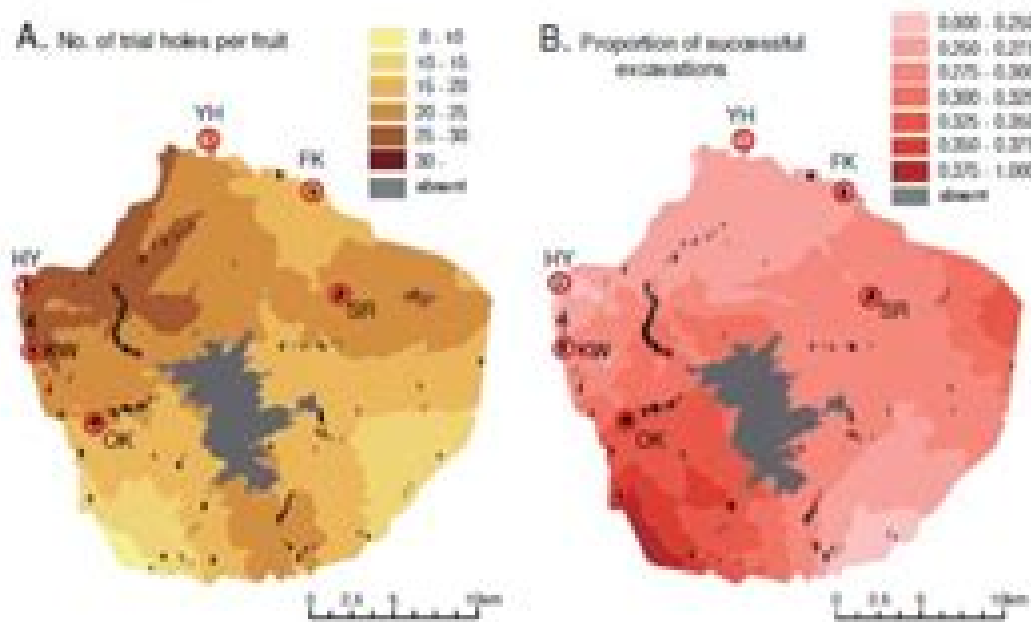


Predictions of geographic mosaic theory of co-evolution

- Co-evolving traits vary among populations
- Traits are well-matched in some local communities and not in others
- There may routinely be local transient mixtures of apparently mal-adaptive traits
- Few co-evolving traits or underlying alleles will be widespread across geographic ranges or fixed within interacting spp.



Toju, Yakushima island

Geographic Mosaic Of Coevolution

John N. Thompson



Geographic Mosaic Of Coevolution:

The Geographic Mosaic of Coevolution John N. Thompson, 2005-06-15 Coevolution reciprocal evolutionary change in interacting species driven by natural selection is one of the most important ecological and genetic processes organizing the earth's biodiversity most plants and animals require coevolved interactions with other species to survive and reproduce The Geographic Mosaic of Coevolution analyzes how the biology of species provides the raw material for long term coevolution evaluates how local coadaptation forms the basic module of coevolutionary change and explores how the coevolutionary process reshapes locally coevolving interactions across the earth's constantly changing landscapes Picking up where his influential *The Coevolutionary Process* left off John N Thompson synthesizes the state of a rapidly developing science that integrates approaches from evolutionary ecology population genetics phylogeography systematics evolutionary biochemistry and physiology and molecular biology Using models data and hypotheses to develop a complete conceptual framework Thompson also draws on examples from a wide range of taxa and environments illustrating the expanding breadth and depth of research in coevolutionary biology

The Geographic Mosaic of Coevolution J.N. Thompson, 1999 **The Geographic Mosaic Theory in Relation to Coevolutionary Interactions Between Two Species** Jennifer M.

Switkes, 2000 **The Coevolutionary Process** John N. Thompson, 2009-04-24 Traditional ecological approaches to species evolution have frequently studied too few species relatively small areas and relatively short time spans In *The Coevolutionary Process* John N Thompson advances a new conceptual approach to the evolution of species interactions the geographic mosaic theory of coevolution Thompson demonstrates how an integrated study of life histories genetics and the geographic structure of populations yields a broader understanding of coevolution or the development of reciprocal adaptations and specializations in interdependent species Using examples of species interactions from an enormous range of taxa Thompson examines how and when extreme specialization evolves in interdependent species and how geographic differences in specialization adaptation and the outcomes of interactions shape coevolution Through the geographic mosaic theory Thompson bridges the gap between the study of specialization and coevolution in local communities and the study of broader patterns seen in comparisons of the phylogenies of interacting species

Evolutionary Ecology Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001-10-19 *Evolutionary Ecology* simultaneously unifies conceptual and empirical advances in evolutionary ecology and provides a volume that can be used as either a primary textbook or a supplemental reading in an advanced undergraduate or graduate course The focus of the book is on current concepts in evolutionary ecology and the empirical study of these concepts The editors have assembled a group of prominent biologists who have made significant contributions to this field They both synthesize the current state of knowledge and identify areas for future investigation *Evolutionary Ecology* will be of general interest to researchers and students in both ecology and evolutionary biology Researchers in evolutionary ecology that want an overview of the current state of the field and graduate students that want

an introduction the field will find this book very valuable This volume can also be used as a primary textbook or supplemental reading in both upper division and graduate courses seminars in Evolutionary Ecology

Coevolution Unmasked: Unraveling the Mysteries of Interconnected Evolution Pasquale De Marco, 2025-05-17 In a world teeming with life where species dance in a mesmerizing ballet of interactions *Coevolution Unmasked* unveils the hidden threads that connect all living beings This captivating journey into the realm of coevolution reveals the intricate ways in which organisms shape each other's evolutionary trajectories leading to a symphony of adaptations and counter adaptations From the relentless chase between predator and prey to the harmonious unions of mutualists coevolution weaves a vibrant narrative of survival resilience and the relentless pursuit of life Unraveling the mechanisms of coevolution is like embarking on an expedition into a hidden realm where every species plays a pivotal role in shaping the destiny of others Unveiling the Threads of Coevolution delves into the depths of coevolutionary relationships exploring the genetic basis of adaptation the ecological consequences of interconnectedness and the profound implications for human health The book masterfully weaves together scientific rigor and captivating storytelling inviting readers to witness the unfolding saga of coevolution across landscapes ecosystems and time With its comprehensive approach and accessible style *Coevolution Unmasked* is an essential guide for anyone seeking to understand the intricate web of life It is a testament to the power of interconnectedness highlighting the delicate balance between species and their environment This book is a clarion call for recognizing and preserving the interdependence of all living things inspiring readers to become stewards of the planet's biodiversity Within these pages readers will discover The fascinating world of coevolutionary interactions from predator-prey dynamics to mutualistic partnerships The genetic mechanisms underlying adaptation and the role of natural selection in shaping species The profound ecological consequences of coevolution including its impact on community structure ecosystem function and biodiversity The intricate relationship between coevolution and human health encompassing infectious diseases antibiotic resistance and human-animal interactions The importance of coevolutionary thinking in addressing global challenges such as climate change and biodiversity loss *Coevolution Unmasked* is more than just a book it is an immersive experience that transports readers to the heart of interconnectedness revealing the hidden forces that shape the diversity and resilience of life on Earth If you like this book write a review on Google Books

Coevolution of Life on Hosts Dale H. Clayton, Sarah E. Bush, Kevin P. Johnson, 2015-12-24 For most the mere mention of lice forces an immediate hand to the head and recollection of childhood experiences with nits medicated shampoos and traumatic haircuts But for a certain breed of biologist lice make for fascinating scientific fodder especially enlightening in the study of coevolution In this book three leading experts on host-parasite relationships demonstrate how the stunning coevolution that occurs between such species in microevolutionary or ecological time generates clear footprints in macroevolutionary or historical time By integrating these scales *Coevolution of Life on Hosts* offers a comprehensive understanding of the influence of coevolution on the diversity of all life Following an

introduction to coevolutionary concepts the authors combine experimental and comparative host parasite approaches for testing coevolutionary hypotheses to explore the influence of ecological interactions and coadaptation on patterns of diversification and codiversification among interacting species Ectoparasites a diverse assemblage of organisms that ranges from herbivorous insects on plants to monogenean flatworms on fish and feather lice on birds are powerful models for the study of coevolution because they are easy to observe mark and count As lice on birds and mammals are permanent parasites that spend their entire lifecycles on the bodies of their hosts they are ideally suited to generating a synthetic overview of coevolution and thereby offer an exciting framework for integrating the concepts of coadaptation and codiversification

Conservation Biology Scott P. Carroll, Charles W. Fox, 2008-09-15 The main goal of this book is to encourage and formalize the infusion of evolutionary thinking into mainstream conservation biology It reviews the evolutionary foundations of conservation issues and unifies conceptual and empirical advances in evolutionary conservation biology The book can be used either as a primary textbook or as a supplementary reading in an advanced undergraduate or graduate level course likely to be called Conservation Biology or in some cases Evolutionary Ecology The focus of chapters is on current concepts in evolution as they pertain to conservation and the empirical study of these concepts The balanced treatment avoids exhaustive reviews and overlapping duplication among the chapters Little background in genetics is assumed of the reader

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 *Encyclopedia of Insects* Vincent H. Resh, Ring T. Cardé, 2003-04-04 The Encyclopedia of Insects is a comprehensive work devoted to all aspects of insects including their anatomy physiology evolution behavior reproduction ecology and disease as well as issues of exploitation conservation and management Articles provide definitive facts about all insects from aphids beetles and butterflies to weevils and yellowjackets Insects are beautiful

and dreadful ravenous pests and devastating disease vectors resilient and resistant to eradication and the source of great benefit and great loss for civilization Important for ecosystem health they have influenced the evolution of other life forms on our planet including humans Anyone interested in insects from university professors and researchers to high school students preparing a report will find The Encyclopedia of Insects an indispensable volume for insect information An unprecedented collection in 1 276 pages covering every important aspect of insects Presents 270 original articles thoroughly peer reviewed and edited for consistency Features 1 000 figures and tables including 500 full color photographs Includes the latest information contributed by 250 experts in 17 countries Designed to save research time with a full glossary 1 700 cross references and 3 000 bibliographic entries

Encyclopedia of Ecology Brian D. Fath, 2014-11-03 The groundbreaking Encyclopedia of Ecology provides an authoritative and comprehensive coverage of the complete field of ecology from general to applied It includes over 500 detailed entries structured to provide the user with complete coverage of the core knowledge accessed as intuitively as possible and heavily cross referenced Written by an international team of leading experts this revolutionary encyclopedia will serve as a one stop shop to concise stand alone articles to be used as a point of entry for undergraduate students or as a tool for active researchers looking for the latest information in the field Entries cover a range of topics including Behavioral Ecology Ecological Processes Ecological Modeling Ecological Engineering Ecological Indicators Ecological Informatics Ecosystems Ecotoxicology Evolutionary Ecology General Ecology Global Ecology Human Ecology System Ecology The first reference work to cover all aspects of ecology from basic to applied Over 500 concise stand alone articles are written by prominent leaders in the field Article text is supported by full color photos drawings tables and other visual material Fully indexed and cross referenced with detailed references for further study Writing level is suited to both the expert and non expert Available electronically on ScienceDirect shortly upon publication

Stochastic Processes and Functional Analysis Alan C. Krinik, Randall J. Swift, 2004-03-23 This extraordinary compilation is an expansion of the recent American Mathematical Society Special Session celebrating M M Rao s distinguished career and includes most of the presented papers as well as ancillary contributions from session invitees This book shows the effectiveness of abstract analysis for solving fundamental problems of stochas

Specialization, Speciation, and Radiation Kelley Tilmon, 2008-01-03 The intimate associations between plants and the insects that eat them have helped define and shape both groups for millions of years This pioneering volume is a comprehensive up to date treatment of the evolutionary biology of herbivorous insects including their relationships with host plants and natural enemies Chapters focus on the dynamic relationships between insects and plants from the standpoint of evolutionary change at different levels of biological organization individuals populations species and clades Written by prominent evolutionary biologists entomologists and ecologists the chapters are organized into three sections Evolution of Populations and Species Co and Macroevolutionary Radiation and Evolutionary Aspects of Pests Invasive Species and the Environment The volume is unified by the idea that

understanding the ecological framework of the interactions between herbivorous insects and their host plants is fundamental to understanding their evolution *Evolutionary Quantitative Genetics* Stevan J. Arnold, 2023-06-19 Evolutionary quantitative genetics EQG provides a formal theoretical foundation for quantitatively linking natural selection and genetic variation to the rate and expanse of adaptive evolution It has become the dominant conceptual framework for interpreting the evolution of quantitative traits in terms of elementary forces mutation inheritance selection and drift Despite this success the relevance of EQG to many biological scenarios remains relatively unappreciated with numerous fields yet to fully embrace its approach Part of the reason for this lag is that conceptual advances in EQG have not yet been fully synthesized and made accessible to a wider academic audience A comprehensive accessible overview is therefore now timely and Evolutionary Quantitative Genetics provides this much needed synthesis The central argument of the book is that an adaptive landscape concept can be used to understand both evolutionary process within lineages and the pattern of adaptive radiations In particular it provides a convincing argument that models with a moving adaptive peak carry us further than any other conceptual approach yet devised Although additive theory holds center stage the book mentions and references departures from additivity including non Gaussian distributions of allelic effects dominance epistasis maternal effects and phenotypic plasticity This accessible advanced textbook is aimed principally at students from senior undergraduate to postgraduate as well as practising scientists in the fields of evolutionary biology ecology physiology functional morphology developmental biology comparative biology paleontology and beyond who are interested in how adaptive radiations are produced by evolutionary and ecological processes **Breeding Insect Resistant Crops for Sustainable Agriculture** Ramesh Arora, Surinder Sandhu, 2017-10-16 This book reviews and synthesizes the recent advances in exploiting host plant resistance to insects highlighting the role of molecular techniques in breeding insect resistant crops It also provides an overview of the fascinating field of insect plant relationships which is fundamental to the study of host plant resistance to insects Further it discusses the conventional and molecular techniques utilized useful in breeding for resistance to insect pests including back cross breeding modified population improvement methods for insect resistance marker assisted backcrossing to expedite the breeding process identification and validation of new insect resistance genes and their potential for utilization genomics metabolomics transgenesis and RNAi Lastly it analyzes the successes limitations and prospects for the development of insect resistant cultivars of rice maize sorghum and millet cotton rapeseed legumes and fruit crops and highlights strategies for management of insect biotypes that limit the success and durability of insect resistant cultivators in the field Arthropod pests act as major constraints in the agro ecosystem It has been estimated that arthropod pests may be destroying around one fifth of the global agricultural production potential production every year Further the losses are considerably higher in the developing tropics of Asia and Africa which are already battling severe food shortage Integrated pest management IPM has emerged as the dominant paradigm for minimizing damage by the insects and non insect pests

over the last 50 years Pest resistant cultivars represent one of the most environmentally benign economically viable and ecologically sustainable options for utilization in IPM programs Hundreds of insect resistant cultivars of rice wheat maize sorghum cotton sugarcane and other crops have been developed worldwide and are extensively grown for increasing and or stabilizing crop productivity The annual economic value of arthropod resistance genes developed in global agriculture has been estimated to be greater than US 2 billion Despite the impressive achievements and even greater potential in minimizing pest related losses only a handful of books have been published on the topic of host plant resistance to insects This book fills this wide gap in the literature on breeding insect resistant crops It is aimed at plant breeders entomologists plant biotechnologists and IPM experts as well as those working on sustainable agriculture and food security **Mutualism**

Judith L. Bronstein, 2015 Mutualisms interactions between two species that benefit both of them have long captured the public imagination Their influence transcends levels of biological organization from cells to populations communities and ecosystems Mutualistic symbioses were crucial to the origin of eukaryotic cells and perhaps to the invasion of land Mutualisms occur in every terrestrial and aquatic habitat indeed ecologists now believe that almost every species on Earth is involved directly or indirectly in one or more of these interactions Mutualisms are essential to the reproduction and survival of virtually all organisms as well as to nutrient cycles in ecosystems Furthermore the key ecosystem services that mutualists provide mean that they are increasingly being considered as conservation priorities ironically at the same time as the acute risks to their ecological and evolutionary persistence are increasingly being identified This volume the first general work on mutualism to appear in almost thirty years provides a detailed and conceptually oriented overview of the subject Focusing on a range of ecological and evolutionary aspects over different scales from individual to ecosystem the chapters in this book provide expert coverage of our current understanding of mutualism whilst highlighting the most important questions that remain to be answered In bringing together a diverse team of expert contributors this novel text captures the excitement of a dynamic field that will help to define its future research agenda **Encyclopedia of Animal Behavior**, 2009-04-01

The Encyclopedia of Animal Behavior Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world's experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the

effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

The Princeton Guide to Ecology Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field s major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology

suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management *Trait-Mediated Indirect Interactions* Takayuki Ohgushi, Oswald Schmitz, Robert D. Holt, 2012-12-06 There is increasing evidence that the structure and functioning of ecological communities and ecosystems are strongly influenced by flexible traits of individuals within species A deep understanding of how trait flexibility alters direct and indirect species interactions is crucial for addressing key issues in basic and applied ecology This book provides an integrated perspective on the ecological and evolutionary consequences of interactions mediated by flexible species traits across a wide range of systems It is the first volume synthesizing the rapidly expanding research field of trait mediated indirect effects and highlights how the conceptual framework of these effects can aid the understanding of evolutionary processes population dynamics community structure and stability and ecosystem function It not only brings out the importance of this emerging field for basic ecological questions but also explores the implications of trait mediated interactions for the conservation of biodiversity and the response of ecosystems to anthropogenic environmental changes **The Ecology and Evolution of Ant-Plant Interactions** Victor Rico-Gray, Paulo S. Oliveira, 2008-09-15 Ants are probably the most dominant insect group on Earth representing ten to fifteen percent of animal biomass in terrestrial ecosystems Flowering plants meanwhile owe their evolutionary success to an array of interspecific interactions such as pollination seed dispersal and herbivory that have helped to shape their great diversity The Ecology and Evolution of Ant Plant Interactions brings together findings from the scientific literature on the coevolution of ants and plants to provide a better understanding of the unparalleled success of these two remarkable groups of interspecific interactions in general and ultimately of terrestrial biological communities The Ecology and Evolution of Ant Plant Interactions synthesizes the dynamics of ant plant interactions including the sources of variation in their outcomes Victor Rico Gray and Paulo S Oliveira capture both the emerging appreciation of the importance of these interactions within ecosystems and the developing approaches that place studies of these interactions into a broader ecological and evolutionary context The collaboration of two internationally renowned scientists The Ecology and Evolution of Ant Plant Interactions will become a standard reference for understanding the complex interactions between these two taxa

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