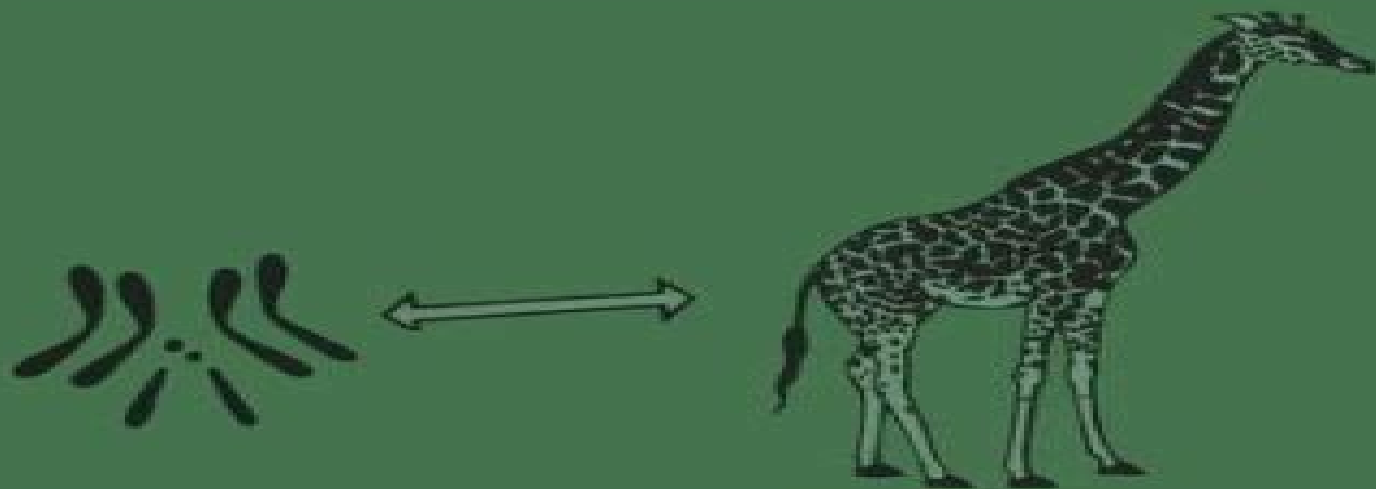


Volker Loeschcke (Ed.)

Genetic Constraints on Adaptive Evolution



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Genetic Constraints On Adaptive Evolution

F. Schiemer, M. Zalewski, J.E. Thorpe



Genetic Constraints On Adaptive Evolution:

Genetic Constraints on Adaptive Evolution Volker Loeschcke, 2012-12-06 Genetic constraints on adaptive evolution can be understood as those genetic aspects that prevent or reduce the potential for natural selection to result in the most direct ascent of the mean phenotype to an optimum The contributions to this volume emphasize how genetic aspects in the transmission of traits constrain adaptive evolution Approaches span from quantitative population ecological to molecular genetics Much attention is devoted to genetic correlations to the maintenance of quantitative genetic variation and to the intimate relation between genetics ecology and evolution This volume addresses all evolutionary biologists and explains why they should be wary of evolutionary concepts that base arguments purely on phenotypic characteristics Genetics of Adaptation Rodney Mauricio, 2005-07-20 An enduring controversy in evolutionary biology is the genetic basis of adaptation Darwin emphasized many slight differences as the ultimate source of variation to be acted upon by natural selection In the early 1900 s this view was opposed by Mendelian geneticists who emphasized the importance of macromutations in evolution The Modern Synthesis resolved this controversy concluding that mutations in genes of very small effect were responsible for adaptive evolution A decade ago Allen Orr and Jerry Coyne reexamined the evidence for this neo Darwinian view and found that both the theoretical and empirical basis for it were weak Orr and Coyne encouraged evolutionary biologists to reexamine this neglected question what is the genetic basis of adaptive evolution In this volume a new generation of biologists have taken up this challenge Using advances in both molecular genetic and statistical techniques evolutionary geneticists have made considerable progress in this emerging field In this volume a diversity of examples from plant and animal studies provides valuable information for those interested in the genetics and evolution of complex traits **Patterns and Processes of Vertebrate Evolution** Robert Lynn Carroll, 1997-04-28 The factors that influenced the evolution of the vertebrates are compared with the importance of variation and selection that Darwin emphasised in this broad study of the patterns and forces of evolutionary change **The Adaptive Landscape in Evolutionary Biology** Erik 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 by Sewall Wright in 1932 Eighty years later it has become a central framework in evolutionary quantitative genetics selection studies in natural populations and in studies of ecological speciation and adaptive radiations Recently the simple concept of adaptive landscapes in two dimensions genes or traits has been criticized and several new and more sophisticated versions of the original adaptive landscape evolutionary model have been developed in response No published volume has yet critically discussed the past present state and future prospect of the adaptive landscape in evolutionary biology This volume brings together prominent historians of science philosophers ecologists and evolutionary biologists with the aim of discussing the state of the art of the Adaptive Landscape from several different perspectives **History and Evolution** Matthew H. Nitecki, Doris V. Nitecki, 1992-07-01 The studies of

evolutionary biology and of human history face the same kinds of problems and deal with the same processes Both disciplines deal with similar questions in similar ways but do the methods used produce comparable knowledge and are the differences and similarities between these disciplines real This book examines the philosophy of historical and evolutionary studies the objectivity and meanings of human and evolutionary histories the evolutionary approaches to and the analysis of history historical approaches and utilization of evolution the logic of historical and evolutionary thinking and explanations the identification of similarities differences and common problems of evolutionary biology and history and what constitutes the major historical and evolutionary events Carbon Dioxide, Populations, and Communities Fakhri A. Bazzaz, 1996-07-17 In past decades and in association with a continuing global industrial development the global atmospheric concentration of carbon dioxide has been rising Among the many predictions made concerning this disturbing trend is global warming sufficient to melt polar ice caps thereby dramatically altering existing shorelines This book will help fill an obvious gap in the carbon dioxide debate by substituting data for speculation Includes contributions from leading authorities around the world Serves as a companion to Carbon Dioxide and Terrestrial Ecosystems The first book of its kind to explore evolutionary responses of both populations and communities to elevated carbon dioxide **Invasion Genetics** Spencer C. H. Barrett, Robert I. Colautti, Katrina M. Dlugosch, Loren H. Rieseberg, 2016-07-15 Invasion Genetics the Baker demographic genetics the role of stochastic forces in the invasion process the contemporary evolution of local adaptation the significance of epigenetics and transgenerational plasticity for invasive species the genomic consequences of colonization the search for invasion genes and the comparative biology of invasive species A wide diversity of invasive organisms are discussed including plants animals fungi and microbes *Evolution Illuminated* Stephen C. Stearns, 2003-11-27 This book will appeal to investigators in each of the scientific disciplines it integrates evolutionary biology ecology salmonid biology management and conservation Variation in salmonids can be used to illustrate virtually all evolutionary questions and so the work will also attract general scientific interest by ecologists and evolutionary and conservation biologists Variation Benedikt Hallgrímsson, Brian K. Hall, 2011-05-04 Darwin's theory of evolution by natural selection was based on the observation that there is variation between individuals within the same species This fundamental observation is a central concept in evolutionary biology However variation is only rarely treated directly It has remained peripheral to the study of mechanisms of evolutionary change The explosion of knowledge in genetics developmental biology and the ongoing synthesis of evolutionary and developmental biology has made it possible for us to study the factors that limit enhance or structure variation at the level of an animal's physical appearance and behavior Knowledge of the significance of variability is crucial to this emerging synthesis Variation situates the role of variability within this broad framework bringing variation back to the center of the evolutionary stage Provides an overview of current thinking on variation in evolutionary biology functional morphology and evolutionary developmental biology Written by a team of leading scholars specializing on the study of

variation Reviews of statistical analysis of variation by leading authorities Key chapters focus on the role of the study of phenotypic variation for evolutionary developmental and post genomic biology Organism and Environment Sonia E. Sultan,2015-09-10 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or eco devo and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments Organism and Environment is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields The Pangenome Hervé Tettelin,Duccio Medini,2020-04-30 This open access book offers the first comprehensive account of the pan genome concept and its manifold implications The realization that the genetic repertoire of a biological species always encompasses more than the genome of each individual is one of the earliest examples of big data in biology that opened biology to the unbounded The study of genetic variation observed within a species challenges existing views and has profound consequences for our understanding of the fundamental mechanisms underpinning bacterial biology and evolution The underlying rationale extends well beyond the initial prokaryotic focus to all kingdoms of life and evolves into similar concepts for metagenomes phenomes and epigenomes The book s respective chapters address a range of topics from the serendipitous emergence of the pan genome concept and its impacts on the fields of microbiology vaccinology and antimicrobial resistance to the study of microbial communities bioinformatic applications and mathematical models that tie in with complex systems and economic theory Given its scope the book will appeal to a broad readership interested in population dynamics evolutionary biology and genomics *The Importance of Aquatic-Terrestrial Ecotones for Freshwater Fish* F. Schiemer,M. Zalewski,J.E. Thorpe,2013-03-09 Ecotones are interface zones between different ecosystems Their ecological role and significance with regard to ecological management and conservation has become increasingly appreciated For the management of freshwater resources for example an improved understanding of the role of land inland water interfaces will be essential for reducing negative human impacts by engineering nutrient loading siltation etc The management of ecotones on the other hand offers the possibility to control aquatic system processes via stock control of fish populations Fish apparently are both excellent indicators of ecotone quality as well as determiners of its structure and function **Macroevolution** Emanuele Serrelli,Nathalie Gontier,2015-02-13 This book is divided in two parts the first of which shows how beyond paleontology and systematics macroevolutionary theories apply key insights from ecology and

biogeography developmental biology biophysics molecular phylogenetics and even the sociocultural sciences to explain evolution in deep time In the second part the phenomenon of macroevolution is examined with the help of real life history case studies on the evolution of eukaryotic sex the formation of anatomical form and body plans extinction and speciation events of marine invertebrates hominin evolution and species conservation ethics The book brings together leading experts who explain pivotal concepts such as Punctuated Equilibria Stasis Developmental Constraints Adaptive Radiations Habitat Tracking Turnovers Mass Extinctions Species Sorting Major Transitions Trends and Hierarchies key premises that allow macroevolutionary epistemic frameworks to transcend microevolutionary theories that focus on genetic variation selection migration and fitness Along the way the contributing authors review ongoing debates and current scientific challenges detail new and fascinating scientific tools and techniques that allow us to cross the classic borders between disciplines demonstrate how their theories make it possible to extend the Modern Synthesis present guidelines on how the macroevolutionary field could be further developed and provide a rich view of just how it was that life evolved across time and space In short this book is a must read for active scholars and because the technical aspects are fully explained it is also accessible for non specialists Understanding evolution requires a solid grasp of above population phenomena Species are real biological individuals and abiotic factors impact the future course of evolution Beyond observation when the explanation of macroevolution is the goal we need both evidence and theory that enable us to explain and interpret how life evolves at the grand scale

Complexity and the Function of Mind in Nature Peter Godfrey-Smith, 1998-09-28 This book explains the relationship between intelligence and environmental complexity and in so doing links philosophy of mind to more general issues about the relations between organisms and environments and to the general pattern of externalist explanations The author provides a biological approach to the investigation of mind and cognition in nature In particular he explores the idea that the function of cognition is to enable agents to deal with environmental complexity The history of the idea in the work of Dewey and Spencer is considered as is the impact of recent evolutionary theory on our understanding of the place of mind in nature

Population Biology K. Wöhrmann, S.K. Jain, 2012-12-06 Fascinated by the diversity of living organisms humans have always been curious about its origin Darwin was the first to provide the scholarly and persuasive thesis for gradual evolution and speciation under natural selection Although we now have much information on evolution we still don't understand it in detail Many questions still remain open due to the complexity and multiplicity of interacting factors Several approaches mainly arising from population ecology and genetics are presented in this book in order to help understand genetic variation and evolution

Epistasis and the Evolutionary Process Jason B. Wolf, Edmund D. Brodie, Michael John Wade, 2000 Over the last two decades research into epistasis has seen explosive growth and has moved the focus of research in evolutionary genetics from a traditional additive approach We now know the effects of genes are rarely independent and to reach a fuller understanding of the process of evolution we need to look at gene interactions as well as gene environment

interactions This book is an overview of non additive evolutionary genetics integrating all work to date on all levels of evolutionary investigation of the importance of epistasis in the evolutionary process in general It includes a historical perspective on this emerging field in depth discussion of terminology discussions of the effects of epistasis at several different levels of biological organization and combinations of theoretical and experimental approaches to analysis

Proceedings of the 8th International Symposium on Insect-Plant Relationships Steph B.J. Menken,J.H.

Visser,Paul Harrewijn,2012-12-06 The papers in this book are organized as follows insect plant communities host plant selection genetics and evolution host plant resistance and application of transgenic plants and multitrophic interactions Besides seven invited papers and a paper with concluding remarks this volume also contains the short communications of all 115 oral presentations and posters Included too are the summaries of four European Science Foundation workshops held over the past two years where European scientists discussed the state of the art and the future of major topics in insect plant interactions in order to develop better integrated research programs The field of insect plant interactions nowadays includes almost all of biology as well as parts of chemistry and physics It takes a central position in biology because insects are the most abundant animal group half of them are herbivores and they dominate all terrestrial ecosystems Knowledge of insect plant interactions is thus fundamental to an understanding of the evolution of life on Earth Two major topics of worldwide concern give this field an extra dimension First large amounts of food crops are still lost due to insect pests With the increasing concern for environmental pollution and the subsequent plans to drastically reduce pesticides integrated pest management and development of resistant crops become a major focus in agriculture The importance of the study of insect plant relationships is thus continuously augmented Clearly successful pest control demands sufficient fundamental knowledge of pest host interactions Second such work can contribute towards stopping or even counterbalancing the threatening biodiversity crisis thanks to an understanding of how the interaction of insects and plants has influenced and still influences the diversification and speciation evolution of both groups These problems should of course be approached at a multitrophic level

Floral Biology David G. Lloyd,Spencer C.H. Barrett,2012-12-06 Studies in floral biology are largely concerned with how flowers function to promote pollination and mating The role of pollination in governing mating patterns in plant populations inextricably links the evolution of pollination and mating systems Despite the close functional link between pollination and mating research conducted for most of this century on these two fundamental aspects of plant reproduction has taken quite separate courses This has resulted in suprisingly little cross fertilization between the fields of pollination biology on the one hand and plant mating system studies on the other The separation of the two areas has largely resulted from the different backgrounds and approaches adopted by workers in these fields Most pollination studies have been ecological in nature with a strong emphasis on field research and until recently few workers considered how the mechanics of pollen dispersal might influence mating patterns and individual plant fitness In contrast work on plant mating

patterns has often been conducted in an ecological vacuum largely devoid of information on the environmental and demographic context in which mating occurs Mating system research has been dominated by population genetic and theoretical perspectives with surprisingly little consideration given to the proximate ecological factors responsible for causing a particular pattern of mating to occur *Phenotypic Plasticity* Thomas J. DeWitt, Samuel M. Scheiner, 2004-01-15

Phenotypic plasticity is the range and process of variation in body plan and physiology This book pulls together recent theoretical advances in phenotypic plasticity as influenced by evolution and development The editors and the chapter authors are among the leaders of this exciting and active subfield The volume begins with a primer on the basic principles of the subject and companion chapters on phenotypic plasticity in plants and animals Of interest to a wide range of researchers on evolution development and their interface **X International Symposium on Biological Control of Weeds, Bozeman, Montana, USA, July 4-14, 1999 ,2000**

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