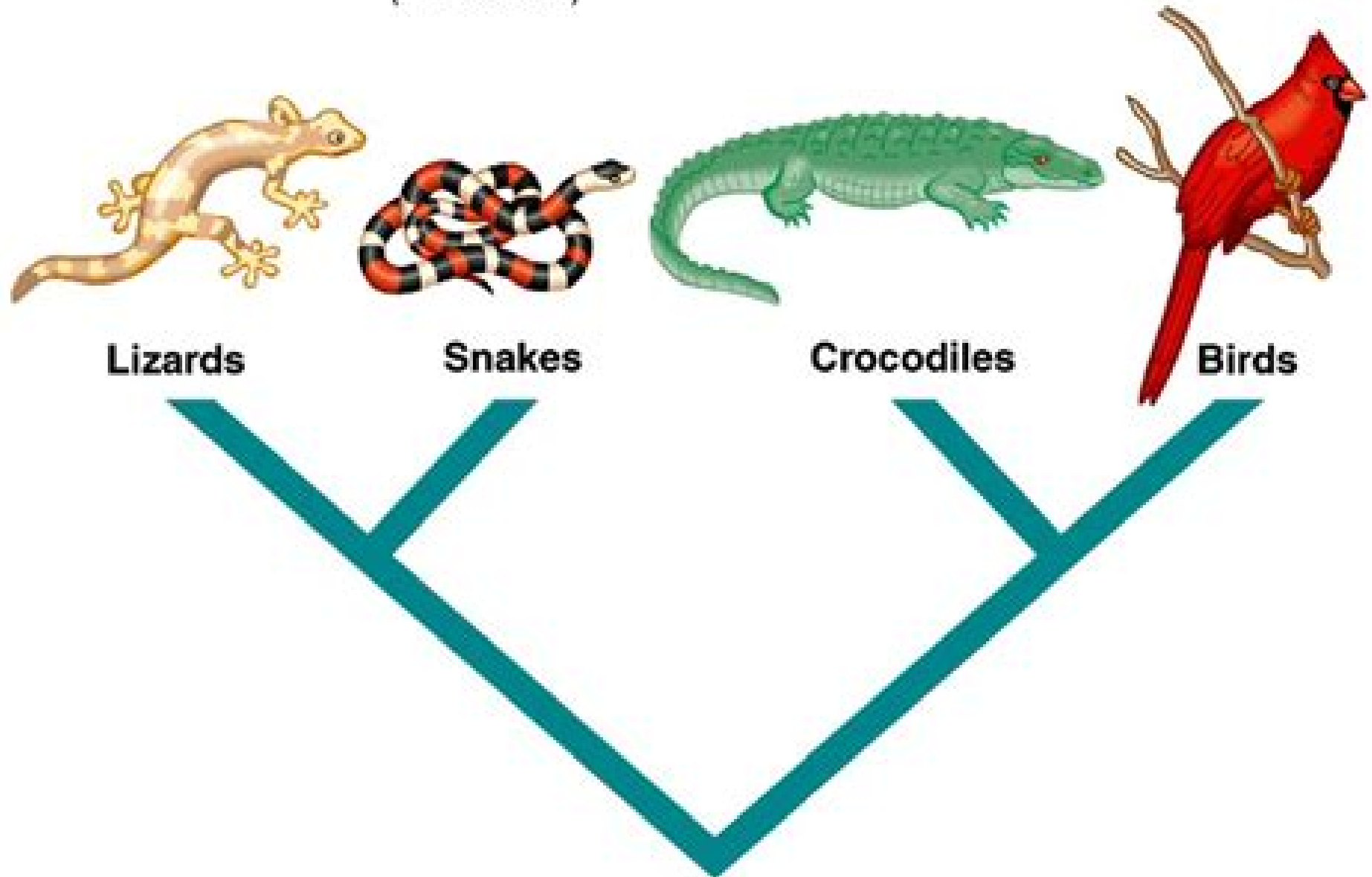


Figure 25.18 Modern systematics is shaking some phylogenetic trees
(molecular)



Phylogenetic Systematics

Willi Hennig



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 *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 **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 *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 *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 Phylogenetic Systematics of the Drynarioideae (Polypodiaceae) ,1938 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 *Dynamic Homology and Phylogenetic Systematics* Ward Wheeler,2006 Phylogenetic Systematics and Biogeography of the Carphodactylini (Reptilia: Gekkonidae) Aaron M. Bauer,1990 Phylogenetic Systematics, Biogeography and Diversification Patterns in Cowries Christopher Porter Meyer,1998 *Phylogenetics* E. O. Wiley,1981-08-10 Presents a clear simple and comprehensive overview of the phylogenetic approach to systematics which has two major goals reconstructing the evolutionary relationships among organisms and integrating the results into general reference classifications Shows how the results of systematic research can be applied to studying the pattern and processes of evolution Phylogenetic Systematics of the Family Odobenidae (Mammalia: Carnivora), with

Descriptions of New Species from the Pliocene of California and a Review of Marine Mammalian Paleofaunas of the World

Thomas Ashley Deméré,1994 **Comparative Myology and Phylogenetic Systematics of the Heteromyidae**

(Mammalia, Rodentia) James Michael Ryan,1989 Phylogenetic Systematics of the Edwardsiidae (Cnidaria: Anthozoa)

Marymegan Daly,2001 *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

Phylogenetic Systematics and Biogeography of the Tribe Robinieae (Leguminosae) Matthew T. Lavin,Mario

Sousa Sánchez,1995 Phylogenetic Systematics of Melastomataceae, Subfamily Olisbeoideae, a Species-rich and

Geographically Widespread Group of Tropical Forest Understory Trees Robert Douglas Stone,2004 *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 Tribe Millettieae

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