown to be rampantly nonmonophyletic with most species falling into two unrelated cis and trans Andean clades A morphologically and behaviorally diverse clade of median lingual process possessing species was discovered In light of these findings and the growth in knowledge of the diversity of this large clade over the past 40 years we propose a new monophyletic taxonomy for dendrobatids recognizing the inclusive clade

as a superfamily Dendrobatoidea composed of two families one of which is new six subfamilies three new and 16 genera four new Although poisonous frogs did not form a monophyletic group the three poisonous lineages are all confined to the revised family Dendrobatidae in keeping with the traditional application of this name We also propose changes to achieve a monophyletic higher level taxonomy for the athesphatanuran outgroup taxa Analysis of character evolution revealed multiple origins of phytotelm breeding parental provisioning of nutritive oocytes for larval consumption larval oophagy and endotrophy Available evidence indicates that transport of tadpoles on the dorsum of parent nurse frogs a dendrobatid synapomorphy is carried out primitively by male nurse frogs with three independent origins of female transport and five independent origins of biparental transport Reproductive amplexus is optimally explained as having been lost in the most recent common ancestor of Dendrobatoidea with cephalic amplexus arising independently three times

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Phylogenetic Systematics Introduction

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