

Stevens

The
Development
of Biological
Systematics

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



COLUMBIA



THE
DEVELOPMENT
OF BIOLOGICAL
SYSTEMATICS

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

Peter F. Stevens

The Development Of Biological Systematics

Gurcharan Singh



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 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 **Biological Systematics** Randall T. Schuh, 2000 Most students who take a course in biological systematics do so to learn how to construct a data matrix and generate and evaluate a tree of phylogenetic relationships Biological Systematics Principles and Applications by Randall T Schuh provides a welcome tool for these students and their instructors it is a comprehensive and completely new textbook the first of its kind since 1981 Systematics the study of the reconstruction of the history of life forms the underlying basis for organizing the knowledge of biology cladistics is the diagrammatic method of charting phylogenetic relationships over time among evolving life forms Cladistics analysis the key tool used in this book is also of great use outside pure systematic studies and interests many students of population biology ecology epidemiology and natural resources Suitable for both graduate and advanced undergraduate students Biological Systematics Principles and Applications covers the core material for courses in biological systematics with equal emphasis on both botany and zoology It includes sections on the history and resources of the field biological nomenclature the theory of homology character analysis and computer algorithms and the application of the results of

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

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

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

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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BIOLOGICAL SCIENCE FUNDAMENTALS AND SYSTEMATICS - Volume I Alessandro Minelli, Giancarlo Contrafatto , 2009-11-10 Biological Science Fundamentals and Systematics is a component of Encyclopedia of Biological

Physiological and Health Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Biological Science Fundamentals and Systematics provides the essential aspects and a myriad of issues of great relevance to our world such as History and Scope of Biological Sciences The Origin and Evolution of Early Life Evolution Classification and Diversity of Life Forms Systematics of Microbial Kingdom s and Fungi Systematic Botany Systematic Zoology Invertebrates Systematic Zoology Vertebrates which are then expanded into multiple subtopics each as a chapter These four volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Homology and Systematics Robert Scotland, R. Toby Pennington, 2014-04-21 When looking at groups of organisms shared characteristics homologues provide the raw data from which hypotheses of common ancestry may be suggested In order to explore the relationship between homologues and particular hypotheses of common ancestry complex matrices are devised where homologues are coded allowing theories of homology to be developed and tested Practically nothing has been written about this matrix building process which is fundamental to our understanding of diversity and evolutionary history This book fills the gap by discussing the ways observations are coded and the consequences for resulting hypotheses using case studies and theoretical examples

The Oxford Companion to the History of Modern Science John L. Heilbron, 2003-02-14 Containing 609 encyclopedic articles written by more than 200 prominent scholars The Oxford Companion to the History of Modern Science presents an unparalleled history of the field invaluable to anyone with an interest in the technology ideas discoveries and learned institutions that have shaped our world over the past five centuries Focusing on the period from the Renaissance to the early twenty first century the articles cover all disciplines Biology Alchemy Behaviorism historical periods the Scientific Revolution World War II the Cold War concepts Hypothesis Space and Time Ether and methodologies and philosophies Observation and Experiment Darwinism Coverage is international tracing the spread of science from its traditional centers and explaining how the prevailing knowledge of non Western societies has modified or contributed to the dominant global science as it is currently understood Revealing the interplay between science and the wider culture the Companion includes entries on topics such as minority groups art religion and science s practical applications One hundred biographies of the most iconic historic figures chosen for their contributions to science and the interest of their lives are also included Above all The Oxford Companion to the History of Modern Science is a companion to world history modern in coverage generous in breadth and cosmopolitan in scope The volume s utility is enhanced by a thematic outline of the entire contents a thorough system of cross referencing and a detailed index that enables the reader to follow a specific line of inquiry along various threads from multiple starting points Each essay has numerous suggestions for further reading all of which favor literature that is accessible to the general reader and a bibliographical essay provides a general overview of the scholarship in the field Lastly as a contribution to the visual appeal

of the Companion over 100 black and white illustrations and an eight page color section capture the eye and spark the imagination

Plant Systematics Michael G. Simpson, 2019-11-10 Plant Systematics Third Edition has made substantial contributions to plant systematics courses at the upper undergraduate and first year graduate level with the first edition winning The New York Botanical Garden's Henry Allan Gleason Award for outstanding recent publication in plant taxonomy plant ecology or plant geography This third edition continues to provide the basis for teaching an introduction to the morphology evolution and classification of land plants A foundation of the approach methods research goals evidence and terminology of plant systematics are presented along with the most recent knowledge of evolutionary relationships of plants and practical information vital to the field In this new edition the author includes greatly expanded treatments on families of flowering plants as well as tropical trees all with full color plates and an updated explanation of maximum likelihood and Bayesian inference algorithms Chapters on morphology and plant nomenclature have also been enhanced with new material Covers research developments in plant molecular biology Features clear detailed cladograms drawings and photos Includes major revisions to chapters on phylogenetic systematics and plant morphology

Organizing the Green World: A Conceptual History of Botanical Classification Tod F. Stuessy, 2025-09-02 This book focuses on plant systematics and evolution with special interest on the history and philosophy of botanical classification Tracing the history of how humans have dealt with ordering the plant world is very much a glimpse of how human culture and science have progressed over the past 2000 years The objective in this book is to present ideas on plant classification beginning with classical Greek and Roman scholars through the Middle Ages into the Renaissance and finally to the modern 21st century Significant quantitative methods in classification have originated within the past 70 years which have never before been integrated with previous historical perspectives Most textbooks of systematic botany contain an historical introduction or perhaps a chapter on the history of classification but this book presents much greater detail on the classifications themselves and the cultural dimensions of the different time periods Biographical detail is also provided to give a better appreciation of the individual botanists who have contributed new ideas in the search for maximally predictive systems

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

Science in the Enlightenment William E. Burns, 2003-11-17 The first introductory A Z resource on the dynamic achievements in science from the late 1600s to 1820 including the great minds behind the developments and science's new cultural role Though the Enlightenment was a time of amazing scientific change science is an often neglected facet of that time Now Science in the Enlightenment redresses the balance by covering all the major scientific developments in the period between Newton's discoveries in the late 1600s to the early 1800s of Michael Faraday and Georges Cuvier Over 200 A Z

entries explore a range of disciplines including astronomy and medicine scientists such as Sir Humphry Davy and Benjamin Franklin and instruments such as the telescope and calorimeter Emphasis is placed on the role of women and proper attention is given to the shifts in the worldview brought about by Newtonian physics Antoine Laurent Lavoisier's chemical revolution and universal systems of botanical and zoological classification Moreover the social impact of science is explored as well as the ways in which the work of scientists influenced the thinking of philosophers such as Voltaire and Denis Diderot and the writers and artists of the romantic movement The Quest for the Invisible Marc J. Ratcliff, 2016-02-24 The eighteenth century has often been viewed as a period of relative decline in the field of microscopy as interest in microscopes seemed to wane after an intense period of discovery in the seventeenth century As such developments in the field during the Enlightenment have been largely overlooked This book therefore fills a considerable gap in the study of this life science providing a thorough analysis of what the main concerns of the field were and how microscopists learned to communicate with each other in relevant ways in order to compare results and build a new discipline Employing a substantial body of contemporary literature from across Europe Marc J Ratcliff is able to present us with a definitive account of the state of research into microscopy of the period He brings to light the little known work of Louis Joblot re evaluates the achievements of Abraham Trembley and gives new weight to Otto Friedrich M ller's important contributions The book also connects changes in instrument design to an innovative account of microscopical research during the eighteenth century and the rich social networks of communication that grew during this period Investigating the history of microscopical research from 1680 up to 1800 also shows how scholars progressively established a modern rule on which to shape their new discipline balancing microscopical magnification with shared vision This rule developed in response to the diminishing size of the microscopical object during the course of the eighteenth century from dry minute organisms such as insects to aquatic minute bodies such as polyps and finally to aquatic invisible organisms thus completing the scholar's quest to study the invisible This book will be essential reading for historians of microscopy epistemologists and for historians of the life sciences in the modern period

Ainsworth & Bisby's Dictionary of the Fungi Geoffrey Clough Ainsworth, 2008 This 10th edition of the acclaimed reference work has more than 21 000 entries and provides the most complete listing available of generic names of fungi their families and orders their attributes and descriptive terms For each genus the authority the date of publication status systematic position number of accepted species distribution and key references are given Diagnoses of families and details of orders and higher categories are included for all groups of fungi In addition there are biographic notes information on well known metabolites and mycotoxins and concise accounts of almost all pure and applied aspects of the subject including citations of important literature Co published by Commonwealth Scientific and Industrial Research Organisation CSIRO

Plant Systematics Gurcharan Singh, 2019-06-07 This fourth edition of Plant Systematics is completely revised and updated It incorporates the updated International Code of Nomenclature for Algae Fungi and Plants Shenzhen Code 2018 the

new version of PhyloCode Beta version of Phylocode 5 2014 APweb version 14 September 2018 revised Angiosperm Phylogeny Group classification APG IV 2016 new Pteridophyte Phylogeny Group Classification PPG I 2016 besides the updates since the publication of third edition The book is a blend of classical fundamental aspects and recent developments especially in the field of molecular systematics cladistics and computer identification Special attention has been given to information on botanical nomenclature identification molecular systematics and phylogeny of angiosperms The complicated concepts of phylogeny taxometrics and cladistics have been explained with a view to providing a comparison between these diverse but interactive fields of study An attempt has been made to build upon a common example when exploring different methods especially in procedures of identification taxometrics and cladistics The major systems of classification are evaluated critically Discussion on major families of Pteridophytes Gymnosperms and Angiosperms especially those of major phylogenetic interest form a major portion of this edition The ebook includes nearly 500 color photographs set out in 36 pages covering plants from different parts of the world In addition 305 black white illustrations have been included to provide a better understanding of the plants covered in the book

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

Annals of the History and Philosophy of Biology 10/2005, 2006 The name DGGB Deutsche Gesellschaft für Geschichte und Theorie der Biologie German Society for the History and Theory of Biology reflects recent history as well as German tradition The Society is a relatively late addition to a series of German societies of science and medicine that began with the Deutsche Gesellschaft für Geschichte der Medizin und der Naturwissenschaften founded in 1910 by Leipzig University's Karl Sudhoff 1853-1938 who wrote We want to establish a German society in order to gather German speaking historians together in our special disciplines so that they form the core of an international society Yet Sudhoff at this time of burgeoning academic internationalism was quite willing to accommodate the wishes of a number of founding members and drop the word German in the title of the Society and have it merge with an international society The founding and naming of the Society at that time derived from a specific set of historical circumstances and the same was true some 80 years later when in 1991 in the wake of German reunification the Deutsche Gesellschaft für Geschichte und Theorie der Biologie was founded From the start the Society has been committed to bringing studies in the history and philosophy of biology to a wide audience using for this purpose its Jahrbuch für Geschichte und Theorie der Biologie Parallel to the Jahrbuch the Verhandlungen zur Geschichte und Theorie der Biologie has become the by now traditional medium for the publication of papers delivered at the Society's annual meetings In 2005 the Jahrbuch was renamed Annals of the History and Philosophy of Biology reflecting the Society's internationalist aspirations in addressing comparative biology as a subject of

historical and philosophical studies **Ethnobiological Classification** Brent Berlin, 2014-07-14 A founder of and leading thinker in the field of modern ethnobiology looks at the widespread regularities in the classification and naming of plants and animals among peoples of traditional nonliterate societies regularities that persist across local environments cultures societies and languages Brent Berlin maintains that these patterns can best be explained by the similarity of human beings largely unconscious appreciation of the natural affinities among groupings of plants and animals people recognize and name a grouping of organisms quite independently of its actual or potential usefulness or symbolic significance in human society Berlin's claims challenge those anthropologists who see reality as a set of culturally constructed often unique and idiosyncratic images little constrained by the parameters of an outside world Part One of this wide ranging work focuses primarily on the structure of ethnobiological classification inferred from an analysis of descriptions of individual systems Part Two focuses on the underlying processes involved in the functioning and evolution of ethnobiological systems in general Originally published in 1992 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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