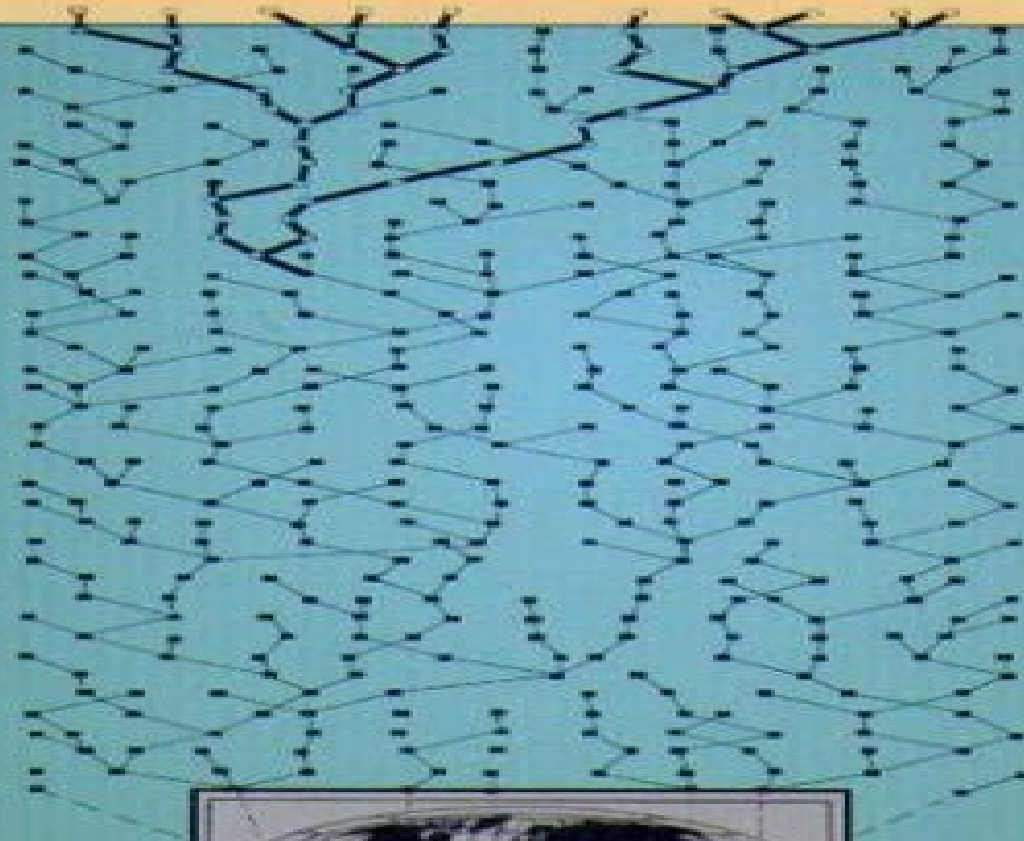




PHYLOGEOGRAPHY

THE HISTORY AND FORMATION
OF SPECIES



JOHN C. AVISE

Phylogeography The History And Formation Of The Species

John C. Avise



Phylogeography The History And Formation Of The Species:

Phylogeography John C. Avise, 2000-01-03 Phylogeography is a discipline concerned with various relationships between gene genealogies phylogenetics and geography This book captures the conceptual and empirical richness of the field and also the sense of genuine innovation that phylogeographic perspectives have brought to evolutionary studies *Advances in the Evolutionary Ecology of Termites* Alberto Arab, Solange Del Carmen Issa Ponce, Daniel Aguilera-Olivares, 2023-08-16 Termites are eusocial insects that live in colonies composed of hundreds to millions of individuals Their colonies are mainly organized into reproductive and non reproductive castes which have specific tasks such as nest construction foraging reproduction brood care and colony defense The evolution of the symbiotic association between termites and microorganisms allows them to decompose ingested lignocellulose from plant substrates such as wood including herbivore dung and soil humus making them important insect decomposers that play a crucial role in ecosystem functioning by contributing to litter decomposition soil formation and nutrient cycling On the other hand termites have recently been classified as eusocial cockroaches which have gained increasing attention in evolutionary studies to understand the transition to eusociality from subsocial wood roaches This current growing interest in termite research calls for a collection dedicated to these fascinating insects

Evolution and Biogeography Martin Thiel, Gary Poore, 2020-03-27 This is the eighth volume of a ten volume series on The Natural History of the Crustacea The volume examines Evolution and Biogeography and the first part of this volume is entirely dedicated to the explanation of the origins and successful establishment of the Crustacea in the oceans In the second part of the book the biogeography of the Crustacea is explored in order to infer how they conquered different biomes globally while adapting to a wide range of aquatic and terrestrial conditions The final section examines more general patterns and processes and the chapters offer useful insight into the future of crustaceans *Evolution and Biodiversity of Wild*

Polyploids Elvira Hörandl, Natascha D. Wagner, Karol Marhold, Christoph Oberprieler, 2021-09-28 [Historical Biogeography of Neotropical Freshwater Fishes](#) James S. Albert, Roberto E. Reis, 2011-03-08 Full of the details we ichthyologists love this book will clearly be a standard reference on South American fishes for decades to come The amazingly detailed glossary alone may well be worth the price of the book Peter B Moyle author of *Inland Fishes of California* A major contribution to our understanding of multiple aspects of the Neotropical freshwater fish fauna The book will be of interest not only to ichthyologists but also to a broader audience of researchers working on freshwater organisms and general biogeographic patterns Richard P Vari National Museum of Natural History Smithsonian Institution An up to date summary of our knowledge of a major continental biodiversity area that should attract a wide variety of readers William Fink University of Michigan Successfully brings together disparate information and introduces new data and analyses giving a vast overview of neotropical freshwater fishes Brian Crother Southeastern Louisiana University **Molecular Ecology and Evolution** John C. Avise, 2010 This volume is a reprinted collection of 69 classics from the Avise laboratory chosen to illustrate a trademark

brand of research that harnesses molecular markers to scientific studies of natural history and evolution in the wild. Spanning the early 1970s through the late 2000s, these articles trace how the author and his colleagues have used molecular genetics techniques to address multifarious conceptual topics in genetics, ecology, and evolution in a fascinating menagerie of creatures with oft peculiar lifestyles. The organisms described in this volume range from blind cavefish to male pregnant pipefishes and sea spiders from clonal armadillos to natal homing marine turtles from hermaphroditic sea snails to hybridizing monkeys and tree frogs from clonal marine sponges to pseudohermaphroditic mollusks to introgressing oysters and from endangered pocket gophers, terrapins, and sparrows to unisexual all female fish species to living fossil horseshoe crabs and even to a strange little fish that routinely mates with itself. The conceptual and molecular topics addressed in this volume are also universal, ranging from punctuated equilibrium to coalescent theory to the need for greater standardization in taxonomy from cytonuclear disequilibrium statistics to the ideas of speciation duration and sympatric speciation from historical population demography to phylogenetic reconstructions of males' sexual ornaments from the population genetic consequences of inbreeding to Pleistocene effects on phylogeography and from the molecular underpinnings of null alleles to the notion of clustered mutations that arise in groups to compelling empirical evidence for the unanticipated processes of gene conversion and concerted evolution in animal mitochondrial DNA. Overall, this collection includes many of the best, most influential, sometimes controversial, occasionally provocative, always intriguing, or otherwise entertaining publications to have emerged from the Avise laboratory over the last four decades. Thus, this book conveys through the eyes of one of the field's longstanding pioneers what the organismal side of molecular ecology and evolution really means.

The SAGE Handbook of Biogeography Andrew Millington, Mark Blumler, Udo Schickhoff, 2011-09-22. A superb resource for understanding the diversity of the modern discipline of biogeography and its history and future, especially within geography departments. I expect to refer to it often. Professor Sally Horn, University of Tennessee. As you browse through this fine book, you will be struck by the diverse topics that biogeographers investigate and the many research methods they use. Biogeography is interdisciplinary, and a commonly voiced concern is that one biogeographer may not readily understand another's research findings. A handbook like this is important for synthesising, situating, explaining, and evaluating a large literature and pointing the reader to informative publications. Geographical Research: A valuable contribution in both a research and teaching context. If you are biologically trained, it provides an extensive look into the geographical tradition of biogeography, covering some topics that may be less familiar to those with an evolution/ecology background. Alternatively, if you are a geography student, researcher, or lecturer, it will provide a useful reference and will be invaluable to the non-biogeographer who suddenly has the teaching of an introductory biogeography course thrust upon them. Adam C. Algar, *Frontiers of Biogeography*. The SAGE Handbook of Biogeography is a manual for scoping the past, present, and future of biogeography that enable readers to consider where relevant how similar biogeographical issues are tackled by researchers in different schools. In line

with the concept of all SAGE Handbooks this is a retrospective and prospective overview of biogeography that will Consider the main areas of biogeography researched by geographers Detail a global perspective by incorporating the work of different schools of biogeographers Explore the divergent evolution of biogeography as a discipline and consider how this diversity can be harnessed Examine the interdisciplinary debates that biogeographers are contributing to within geography and the biological sciences Aimed at an international audience of research students academics researchers and practitioners in biogeography the text will attract interest from environmental scientists ecologists biologists and geographers alike

Handbook of Fish Biology and Fisheries Paul J. B. Hart, John D. Reynolds, 2008-04-15 Recent decades have witnessed strong declines in fish stocks around the globe amid growing concerns about the impact of fisheries on marine and freshwater biodiversity Fisheries biologists and managers are therefore increasingly asking about aspects of ecology behaviour evolution and biodiversity that were traditionally studied by people working in very separate fields This has highlighted the need to work more closely together in order to help ensure future success both in management and conservation The Handbook of Fish Biology and Fisheries has been written by an international team of scientists and practitioners to provide an overview of the biology of freshwater and marine fish species together with the science that supports fisheries management and conservation This volume subtitled Fish Biology reviews a broad variety of topics from evolutionary relationships and global biogeography to physiology recruitment life histories genetics foraging behaviour reproductive behaviour and community ecology The second volume subtitled Fisheries uses much of this information in a wide ranging review of fisheries biology including methods of capture marketing economics stock assessment forecasting ecosystem impacts and conservation Together these books present the state of the art in our understanding of fish biology and fisheries and will serve as valuable references for undergraduates and graduates looking for a comprehensive source on a wide variety of topics in fisheries science They will also be useful to researchers who need up to date reviews of topics that impinge on their fields and decision makers who need to appreciate the scientific background for management and conservation of aquatic ecosystems To order volume I go to the box in the top right hand corner Alternatively to order volume II go to <http://www.blackwellpublishing.com/book.asp/ref/063206482X> or to order the 2 volume set go to <http://www.blackwellpublishing.com/book.asp/ref/0632064838> Provides a unique overview of the study of fish biology and ecology and the assessment and management of fish populations and ecosystems The first volume concentrates on aspects of fish biology and ecology both at the individual and population levels whilst the second volume addresses the assessment and management of fish populations and ecosystems Written by an international team of expert scientists and practitioners An invaluable reference tool for both students researchers and practitioners working in the fields of fish biology and fisheries

Echinoderms: Munchen Thomas Heinzeller, James H. Nebelsick, 2004-12-15 Since 1972 scientists from all over the world working on fundamental questions of echinoderm biology and palaeontology have conferred every three years to exchange current views and results The 11th

International Echinoderm Conference held at the University of Munich Germany from 6-10 October 2003 continued this tradition. This volume **Biology of Sharks and Their Relatives** Jeffrey C. Carrier, John A. Musick, Michael R. Heithaus, 2004-03-29 Winner of Choice Magazines Outstanding Academic Title award January 2005. Sharks and their relatives are the subjects of tremendous interest. The public's fascination is influenced by their roles in movies and popular literature while the media races to cover stories of predators endangering helpless humans. The alarming threat to shark populations.

Evolution in Action Matthias Glaubrech, 2010-07-24. Radiations or Evolution in Action. We have just celebrated the Darwin Year with the double anniversary of his 200th birthday and 150th year of his masterpiece *On the Origin of Species* by means of Natural Selection. In this work Darwin established the factual evidence of biological evolution that species change over time and that new organisms arise by the splitting of ancestral forms into two or more descendant species. However, above all, Darwin provided the mechanisms by arguing convincingly that it is by natural selection as well as by sexual selection as he later added that organisms adapt to their environment. The many discoveries since then have essentially confirmed and strengthened Darwin's central theses with latest evidence, for example from molecular genetics revealing the evolutionary relationships of all life forms through one shared history of descent from a common ancestor. We have also come a long way to progressively understand more on how new species actually originate, i.e. on speciation, which remained Darwin's mystery of mysteries as noted in one of his earliest transmutation notebooks. Since speciation is the underlying mechanism for radiations, it is the ultimate causation for the biological diversity of life that surrounds us. **Biogeography** Eric

Guilbert, 2022-01-26. The recent progress in analytical methods aided by bringing in a wide range of other disciplines opens up the study to a broader field which means that biogeography now goes far beyond a simple description of the distribution of living species on Earth. Originating with Alexander von Humboldt, biogeography is a discipline in which ecologists and evolutionists aim to understand the way that living species are organized in connection with their environments. Today, as we face major challenges such as global warming, massive species extinction, and devastating pandemics, biogeography offers hypotheses and explanations that may help to provide solutions. This book presents as wide an overview as possible of the different fields that biogeography interacts with. Sixteen authors from all over the world offer different approaches based on their specific areas of knowledge and experience; thus, we intend to illustrate the vast number of diverse aspects covered by biogeography. **The Ecology of Marine Fishes** Dr. Larry G. Allen, Dr. Michael H. Horn, 2006-02-15. Marine fishes have been intensively studied and some of the fundamental ideas in the science of marine ecology have emerged from the body of knowledge derived from this diverse group of organisms. This unique authoritative and accessible reference compiled by 35 luminary ecologists, evolutionary biologists, and ichthyologists provides a synthesis and interpretation of the large, often daunting body of information on the ecology of marine fishes. The focus is on the fauna of the eastern Pacific, especially the fishes of the California coast, a group among the most diverse and best studied of all marine ecosystems. A generously

illustrated and comprehensive source of information this volume will also be an important launching pad for future research and will shed new light on the study of marine fish ecology worldwide The contributors touch on many fields in biology including physiology development genetics behavior ecology and evolution The book includes sections on the history of research both published and unpublished data sections on collecting techniques and references to important earlier studies

Evolutionary Biogeography Juan Morrone, 2009 Rather than favoring only one approach Juan J Morrone proposes a comprehensive treatment of the developments and theories of evolutionary biogeography Evolutionary biogeography uses distributional phylogenetic molecular and fossil data to assess the historical changes that have produced current biotic patterns Panbiogeography parsimony analysis of endemism cladistic biogeography and phylogeography are the four recent and most common approaches Many conceive of these methods as representing different schools but Morrone shows how each addresses different questions in the various steps of an evolutionary biogeographical analysis Panbiogeography and parsimony analysis of endemism are useful for identifying biotic components or areas of endemism Cladistic biogeography uses phylogenetic data to determine the relationships between these biotic components Further information on fossils phylogeographic patterns and molecular clocks can be incorporated to identify different cenocrons Finally available geological knowledge can help construct a geobiotic scenario that may explain how analyzed areas were put into contact and how the biotic components and cenocrons inhabiting them evolved Morrone compares these methods and employs case studies to make it clear which is best for the question at hand Set problems discussion sections and glossaries further enhance classroom use Publisher's description

On Evolution John C. Avise, 2007-08-14 John Avise is one of the most distinguished evolutionary biologists of our time His groundbreaking work with mitochondrial DNA created the entire discipline of phylogeography and his work on the Pleistocene refugia hypothesis redirected scientific thinking about patterns of distribution Spanning a remarkable thirty five year career the essays gathered here were rewritten from his previously published articles and represent the first single volume collection of Avise's work Moving through various questions in evolutionary biology these eclectic essays reveal Avise's unique perspectives on major topics in the field From how to define a species to the folly of faulty applications of cladistics to connections between conservation and evolutionary biology *On Evolution* takes the reader on a personal journey into the mind of one of the world's leading evolutionists Danny Yee

Amazonia: Landscape and Species Evolution Carina Hoorn, Frank Wesselingh, 2011-09-26 The book focuses on geological history as the critical factor in determining the present biodiversity and landscapes of Amazonia The different driving mechanisms for landscape evolution are explored by reviewing the history of the Amazonian Craton the associated sedimentary basins and the role of mountain uplift and climate change This book provides an insight into the Meso and Cenozoic record of Amazonia that was characterized by fluvial and long lived lake systems and a highly diverse flora and fauna This fauna includes giants such as the ca 12 m long caiman *Purussaurus* but also a varied fish fauna and fragile

molluscs whilst fossil pollen and spores form relics of ancestral swamps and rainforests Finally a review the molecular datasets of the modern Amazonian rainforest and aquatic ecosystem discussing the possible relations between the origin of Amazonian species diversity and the palaeogeographic palaeoclimatic and palaeoenvironmental evolution of northern South America The multidisciplinary approach in evaluating the history of Amazonia has resulted in a comprehensive volume that provides novel insights into the evolution of this region Encyclopedia of the World's Biomes ,2020-06-26 Encyclopedia of the World's Biomes is a unique five volume reference that provides a global synthesis of biomes including the latest science All of the book's chapters follow a common thematic order that spans biodiversity importance principal anthropogenic stressors and trends changing climatic conditions and conservation strategies for maintaining biomes in an increasingly human dominated world This work is a one stop shop that gives users access to up to date informative articles that go deeper in content than any currently available publication Offers students and researchers a one stop shop for information currently only available in scattered or non technical sources Authored and edited by top scientists in the field Concisely written to guide the reader though the topic Includes meaningful illustrations and suggests further reading for those needing more specific information *Molecular Pharmacognosy* Lu-qi Huang,2019-11-27 This book discusses the application of molecular biology in resource science and authentication of traditional Chinese medicine TCM It also reviews the latest developments in pharmacognosy introduces new perspectives and insights discusses the hotspots and focuses in the field of molecular pharmacognosy and predicts new directions of study In the last five years the technologies and scope of molecular pharmacognosy have constantly expanded and evolved As such this new edition includes extra content such as the molecular phylogeography of medicinal plants functional genome of medicinal plants and synthetic biology of active compounds Elucidating the concept theory and methodology of molecular pharmacognosy it promotes the full use of the newly developed technologies and methodologies within the framework of molecular pharmacognosy to solve problems in the field

Encyclopedia of Caves William B. White,David C. Culver,2012-01-24 Encyclopedia of Caves is a self contained beautifully illustrated work dedicated to caves and their unique environments It includes more than 100 comprehensive articles from leading scholars and explorers in 15 different countries Each entry is detailed and scientifically sound yet accessible for students and non scientists This large format reference is enhanced with hundreds of full color photographs maps and drawings from the authors own work which provide unique images of the underground environment Global in reach authors are an international team of experts covering caves from around the world Includes 24 new articles commissioned especially for this 2nd edition Articles contain extensive bibliographies cross referencing related essays Hundreds of color photographs maps charts and illustrations of cave features and biota A Z sequence and a comprehensive index allow for easy location of topics Glossary presents definitions of all key vocabulary items Ethnobotany of Mexico Rafael Lira,Alejandro Casas,José Blancas,2016-04-23 This book reviews the history current state of knowledge and different research approaches and

techniques of studies on interactions between humans and plants in an important area of agriculture and ongoing plant domestication Mesoamerica Leading scholars and key research groups in Mexico discuss essential topics as well as contributions from international research groups that have conducted studies on ethnobotany and domestication of plants in the region Such a convocation will produce an interesting discussion about future investigation and conservation of regional human cultures genetic resources and cultural and ecological processes that are critical for global sustainability

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