

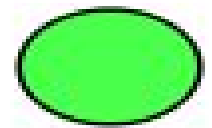
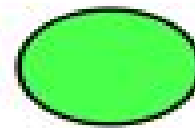
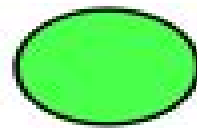
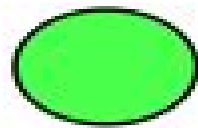
Allopatric

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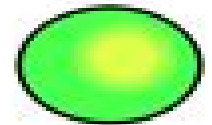
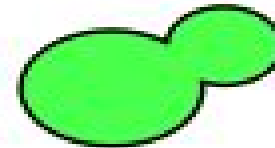
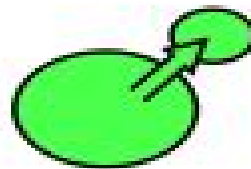
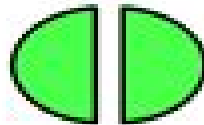
Parapatric

Sympatric

Original
population



Initial step of
speciation



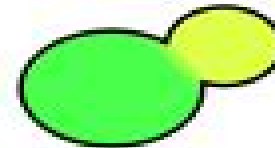
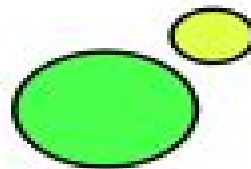
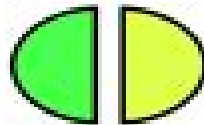
Barrier
formation

New niche
entered

New niche
entered

Genetic
polymorphism

Evolution of
reproductive
isolation



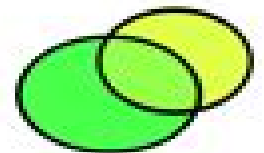
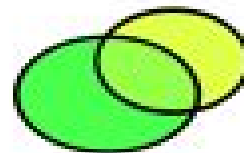
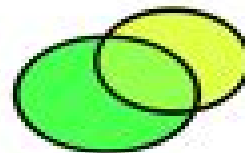
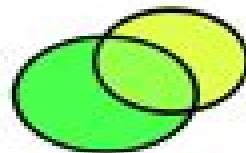
In isolation

In isolated
niche

In adjacent
niche

Within the
population

New distinct
species after
equilibration
of new ranges



Modes Of Speciation

Michael James Denham White



Modes Of Speciation:

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

Molecular Approaches to Ecology and Evolution R. deSalle, B. Schierwater, 2012-12-06 Four years ago we edited a volume of 36 papers entitled Molecular Approaches to Ecology and Evolution Schierwater et al 1994 in which we attempted to put together a diverse array of papers that demonstrated the impact that the technological revolution of molecular biology has had on the field of evolutionary biology and ecology The present volume borrows from that theme but attempts to focus more sharply on the impact that molecular biology has had on our understanding of different hierarchical levels important in evolutionary and ecological studies Because DNA sequence variation is at the heart of every paper in the present volume we feel it necessary to examine how DNA has affected study at various levels of biological organization The majority of the chapters in the present volume follow themes established in the earlier volume all chapters by authors in the previous volume are either fully updated or entirely new and expand into areas that we felt were important for a more complete understanding of the impact of DNA technology on ecology and evolution The collection of papers in this volume cover a diverse array of ecological and evolutionary questions and demonstrates the breadth of coverage molecular technology has imparted on modern evolutionary biology There are also a broad range of hierarchical questions approached by the 17 papers in this volume

The Princeton Guide to Evolution David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski, Allen J.

Moore, Catherine L. Peichel, Dolph Schluter, Michael C. Whitlock, 2017-03-21 The essential one volume reference to evolution The Princeton Guide to Evolution is a comprehensive concise and authoritative reference to the major subjects and key concepts in evolutionary biology from genes to mass extinctions Edited by a distinguished team of evolutionary biologists with contributions from leading researchers the guide contains some 100 clear accurate and up to date articles on the most important topics in seven major areas phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society Complete with more than 100 illustrations including eight pages in color glossaries of key terms suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students scientists in related fields and anyone else with a serious interest in evolution Explains key topics in some 100 concise and authoritative articles written by a team of leading evolutionary biologists Contains more than 100 illustrations including eight pages in color Each article includes an outline glossary bibliography and cross references Covers phylogenetics and the history of life selection and adaptation evolutionary processes genes genomes and phenotypes speciation and macroevolution evolution of behavior society and humans and evolution and modern society **Essential Readings in Evolutionary Biology** Francisco J. Ayala, John C. Avise, 2014-03-15 Traces scholarly thought from the nineteenth century birth of evolutionary biology to the mapping of the human genome through forty eight essays arranged in chronological order each preceded by a one page essay that explains the significance of the chosen work **Hierarchical Evolutionary-Developmental Theory** Carlos Ochoa, 2025-06-23 This book introduces a new evolutionary model called Hierarchical Evolutionary Developmental Theory or H Evo Devo Theory This theory proposes that the organism's internal properties reflect entities that are highly integrated in developmental terms that evolve hierarchically In other words it attempts to demonstrate that developmental constraints operate at different scales producing distinct states of morphological stability reflected as subspecies species higher taxa and homologues all representing units of evolution In addition it reintroduces the concept of the organism in evolutionary biology supports a strictly macroevolutionary view and contemplates alternative evolutionary rates processes and mechanisms at different levels microevolution macroevolution megaevolution and modular evolution In short this book establishes a new synthesis between systematics morphology and evolution suggesting a significant shift in evolutionary thought The book comprises 1 A proposal for a new theory of evolution and systematics The H Evo Devo Theory reinterprets the concepts of subspecies species higher taxa and homologues proposing that the phylogenetic tree is built on a hierarchy of types developed from the top down in contrast to the traditional bottom up approach 2 A novel hierarchical perspective that reveals the underlying mechanisms acting on the patterns of divergence stability and extinction of the units of evolution 3 A resolution to the ontological problem regarding units of evolution e g the reality of species and higher taxa 4 A historical narrative that focuses on the development of a

hierarchy theory of evolution grounded in the type concept and the significance of an organism centered perspective 5 A challenge to traditional frameworks that have sought to establish hierarchies in an evolutionary context 6 A challenge to classical evolutionary statements such as gradualism punctuated equilibrium the extrapolationist premise and geographical models of speciation This book is written for those who feel that radical change is needed in evolutionary theory offering them a viable alternative

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

The Evolutionary Strategies that Shape Ecosystems J. Philip Grime, Simon Pierce, 2012-03-26 THE EVOLUTIONARY STRATEGIES THAT SHAPE ECOSYSTEMS In 1837 a young Charles Darwin took his notebook wrote I think and then sketched a rudimentary stick like tree Each branch of Darwin s tree told a story of survival and adaptation adaptation of animals and plants not just to the environment but also to life with other living things However more than 150 years since Darwin published his singular idea of natural selection the science of ecology has yet to account for how contrasting evolutionary outcomes affect the ability of organisms to coexist in communities and to regulate ecosystem functioning In this book Philip Grime and Simon Pierce explain how evidence from across the world is revealing that beneath the wealth of apparently limitless and bewildering variation in detailed structure and functioning the essential biology of all organisms is subject to the same set of basic interacting constraints on life history and physiology The inescapable resulting predicament during the evolution of every species is that according to habitat each must adopt a predictable compromise with regard to how they use the resources at their disposal in order to survive The compromise involves the investment of resources in either the effort to acquire more resources the tolerance of factors that reduce metabolic performance or reproduction This three way trade off is the irreducible core of the universal adaptive strategy theory which Grime and Pierce use to investigate how two environmental filters selecting respectively for convergence and divergence in organism function determine the identity of organisms in communities and ultimately how different evolutionary strategies affect the functioning of ecosystems This book reflects an historic phase in which evolutionary processes are finally moving centre stage in the effort to unify ecological theory and animal plant and microbial ecology have

begun to find a common theoretical framework Companion website This book has a companion website [www.wiley.com/go](http://www.wiley.com/go/grime) grime evolutionary strategies with Figures and Tables from the book for downloading

The Adaptive Seascape David J. Merrell, 1994 Based on observational and experimental data in natural populations of plants and animals studied in the field and in the laboratory this perspective unravels the hidden and often poorly founded assumptions underlying some of the more troublesome controversies in evolutionary biology today

Divergence with Genetic Exchange Michael L. Arnold, 2015-10-22 The study of genetic exchange resulting from natural hybridization horizontal gene transfer and viral recombination has long been marked by controversy between researchers holding different conceptual frameworks Those subscribing to a doctrine of species purity have traditionally been reluctant to recognise inferences suggesting anything other than a marginal role for non allopatric divergence leading to gene transfer between different lineages However an increasing number of evolutionary biologists now accept that there is a growing body of evidence indicating the existence of non allopatric diversification across many lineages and all domains of biological diversity Divergence with Genetic Exchange investigates the mechanisms associated with evolutionary divergence and diversification focussing on the role played by the exchange of genes between divergent lineages a process recently termed divergence with gene flow Although the mechanisms by which such divergent forms of life exchange genomic material may differ widely the outcomes of interest adaptive evolution and the formation of new hybrid lineages do not

Successive chapters cover the history of the field detection methodologies outcomes implications for conservation programs and the effects on the human lineage associated with the process of genetic transfer between divergent lineages This research level text is suitable for senior undergraduate and graduate level students taking related courses in departments of genetics ecology and evolution It will also be of relevance and use to professional evolutionary biologists and systematists seeking a comprehensive and authoritative overview of this rapidly expanding field

Systematics, Biodiversity and Evolution Mr. Rohit Manglik, 2024-06-24 Explores taxonomy biodiversity and evolutionary biology focusing on species classification phylogenetic analysis and conservation strategies

The Nature of Diversity Daniel R. Brooks, Deborah A. McLennan, 2012-04-26 All living things on earth from individual species to entire ecosystems have evolved through time and evolution is the acknowledged framework of modern biology Yet many areas of biology have moved from a focus on evolution to much narrower perspectives Daniel R Brooks and Deborah A McLennan argue that it is impossible to comprehend the nature of life on earth unless evolution the history of organisms is restored to a central position in research They demonstrate how the phylogenetic approach can be integrated with ecological and behavioral studies to produce a richer and more complete picture of evolution Clearly setting out the conceptual methodological and empirical foundations of their research program Brooks and McLennan show how scientists can use it to unravel the evolutionary history of virtually any characteristic of any living thing from behaviors to ecosystems They illustrate and test their approach with examples drawn from a wide variety of species and habitats The Nature of

Diversity provides a powerful new tool for understanding documenting and preserving the world's biodiversity. It is an essential book for biologists working in evolution ecology behavior conservation and systematics. The argument in *The Nature of Diversity* greatly expands upon and refines the arguments made in the authors' previous book *Phylogeny Ecology and Behavior: Modes of Speciation*. Michael James Denham White, 1978. *Understanding Scientific Theories of Origins*. Robert C. Bishop, Larry L. Funck, Raymond J. Lewis, Stephen O. Moshier, John H. Walton, 2018-12-04. From five authors with over two decades of experience teaching origins together in the classroom, this is the first textbook to offer a full-fledged discussion of the scientific narrative of origins from the Big Bang through humankind from biblical and theological perspectives. This work gives the reader a detailed picture of mainstream scientific theories of origins along with how they fit into the story of God's creative and redemptive action. *Biotic Interactions in Recent and Fossil Benthic Communities*. Michael J.S. Tevesz, Peter L. McCall, 2014-07-22. *The Biology of Rarity*. W.E. Kunin, K.J. Gaston, 2012-12-06. This book began life as a review article. That article spawned a symposium which was in turn greatly expanded to form the present volume. As the project moved through these developmental stages, hopefully towards attainment of its full maturity, a number of people have provided invaluable assistance to us, and we would like to take this opportunity to thank them. Gordon Orians must certainly take a high place in that list. He has been both a friend and mentor to W.E.K. and many of the topics explored in this book have emerged from the resultant dialogue. His thought processes, ideas, and perhaps even some of his turns of phrase emerge throughout much of the book. Gordon also played a pivotal role in inviting in motion, and so he has served as a catalyst. The article that set this project to the book, as well as one of its reagents. While he has not served as an editor of this book, he is one of its authors in more than just the literal sense.

Taxonomy & Evolution. Mr. Rohit Manglik, 2024-07-03. EduGorilla Publication is a trusted name in the education sector, committed to empowering learners with high-quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

Encyclopedia of Evolutionary Biology, 2016-04-14. *Encyclopedia of Evolutionary Biology* Four Volume Set is the definitive go-to reference in the field of evolutionary biology. It provides a fully comprehensive review of the field in an easy-to-search structure. Under the collective leadership of fifteen distinguished section editors, it is comprised of articles written by leading experts in the field, providing a full review of the current status of each topic. The articles are up-to-date and fully illustrated, with in-text references that allow readers to easily access primary literature. While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology, they are also intended to be accessible to both advanced undergraduate and graduate students. Broad topics include the history of evolutionary biology, population genetics, quantitative genetics, speciation, life history, evolution, evolution of sex and mating systems, evolutionary biogeography, evolutionary developmental biology, molecular and genome evolution, coevolution, phylogenetic methods, microbial evolution, diversification of plants and fungi.

diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

Fitness Landscapes and the Origin of Species Sergey Gavrilets, 2018-06-05 The origin of species has fascinated both biologists and the general public since the publication of Darwin's *Origin of Species* in 1859 Significant progress in understanding the process was achieved in the modern synthesis when Theodosius Dobzhansky Ernst Mayr and others reconciled Mendelian genetics with Darwin's natural selection Although evolutionary biologists have developed significant new theory and data about speciation in the years since the modern synthesis this book represents the first systematic attempt to summarize and generalize what mathematical models tell us about the dynamics of speciation *Fitness Landscapes and the Origin of Species* presents both an overview of the forty years of previous theoretical research and the author's new results Sergey Gavrilets uses a unified framework based on the notion of fitness landscapes introduced by Sewall Wright in 1932 generalizing this notion to explore the consequences of the huge dimensionality of fitness landscapes that correspond to biological systems In contrast to previous theoretical work which was based largely on numerical simulations Gavrilets develops simple mathematical models that allow for analytical investigation and clear interpretation in biological terms Covering controversial topics including sympatric speciation and the effects of sexual conflict on speciation this book builds for the first time a general quantitative theory for the origin of species

Frontiers in Developmental Biology Robert A. Meyers, 2019-04-02 Dieser aktuelle Band aus der renommierten enzyklopädischen Reihe ist der erste in vielen Jahren der alle wichtigen Aspekte der Entwicklungsbiologie vereint von der Morphogenese und Organogenese über die epigenetische Regulation der Genexpression bis hin zur evolutionären Entwicklungsbiologie Der Herausgeber hat ein herausragendes Team zusammengestellt das diese Themen beleuchtet und damit ein wegweisendes Werk für die kommenden Jahre geschaffen Das Ergebnis ist ein einzigartiges herausragendes Referenzwerk der Entwicklungsbiologie für Forscher Studenten und Fachexperten

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 imbibed 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

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