

# Geographic Variation, Speciation, and Clines

John A. Endler

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# Geographic Variation Speciation And Clines

**Emília P. Martins**



## **Geographic Variation Speciation And Clines:**

*Geographic Variation, Speciation, and Clines* John A. Endler, 1977-09-21 Following a review of the diverse and scattered literature on gene flow and population differentiation the author discusses the relationships among gene flow dispersal and migration He then summarizes the factors which limit the geographic extent of gene flow and those which allow steep clines to develop in the absence of barriers to gene flow His analysis draws on examples from the field experiments and single and multiple locus models

**Geographic Variation, Speciation and Clines** John A. Endler, 2020-03-31 Geographic Variation Speciation and Clines explores the origins and development of geographic variation divergence and speciation In particular it is concerned with genetic divergence as it is usually found on continents among groups of populations isolated only by distance Although earlier writers on this topic considered the effects of geography and dispersal intense geographic differentiation and speciation were thought to require complete isolation Professor Endler shows how geographic differentiation and speciation may develop in spite of continuous gene flow Following a review of the diverse and scattered literature on gene flow and population differentiation the author discusses the relationships among gene flow dispersal and migration He then summarizes the factors which limit the geographic extent of gene flow and those which allow steep clines to develop in the absence of barriers to gene flow His analysis draws on examples from the field experiments and single and multiple locus models The mechanism and conditions for parapatric speciation are presented steepening clines development into hybrid zones and the evolution of sexual isolation In the final chapter the author considers the interpretation of natural clines and the associated geographic patterns of subspecies and species

GEOGRAPHIC VARIATION, SPECIATION AND CLINES. PRINCETON J. A. ENDLER, *Phylogenies and the Comparative Method in Animal Behavior* Emília P. Martins, 1996 In the last ten years the comparative method has been revolutionized by modern statistical ways of incorporating phylogenies into the design and analysis of comparative studies The results of this revolution are particularly important in the study of animal behavior which has relied on interspecific comparisons to infer universal trends and evolutionary patterns The chapters of this edited volume consider the impact of modern phylogenetic comparative methods on the study of animal behavior and discuss the main issues that need to be considered in design and analysis of a comparative study considers possible differences between the evolution of behavior and the evolution of morphology and reviews how phylogenetic comparative studies have been used in certain areas of behavioral research

**Foundations of Biogeography** Mark V. Lomolino, Dov F. Sax, James H. Brown, 2004-07 Foundations of Biogeography provides facsimile reprints of seventy two works that have proven fundamental to the development of the field From classics by Georges Louis LeClerc Comte de Buffon Alexander von Humboldt and Charles Darwin to equally seminal contributions by Ernst Mayr Robert MacArthur and E O Wilson these papers and book excerpts not only reveal biogeography's historical roots but also trace its theoretical and empirical development Selected and introduced by leading biogeographers the articles cover a wide

variety of taxonomic groups habitat types and geographic regions Foundations of Biogeography will be an ideal introduction to the field for beginning students and an essential reference for established scholars of biogeography ecology and evolution

List of Contributors John C Briggs James H Brown Vicki A Funk Paul S Giller Nicholas J Gotelli Lawrence R Heaney Robert Hengeveld Christopher J Humphries Mark V Lomolino Alan A Myers Brett R Riddle Dov F Sax Geerat J Vermeij Robert J Whittaker

**Population Genetics and Evolution** Gerdina de Jong, 2012-12-06 At least since the 1940s neo Darwinism has prevailed as the consensus view in the study of evolution The mechanism of evolution in this view is natural selection leading to adaptation working on a substrate of adaptationally random mutations As both the study of genetic variation in natural populations and the study of the mathematical equations of selection are reckoned to a field called population genetics population genetics came to form the core in the theory of evolution So much so that the fact that there is more to the theory of evolution than population genetics became somewhat obscured The genetics of the evolutionary process or the genetics of evolutionary change came close to being all of evolutionary biology In the last 10 years this dominating position of population genetics within evolutionary biology has been challenged In evolutionary ecology optimization theory proved more useful than population genetics for interesting predictions especially of life history strategies From developmental biology constraints in development and the role of internal regulation were emphasized From paleobiology a proposal was put forward to describe the fossil record and the evolutionary process as a series of punctuated equilibria thus exhorting population geneticists to give a plausible account of how such might come about All these developments tend to obscure the central role of population genetics in evolutionary biology

**The Causes of Evolution** John Burdon Haldane, 1990-10-10 J B S Haldane 1892 1964 one of the founders of the science of population genetics was also one of the greatest practitioners of the art of explaining science to the layperson Haldane was a superb story teller as his essays and his children's books attest In The Causes of Evolution he not only helped to marry the new science of genetics to the older one of evolutionary theory but also provided an accessible introduction to the genetical basis of evolution by natural selection Egbert Leigh's new introduction to this classic work places it in the context of the ongoing study of evolution Describing Haldane's refusal to be confined by a System as a light hearted one Leigh points out that we are now finding that Haldane's questions are the appropriate next stage in learning how adaptation can evolve We are now ready to reap the benefit of the fact that Haldane was a free man in the sense that really matters

**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      *Avian Genetics* F. Cooke, P. A. Buckley, 2013-09-24 *Avian Genetics A Population and Ecological Approach* is a collection of papers that deals with the study of birds in relation to the synthetic theory of evolution This book studies the ecology demography behavior and geographical distribution of birds the text also discusses quantitative chromosomal biochemical and population genetics Part I reviews the various genetic interactions including an analysis of DNA sequence variation The different and newer techniques are compared such as the works of Sibley Quinn and White Part II describes the molding genetic variation and covers topics such as inbreeding gene flow and the genetic structure of populations non random mating and the process of selection in natural populations of birds Part III covers actual genetic case histories including quantitative ecological genetics of great tits genetic evolution of house sparrows and presentation of evidence for sexual selection by female choice in the Arctic Skua This book also presents future research in subjects such as the neutrality selection controversy or genetics and conservation This text can be beneficial for ecologists ornithologists animal conservationists and population biologists studying birds      *Forest Structure, Function and Dynamics in Western Amazonia* Randall W. Myster, 2017-03-20 The Amazon Basin contains the largest and most diverse tropical rainforest in the world Besides the Andes and the Atlantic Ocean the rainforest is bounded to the north by the Guiana crystalline shield and to the south by the Brazilian crystalline shield marked at their edges by cataracts in the rivers and often dominated by grasslands This book is motivated not just by the Amazon's scientific interest but also by its role in many ecosystem functions critical to life on Earth These ecosystems are characterized both by their complexity and their interactive higher order linkages among both abiotic and biotic components Within Amazonia the Western Amazon west of 65 latitude is the most pristine and perhaps the most complex within the Amazon Basin This Western Amazon may be broadly divided into non flooded forests e.g. terra firme white sand palm and forests flooded with white water generally referred to as várzea and with black water generally referred to as igapó Here for the first time is a book devoted entirely to Western Amazonia containing chapters by scientists at the forefront of their own areas of expertise It should be a valuable resource for all future researchers and scholars who venture into Western Amazonia as it continues to be one of the most beautiful mysterious remote and important ecosystems on Earth      Evolutionary Population Genetics of *Drosophila ananassae* Pranveer Singh, 2015-10-16 This book introduces readers to classical population genetics and the ways in which it can be applied to practical problems including testing for natural selection genetic drift genetic differentiation population structuring gene flow and linkage disequilibrium It provides a comprehensive monograph on the topic addressing the theory applications and evolutionary deductions which are clearly explained using experimental results It also offers separate chapters on origin establishment and spread of chromosomal aberrations in populations along with details of culturing maintaining and using *Drosophila ananassae* genetically unique and the most commonly used species along with *D. melanogaster* for genetic research Encompassing topics like genetics evolution *Drosophila* genetics population genetics population structuring natural selection and genetic

drift in considerable detail it provides a valuable resource to undergraduate and postgraduate students as well as researchers at all level This book explores some fundamental questions concerning the role of natural selection and genetic drift on the degree of inversion polymorphism India with its wide diversity in geo climatic conditions provides an excellent platform to conduct such studies The book showcases sampling records of inversion frequencies in natural Indian populations of *D. ananassae* that cover more than two decades It highlights case studies in which sampling data on inversion frequencies was combined with that from earlier surveys generating a time series that allows the evolutionary dynamics of inversion polymorphism to be explored Such long time series are rare but nonetheless crucial for studying the evolutionary dynamics of inversion polymorphism The population genetic analysis discussed is unprecedented in terms of its temporal two decades and spatial most regions of India covered scale and investigates the patterns of polymorphic system in *D. ananassae* to see if there is any temporal divergence It endeavors to present a holistic picture of inversion polymorphism across the country India Chromosomal aberrations particularly paracentric inversions are used as a tool for discussing population genetic studies helping human geneticists gynecologists and other medical professionals understand why some aberrations are fatal in humans with affected embryos often not surviving the first trimester of pregnancy while similar aberrations in *Drosophila* flies aid in their adaptation to the environmental heterogeneity across the globe

**Horizontal Gene Transfer** Michael Syvanen, Clarence I. Kado, 2001-12-19 The second edition of Horizontal Gene Transfer has been organized to provide a concise and up to date coverage of the most important discoveries in this fascinating field Written by the most prominent gene transfer and genome analytical scientists this book details experimental evidence for the phenomenon of horizontal gene transfer and discusses further evidence provided by the recent completion of genomic sequences from Archea Bacteria and Eucarya members The relevance of horizontal gene transfer to plant and metazoan taxonomy GM foods antibiotic resistance paleontology and phylogenetic reconstruction is also explored Horizontal Gene Transfer is essential for microbiologists geneticists biochemists evolutionary biologists infectious disease specialists paleontologists ecologists and researchers working in plant animal systematics and agriculture with an interest in gene transfer This includes scientific researchers from government and industry concerned with the release of genetically modified organisms Up to the minute reviews maps conclusions urls to relevant websites and colour figures Unique chapters for example one written by paleontologists presents data for horizontal gene transfer from fingerprints form the fossil record

Animal Athletes Duncan J. Irschick, Timothy E. Higham, 2016 Animals perform many athletic tasks to an amazing degree of accomplishment not only spectacular feats of running and jumping but also routine actions that ensure survival such as feeding vocalization diving flying and many more The study of performance capacity defined as the ability of an animal to conduct a key task is of great interest to both ecologists and evolutionary biologists At an ecological level how well individuals perform often dictates opportunities for reproduction occupation of preferred territories or capturing prey Therefore variation in

performance capacities can be a key determinant of variation in fitness within animal populations. At an evolutionary level, variation in function often follows closely from variation in form and therefore enables animals to invade novel habitats or to overtake other species. This novel book examines how and why animal athletes have evolved. It uses examples from across the animal kingdom and integrates them in the broader context of ecology and evolution, thereby identifying common themes that transcend taxonomic divisions. *Animal Athletes* is an accessible textbook of particular relevance to undergraduates, graduate students, researchers, and professionals in the fields of evolutionary biology, ecology, vertebrate morphology, and functional morphology.

Life Underground Eileen A. Lacey, 2000-09 Many mammals like to dig in the dirt but few call it home. Those that do, such as mole rats, shrews, and tuco tucos, have developed novel adaptations to their subterranean life, including bones and muscles modified for efficient digging and ways to see underground without using their eyes. These unusual traits, adopted independently by unrelated groups around the world, also make subterranean rodents fascinating subjects for biologists. *Life Underground* provides the first comprehensive review of the biology of subterranean rodents. Arranged by topic rather than by taxon to facilitate cross-species comparisons, chapters cover such subjects as morphology, physiology, social behavior, genetic variation, and evolutionary diversification. Two main questions run throughout the book: First, to what extent has subterranean life shaped the biology of these animals, leading to similar adaptations among otherwise dissimilar species? Second, how have the distinct evolutionary histories of these groups led to different solutions to the challenges posed by life underground.

**Species, Species Concepts and Primate Evolution** William H. Kimbrell, Lawrence B. Martin, 2013-12-18 A world of categories devoid of spirit waits for life to return. Saul Bellow. Humboldt's Gift. The stock in trade of communicating hypotheses about the historical path of evolution is a graphical representation called a phylogenetic tree. In most such graphics, pairs of branches diverge from other branches successively, marching across abstract time toward the present. To each branch is tied a tag with a name, a binomial symbol that functions as does the name given to an individual human being. On phylogenetic trees, the names symbolize species. What exactly do these names signify? What kind of information is communicated when we claim to have knowledge of the following types? *Tetodonius mathewzi* was ancestral to *Pseudotetodonius ambiguus*. The sample of fossils attributed to *Homo habilis* is too variable to contain only one species. Interbreeding populations of savanna baboons all belong to *Papio anubis*. *Hylobates lar* and *H. pileatus* interbreed in zones of geographic overlap. While there is nearly universal agreement that the notion of the species is fundamental to our understanding of how evolution works, there is a very wide range of opinion on the conceptual content and meaning of such particular statements regarding species. This is because, oddly enough, evolutionary biologists are quite far from agreement on what a species is, how it attains this status, and what role it plays in evolution over the long term.

Population Genomics Om P. Rajora, 2019-01-07 Population genomics has revolutionized various disciplines of biology, including population, evolutionary, ecological, and conservation genetics, plant and animal breeding, human health, medicine,

and pharmacology by allowing to address novel and long standing questions with unprecedented power and accuracy It employs large scale or genome wide genetic information and bioinformatics to address various fundamental and applied aspects in biology and related disciplines and provides a comprehensive genome wide perspective and new insights that were not possible before These advances have become possible due to the development of new and low cost sequencing and genotyping technologies and novel statistical approaches and software bioinformatics tools and models Population genomics is tremendously advancing our understanding the roles of evolutionary processes such as mutation genetic drift gene flow and natural selection in shaping up genetic variation at individual loci and across the genome and populations improving the assessment of population genetic parameters or processes such as adaptive evolution effective population size gene flow admixture inbreeding and outbreeding depression demography and biogeography resolving evolutionary histories and phylogenetic relationships of extant ancient and extinct species understanding the genomic basis of fitness adaptation speciation complex ecological and economically important traits and disease and insect resistance facilitating forensics genetic medicine and pharmacology delineating conservation genetic units and understanding the genetic effects of resource management practices and assisting conservation and sustainable management of genetic resources This Population Genomics book discusses the concepts approaches applications and promises of population genomics in addressing most of the above fundamental and applied crucial aspects in a variety of organisms from microorganisms to humans The book provides insights into a range of emerging population genomics topics including population epigenomics landscape genomics seascape genomics paleogenomics ecological and evolutionary genomics biogeography demography speciation admixture colonization and invasion genomic selection and plant and animal domestication This book fills a vacuum in the field and is expected to become a primary reference in Population Genomics world wide *The Evolutionary Dynamics of the Pocket Gopher Thomomys bottae, with Emphasis on California Populations* James L. Patton, Margaret F. Smith, 1990-10-08

**Snowbird** Ellen D. Ketterson, Jonathan W. Atwell, 2016-03-30 At birdfeeders and in backyards across North America the dark eyed junco or snowbird can be found foraging for its next meal With an estimated population of at least 630 million juncos inhabit forests parks and even suburban habitats making them one of the continent's most abundant and easily observable songbirds But while common and widespread juncos also exhibit extraordinary diversity in color shape size and behavior across their range making them ideal study subjects for biologists interested in ecology and evolutionary diversification Intended for scholars citizen scientists and amateur ornithologists alike Snowbird synthesizes decades of research from the diverse and talented researchers who study the Junco genus Though contributors approach their subject from a variety of perspectives they share a common goal elucidating the organismal and evolutionary processes by which animals adapt and diversify in response to environmental change Placing special emphasis on the important role that underlying physiological hormonal and behavioral mechanisms play in these processes Snowbird not only provides a



definitive exploration of the junco s evolutionary history and behavioral and physiological diversity but also underscores the junco s continued importance as a model organism in a time of rapid global climate change By merging often disparate biological fields Snowbird offers biologists across disciplines an integrative framework for further research into adaptation population divergence and the formation of new species

*Environmental Impact of Invertebrates for Biological Control of Arthropods* Franz Bigler,Dirk Babendreier,Ulli Kuhlmann,2006 This book provides an invaluable review of the current methodologies used for assessing the environmental impacts of invertebrate biological agents used to control pests in agriculture and forestry It explores methods to evaluate post release effects and the environmental impact of dispersal displacement and establishment of invertebrate biological control agents

**Bones, Clones, and Biomes** Bruce D. Patterson,Leonora P. Costa,2024-05-31 As explorers and scientists have known for decades the Neotropics harbor a fantastic array of our planet s mammalian diversity from capybaras and capuchins to maned wolves and mouse opossums to sloths and sakis This biological bounty can be attributed partly to the striking diversity of Neotropical landscapes and climates and partly to a series of continental connections that permitted intermittent faunal exchanges with Africa Antarctica Australia and North America Thus to comprehend the development of modern Neotropical mammal faunas requires not only mastery of the Neotropics substantial diversity but also knowledge of mammalian lineages and landscapes dating back to the Mesozoic Bones Clones and Biomes offers just that an exploration of the development and relationships of the modern mammal fauna through a series of studies that encompass the last 100 million years and both Central and South America This work serves as a complement to more taxonomically driven works providing for readers the long geologic and biogeographic contexts that undergird the abundance and diversity of Neotropical mammals Rather than documenting diversity or distribution this collection traverses the patterns that the distributions and relationships across mammal species convey bringing together for the first time geology paleobiology systematics mammalogy and biogeography Of critical importance is the book s utility for current conservation and management programs part of a rapidly rising conservation paleobiology initiative

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