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The  
Development  
of Biological  
Systematics

*Antoine-Laurent  
de Jussieu,  
Nature, and the  
Natural System*



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THE  
DEVELOPMENT  
OF BIOLOGICAL  
SYSTEMATICS

*Antoine-Laurent de Jussieu,  
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Peter F. Stevens

# The Development Of Biological Systematics

**Andrew Hamilton**



## **The Development Of Biological Systematics:**

The Development of Biological Systematics Peter F. Stevens, 1994-12-01 A reevaluation of the history of biological systematics that discusses the formative years of the so called natural system of classification in the eighteenth and nineteenth centuries Shows how classifications came to be treated as conventions systematic practice was not linked to clearly articulated theory there was general confusion over the shape of nature botany elements of natural history and systematics were conflated and systematics took a position near the bottom of the hierarchy of sciences

**The Development Of Biological Systematics** , Biological Systematics Igor Pavlinov, 2021-03-25 This volume reviews the historical roots and theoretical foundations of biological systematics in an approachable text The author outlines the structure and main tasks of systematics Conceptual history is characterized as a succession of scientific revolutions The philosophical foundations of systematic research are briefly reviewed as well as the structure and content of taxonomic theories Most important research programs in systematics are outlined The book includes analysis of the principal problematic issues as scientific puzzles in systematics This volume is intended for professional taxonomists biologists of various specialties students as well as all those interested in the history and theory of biology and natural sciences

**Key Features** Considers the conceptual history of systematics as the framework of evolutionary epistemology Builds a hierarchically organized quasi axiomatic system of taxonomic theory Contends that more reductionist taxonomic concepts are less objective Supports taxonomic pluralism by non classic philosophy of science as a normal condition of systematics Documents that taxonomic puzzles result from conflict between monistic and pluralistic attitudes

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application of the results of systematic studies in the areas of biological classification biogeography adaptation and co evolution and biodiversity and conservation

**Biological Systematics** Igor Pavlinov,2021-03-25 This volume reviews the historical roots and theoretical foundations of biological systematics in an approachable text The author outlines the structure and main tasks of systematics Conceptual history is characterized as a succession of scientific revolutions The philosophical foundations of systematic research are briefly reviewed as well as the structure and content of taxonomic theories Most important research programs in systematics are outlined The book includes analysis of the principal problematic issues as scientific puzzles in systematics This volume is intended for professional taxonomists biologists of various specialties students as well as all those interested in the history and theory of biology and natural sciences Key Features Considers the conceptual history of systematics as the framework of evolutionary epistemology Builds a hierarchically organized quasi axiomatic system of taxonomic theory Contends that more reductionist taxonomic concepts are less objective Supports taxonomic pluralism by non classic philosophy of science as a normal condition of systematics Documents that taxonomic puzzles result from conflict between monistic and pluralistic attitudes Related Titles de Queiroz K et al eds Phylonyms A Companion to the PhyloCode ISBN 978 1 1383 3293 5 Sigwart J D What Species Mean A User s Guide to the Units of Biodiversity ISBN 978 1 4987 9937 9 Rieppel O Phylogenetic Systematics Haeckel to Hennig ISBN 978 1 4987 5488 0 Wilkins J S Species The Evolution of the Idea 2nd ed ISBN 978 1 1380 5574 2

**Coenraad Jacob Temminck and the Emergence of Systematics (1800–1850)** Eulàlia Gassó Miracle,2021-10-05 Coenraad Jacob Temminck and the Emergence of Systematics 1800 1850 is the first study to examine in detail the life and work of Coenraad Jacob Temminck 1778 1858 the Dutch naturalist who was the first director of s Rijks Museum van Natuurlijke Historie National Museum of Natural History in Leiden The Netherlands This study situates Temminck s activities in the context of European natural history during the early to the mid nineteenth century Three issues which defined the era are discussed in more detail the growing European colonial territories the rise of scientific meritocracy and the emergence of systematics as a discipline Temminck s biography elucidates how and why systematics developed and why its status within the natural sciences has been a matter of discussion for more than a century

**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

**The Hierarchies in Biological Systematics** Igor Ya. Pavlinov,2026-01-23 The Hierarchies in Biological Systematics A Conceptual Perspective examines the diverse hierarchies

shaping the field of biology From the overarching cognitive frameworks to the specific classifications that define biological taxonomy this book is a comprehensive analysis of hierarchical structures and their inherent complexities Through a conceptual lens the author explores the fundamental parameters of hierarchies their fuzziness and the principles guiding their substantiation elaboration and implementation The book also delves into the ongoing debate between ranked and rankless taxonomic hierarchies highlighting the author's view of the unique rationality of ranked systems while critically assessing their limitations Whether you are a researcher student or professional in biological systematics this book offers valuable insights into the conceptual underpinnings of hierarchical classifications and their role in advancing scientific understanding

**Biological Systematics** Alessandro Minelli, 2012-12-06 To some potential readers of this book the description of Biological Systematics as an art may seem outdated and frankly wrong For most people art is subjective and unconstrained by universal laws While one picture play or poem may be internally consistent comparison between different art products is meaningless except by way of the individual artists On the other hand modern Biological Systematics particularly phenetics and cladistics is offered as objective and ultimately governed by universal laws This implies that classifications of different groups of organisms being the products of systematics should be comparable irrespective of authorship Throughout this book Minelli justifies his title by developing the theme that biological classifications are in fact very unequal in their expressions of the pattern and processes of the natural world Specialists are imbued with their own groups and tend to establish a consensus of what constitutes a species or a genus or whether it should be desirable to recognize sub species cultivars etc Ornithologists freely recognize subspecies and rarely do bird genera contain more than 10 species On the other hand some coleopterists and botanists work with genera with over 1500 species This asymmetry may reflect a biological reality it may express a working practicality or simply an historical artefact older erected genera often contain more species Rarely are these phenomena questioned

Biological Systematics Randall T. Schuh, Andrew V. Z. Brower, 2011-04-15 Biological Systematics Principles and Applications draws equally from examples in botany and zoology to provide a modern account of cladistic principles and techniques It is a core systematics textbook with a focus on parsimony based approaches for students and biologists interested in systematics and comparative biology Randall T Schuh and Andrew V Z Brower cover the history and philosophy of systematics and nomenclature the mechanics and methods of analysis and evaluation of results the practical applications of results and wider relevance within biological classification biogeography adaptation and coevolution biodiversity and conservation and software applications This new and thoroughly revised edition reflects the exponential growth in the use of DNA sequence data in systematics New data techniques and a notable increase in the number of examples from molecular systematics will be of interest to students increasingly involved in molecular and genetic work

The History and Theory of Vitalism Hans Driesch, 1914

**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

**Milestones in Systematics** David M. Williams, Peter L. Forey, 2004-05-12 Presenting a historical analysis of the evolution of systematics during the last one hundred years *Milestones in Systematics* reviews many of the major issues in systematic theory and practice that have driven the working methods of systematics during the 20th century and looks at the issues most likely to preoccupy systematists in the immediate future

**Biological Systematics** Andrew V. Z. Brower, Randall T. Schuh, 2021 The book addresses the methods and philosophy of biological systematics phylogenetics taxonomy and classification of living things In particular it emphasizes an empirical cladistic approach which espouses minimization of ad hoc hypotheses of evolution via the parsimony criterion for selecting preferred hypotheses of relationships and recognition of groups based upon synapomorphies inferred shared derived character states alone

**Taxonomic Nomenclature** Igor Ya. Pavlinov, 2021-11-09 This book suggests an in depth look at nomenclature in systematics instead of providing another instruction for use of various Codes of nomenclature The focus is on ideas of what taxonomic nomenclature is as a part of the professional language of systematics considered in its full historical and conceptual scope Basic concepts of nomenclature are outlined and their development characterized a hierarchy of fundamental principles of nomenclature are summarized and the relationship between taxonomic nomenclature and taxonomic theory discussed This book is addressed to those who would like to go beyond the boundaries of existing Codes to look at the subject from a more general mostly theoretical standpoint

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**The History of Natural History** Gavin D. R. Bridson, 2008 With over 5 300 added references this revised and updated edition is an essential source of information for scientists researchers and enthusiastic amateurs The History of Natural History is one of those key works that should be kept in easy reach of anyone interested in the study of natural history in all its branches

**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

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