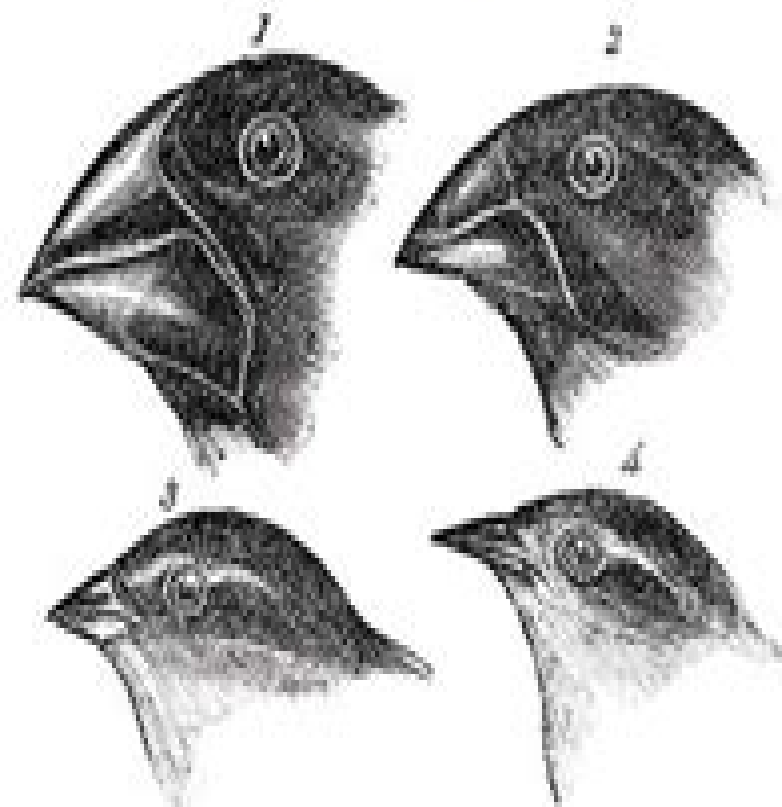


Speciation

definition, causes, process,
types, examples



1. *Geophis maculatus*,
3. *Geophis parvulus*

2. *Geophis barth*,
4. *Crotalus viridis*

Original
population

Initial step of
speciation

Evolution of
reproductive
isolation

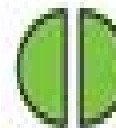
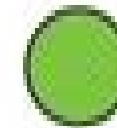
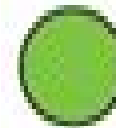
New distinct
species after
equilibration
of new ranges

Allopatric

Peripatric

Parapatric

Sympatric



Barrier
formation



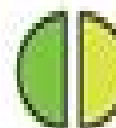
New niche
entered



New niche
entered



Genetic
polymorphism



In isolation



In isolated
niche



In adjacent
niche



Within the
population



Adaptive Speciation

Zhe Xu



Adaptive Speciation:

Adaptive Speciation Ulf Dieckmann, 2004-09-02 First published in 2004 this book by internationally recognized leaders in the field clarifies how adaptive processes rather than geographic isolation can cause speciation **Adaptive Diversification** Michael Doebeli, 2011-08-21 Adaptive biological diversification occurs when frequency dependent selection generates advantages for rare phenotypes and induces a split of an ancestral lineage into multiple descendant lineages Using adaptive dynamics theory individual based simulations and partial differential equation models this book illustrates that adaptive diversification due to frequency dependent ecological interaction is a theoretically ubiquitous phenomenon Provided by publisher *The Adaptive Landscape in Evolutionary Biology* Erik I. Svensson, Ryan Calsbeek, 2012-05-17 The Adaptive Landscape has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated in 1932 This volume brings together historians of science philosophers ecologists and evolutionary biologists to discuss the state of the art from several different perspectives **Adaptationism and Optimality** Steven Hecht Orzack, Elliott Sober, 2001-06-04 The debate over the relative importance of natural selection as compared to other forces affecting the evolution of organisms is a long standing and central controversy in evolutionary biology The theory of adaptationism argues that natural selection contains sufficient explanatory power in itself to account for all evolution However there are differing views about the efficiency of the adaptation model of explanation If the adaptationism theory is applied are energy and resources being used to their optimum This book presents an up to date view of this controversy and reflects the dramatic changes in our understanding of evolution that have occurred in the last twenty years The volume combines contributions from biologists and philosophers and offers a systematic treatment of foundational conceptual and methodological issues surrounding the theory of adaptationism The essays examine recent developments in topics such as phylogenetic analysis the theory of optimality and ess models and methods of testing models **Evolutionary Conservation Biology** Régis Ferrière, Ulf Dieckmann, Denis Couvet, 2004-06-10 As anthropogenic environmental changes spread and intensify across the planet conservation biologists have to analyze dynamics at large spatial and temporal scales Ecological and evolutionary processes are then closely intertwined In particular evolutionary responses to anthropogenic environmental change can be so fast and pronounced that conservation biology can no longer afford to ignore them To tackle this challenge areas of conservation biology that are disparate ought to be integrated into a unified framework Bringing together conservation genetics demography and ecology this book introduces evolutionary conservation biology as an integrative approach to managing species in conjunction with ecological interactions and evolutionary processes Which characteristics of species and which features of environmental change foster or hinder evolutionary responses in ecological systems How do such responses affect population viability community dynamics and ecosystem functioning Under which conditions will evolutionary responses ameliorate rather than worsen the impact of environmental change **The**

Ecological Consequences of Environmental Heterogeneity British Ecological Society. Symposium, 2000-08 The last decade has seen countless advances in the measurement and interpretation of the impacts of environmental heterogeneity upon organisms and ecological processes Progress has been made at a variety of scales of organisation Following a Symposium on Ecological Consequences of Environmental Heterogeneity a team of international experts has collaborated to produce this volume It discusses the effects of environmental heterogeneity the effects of spatial and temporal heterogeneity on individuals populations communities and biodiversity and the management and conservation implications of environment heterogeneity This book will prove to be an invaluable reference work not only to advanced students but also established researchers working in the field

Eco-Evolutionary Dynamics Andrew P. Hendry, 2016-11-22 In recent years scientists have realized that evolution can occur on timescales much shorter than the long lapse of ages emphasized by Darwin in fact evolutionary change is occurring all around us all the time This book provides an authoritative and accessible introduction to eco evolutionary dynamics a cutting edge new field that seeks to unify evolution and ecology into a common conceptual framework focusing on rapid and dynamic environmental and evolutionary change Andrew Hendry covers key aspects of evolution ecology and their interactions Topics range from natural selection adaptive divergence ecological speciation and gene flow to population and community dynamics ecosystem function plasticity and genomics Hendry evaluates conceptual and methodological approaches and draws on empirical data from natural populations including those in human disturbed environments to tackle a number of classic and emerging research questions He also discusses exciting new directions for future research at the intersection of ecology and evolution An invaluable guide for students and researchers alike

Eco evolutionary Dynamics reveals how evolution and ecology interact strongly on short timescales to shape the world we see around us

Molecular Evolution and Adaptive Radiation Thomas J. Givnish, Kenneth J. Sytsma, 2000-05-08 This volume surveys advances in the study of adaptive radiation showing how molecular characters can be used to analyze the origin and pattern of diversification within a lineage in a non circular fashion

Mathematics for Ecology and Environmental Sciences Yasuhiro Takeuchi, Yoh Iwasa, Kazunori Sato, 2007-01-19 Dynamical systems theory in mathematical biology has attracted much attention from many scientific directions The purpose of this volume is to discuss the many rich and interesting properties of dynamical systems that appear in ecology and environmental sciences The main topics include population dynamics with dispersal nonlinear discrete population dynamics structured population models mathematical models in evolutionary ecology stochastic spatial models in ecology game dynamics and the chemostat model Each chapter will serve to introduce students and scholars to the state of the art in an exciting area to present important new results and to inspire future contributions to mathematical modeling in ecology and environmental sciences

Modular Evolution Lucio Vinicius, 2010-07-15 Natural selection is more than the survival of the fittest it is a force engendering higher biological complexity Presenting a new explanation for the tendency of life to become more complex through evolution this book offers

an introduction to the key debates in evolutionary theory including the role of genes and sex in evolution the adaptive reasons for senescence and death and the origin of neural information The author argues that biological complexity increased through the process of modularity transfer modular phenotypes proteins somatic cells learned behaviours evolved into new modular information carriers regulatory proteins neural cells words giving rise to new information systems and higher levels of biological organisation Modular Evolution makes sense of the unique place of humans in evolution both as the pinnacle of biological complexity and inventors of non biological evolution *Ornithology, Evolution, and Philosophy* Jürgen Haffer, 2007-08-16 This book is the first detailed biography of Ernst Mayr He was an architect of the Synthetic Theory of Evolution and the greatest evolutionary biologist since Charles Darwin influential historian and philosopher of biology outstanding taxonomist and ornithologist and naturalist He is one of the most widely known biologists of the 20th century Mayr used the theories of natural selection and population thinking as theoretical models within the framework of historical biological studies He was the first to emphasize the role of biopopulations thereby pointing out the basic difference between population thinking and typological essentialism **Selection** Graham Bell, 2008 This book adopts a direct experimental approach to evolutionary questions drawing predominantly from research on microbial systems The focus is on processes and mechanisms and incorporates insights from recent advances in whole genome sequencing bioinformatics environmental genomics and developmental genetics **Conceptual Breakthroughs in Evolutionary Genetics** John C. Avise, 2014-01-18 Conceptual Breakthroughs in Evolutionary Genetics is a pithy lively book occupying a special niche the conceptual history of evolutionary genetics not inhabited by any other available treatment Written by a world leading authority in evolutionary genetics this work encapsulates and ranks 70 of the most significant paradigm shifts in evolutionary biology and genetics during the century and a half since Darwin and Mendel The science of evolutionary genetics is central to all of biology but many students and other practitioners have little knowledge of its historical roots and conceptual developments This book fills that knowledge gap in a thought provoking and readable format This fascinating chronological journey along the many conceptual pathways to our modern understanding of evolutionary and genetic principles is a wonderful springboard for discussions in undergraduate or graduate seminars in evolutionary biology and genetics But more than that anyone interested in the history and philosophy of science will find much of value between its covers Provides a relative ranking of 70 seminal breakthroughs and paradigm shifts in the field of evolutionary biology and genetics Modular format permits ready access to each described subject Historical overview of a field whose concepts are central to all of biology and relevant to a broad audience of biologists science historians and philosophers of science Extensively cross referenced with a guide to landmark papers and books for each topic **Proceedings RMRS. ,1998 Santa Rita Experimental Range--100 Years (1903 to 2003) of Accomplishments and Contributions ,2003 Seed and Soil Dynamics in Shrubland Ecosystems** Ann L. Hild, 2004 Ecological Genomics Christian R. Landry, Nadia Aubin-Horth, 2013-11-25 Researchers in the

field of ecological genomics aim to determine how a genome or a population of genomes interacts with its environment across ecological and evolutionary timescales Ecological genomics is trans disciplinary by nature Ecologists have turned to genomics to be able to elucidate the mechanistic bases of the biodiversity their research tries to understand Genomicists have turned to ecology in order to better explain the functional cellular and molecular variation they observed in their model organisms We provide an advanced level book that covers this recent research and proposes future development for this field A synthesis of the field of ecological genomics emerges from this volume Ecological Genomics covers a wide array of organisms microbes plants and animals in order to be able to identify central concepts that motivate and derive from recent investigations in different branches of the tree of life Ecological Genomics covers 3 fields of research that have most benefited from the recent technological and conceptual developments in the field of ecological genomics the study of life history evolution and its impact of genome architectures the study of the genomic bases of phenotypic plasticity and the study of the genomic bases of adaptation and speciation

Parasite Diversity and Diversification Serge Morand, Boris R. Krasnov, D. Timothy J. Littlewood, 2015-02-26 By joining phylogenetics and evolutionary ecology this book explores the patterns of parasite diversity while revealing diversification processes

Encyclopedia of Theoretical Ecology Alan Hastings, Louis J. Gross, 2012-05-31 A bold and successful attempt to illustrate the theoretical foundations of all of the subdisciplines of ecology including basic and applied and extending through biophysical population community and ecosystem ecology Encyclopedia of Theoretical Ecology is a compendium of clear and concise essays by the intellectual leaders across this vast breadth of knowledge Harold Mooney Stanford University A remarkable and indispensable reference work that also is flexible enough to provide essential readings for a wide variety of courses A masterful collection of authoritative papers that convey the rich and fundamental nature of modern theoretical ecology Simon A Levin Princeton University Theoretical ecologists exercise their imaginations to make sense of the astounding complexity of both real and possible ecosystems Imagining a real or possible topic left out of the Encyclopedia of Theoretical Ecology has proven just as challenging This comprehensive compendium demonstrates that theoretical ecology has become a mature science and the volume will serve as the foundation for future creativity in this area Fred Adler University of Utah The editors have assembled an outstanding group of contributors who are a great match for their topics Sometimes the author is a key authoritative figure in a field and at other times the author has enough distance to convey all sides of a subject The next time you need to introduce ecology students to a theoretical topic you ll be glad to have this encyclopedia on your bookshelf Stephen Ellner Cornell University Everything you wanted to know about theoretical ecology and much that you didn t know you needed to know but will now Alan Hastings and Louis Gross have done us a great service by bringing together in very accessible form a huge amount of information about a broad complicated and expanding field Daniel Simberloff University of Tennessee Knoxville

Oxford Surveys in Evolutionary Biology Douglas Futuyma, Janis Antonovics, 1992-10-08 This new

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