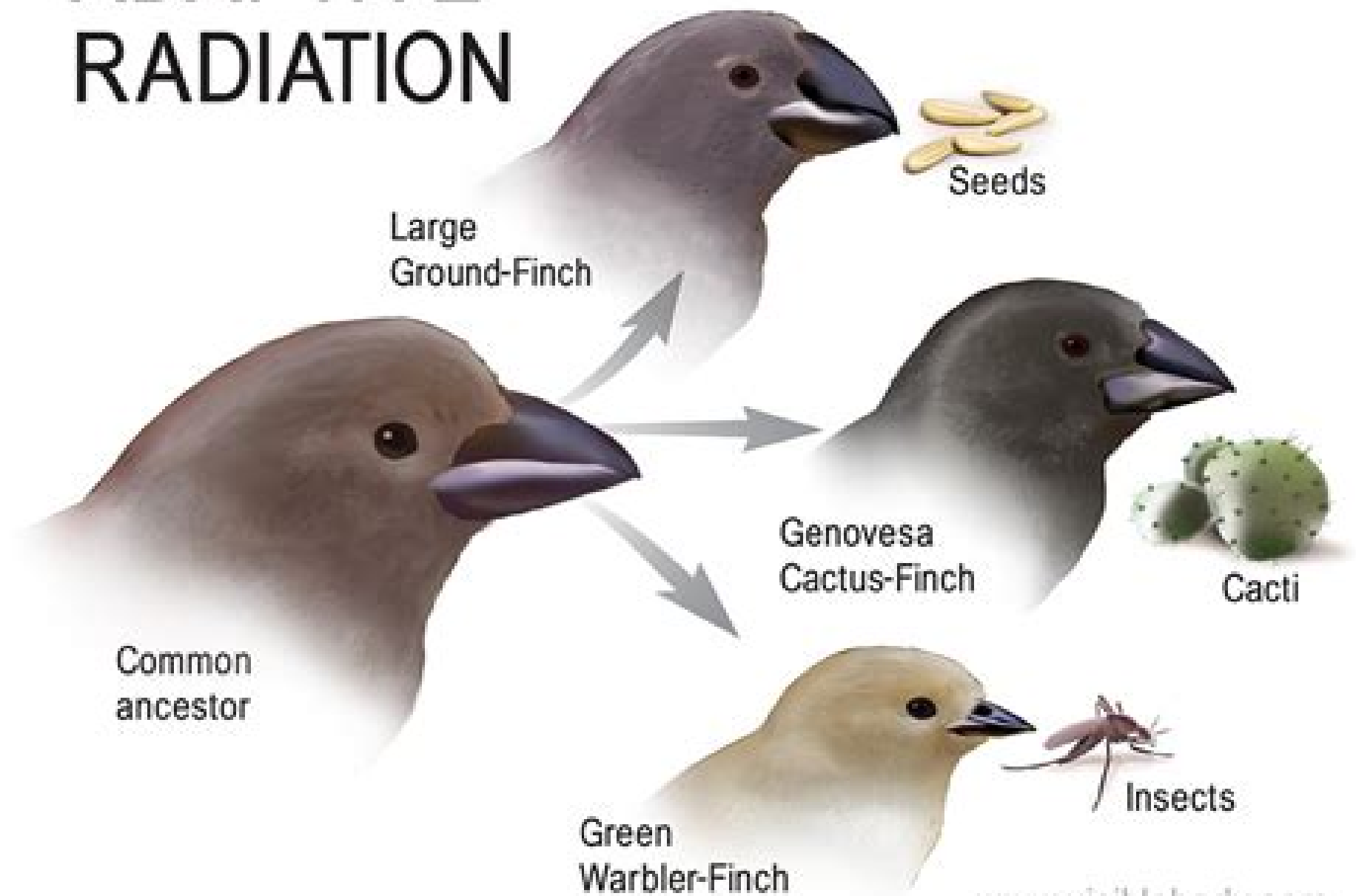


ADAPTIVE RADIATION



Adaptive Speciation

**Niles Eldredge, Telmo
Pievani, Emanuele Serrelli, Ilya Tëmkin**

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 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 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 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

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

Genetics of Mate Choice: From Sexual Selection to Sexual Isolation W.J. Etges, M.A. Noor, 2012-12-06

Genetic studies aimed at understanding the origin of species are dominating major scientific journals In the past decade genetic tools that were previously available only in model systems have become accessible to investigators working on nearly all species Concurrent with these technical advances has been an increase in understanding of both the importance of considering the ecological context of speciation and testing hypotheses about causes for species formation Many recent studies suggest a prominent role of sexual selection in species formation These advances have produced a need for a synthesis of what we now understand about speciation and perhaps more importantly where we should go from here In this volume several leading investigators and rising stars have contributed reviews and or novel primary research findings aimed at understanding the ultimate mystery on which Darwin named his most famous and influential book Fundamental to the origin of species is the evolution of mate choice systems This collection of papers discusses burgeoning genetic evolutionary and ecological approaches to understanding the origins of mating discrimination and causes of premating reproductive isolation both within and between species The individual contributions span a wide spectrum of disciplines taxa and ideas some controversial This synthesis brings together several of the most recent ideas with supporting empirical data This book will be of particular interest to both undergraduate and postgraduate researchers and students and researchers in the field of evolutionary biology genetics and animal behaviour

Evolutionary Theory Niles Eldredge, Telmo Pievani, Emanuele

Serrelli, Ilya Tëmkin, 2016-09-23 The natural world is infinitely complex and hierarchically structured with smaller units forming the components of progressively larger systems molecules make up cells cells comprise tissues and organs that are in turn parts of individual organisms which are united into populations and integrated into yet more encompassing ecosystems In the face of such awe inspiring complexity there is a need for a comprehensive non reductionist evolutionary theory Having emerged at the crossroads of paleobiology genetics and developmental biology the hierarchical approach to evolution provides a unifying perspective on the natural world and offers an operational framework for scientists seeking to understand the way complex biological systems work and evolve Coedited by one of the founders of hierarchy theory and featuring a diverse and renowned group of contributors this volume provides an integrated comprehensive cutting edge introduction to the hierarchy theory of evolution From sweeping historical reviews to philosophical pieces theoretical essays and strictly empirical chapters it reveals hierarchy theory as a vibrant field of scientific enterprise that holds promise for unification across the life sciences and offers new venues of empirical and theoretical research Stretching from molecules to

the biosphere hierarchy theory aims to provide an all encompassing understanding of evolution and with this first collection devoted entirely to the concept will help make transparent the fundamental patterns that propel living systems *The Mathematics of Darwin's Legacy* Fabio A. C. Chalub, José Francisco Rodrigues, 2011-06-24 The book presents a general overview of mathematical models in the context of evolution It covers a wide range of topics such as population genetics population dynamics speciation adaptive dynamics game theory kin selection and stochastic processes Written by leading scientists working at the interface between evolutionary biology and mathematics the book is the outcome of a conference commemorating Charles Darwin's 200th birthday and the 150th anniversary of the first publication of his book *On the origin of species* Its chapters vary in format between general introductory and state of the art research texts in biomathematics in this way addressing both students and researchers in mathematics biology and related fields Mathematicians looking for new problems as well as biologists looking for rigorous description of population dynamics will find this book fundamental

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

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