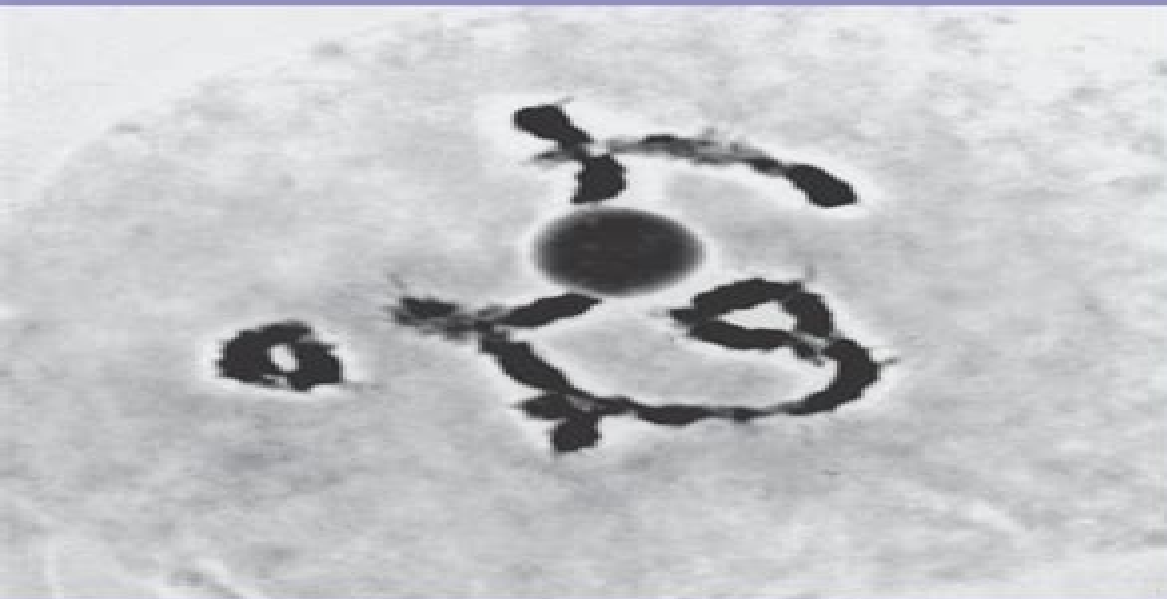


The Role of Chromosomal Change in Plant Evolution

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The Evolution and Emergence of RNA Viruses Edward C. Holmes, 2009-06-25 While the study of viral evolution has developed rapidly in the last 30 years little attention has been directed toward linking the mechanisms of viral evolution to the epidemiological outcomes of these processes This book intends to fill this gap by considering the patterns and processes of viral evolution at all its spatial and temporal scales

Evolutionary Biomechanics Graham K. Taylor, Adrian L. R. Thomas, 2014 Recent research in biomechanics is increasingly revealing a set of special cases where universal physical laws constrain the trajectories and more controversially even the endpoints of the evolutionary process For the first time this book brings together a broad range of examples from the latest research in evolutionary biomechanics to examine this phenomenon Each chapter follows a

similar theme dealing first with the underlying physics and then examining the biological responses to selection Examples of convergent evolution are used to analyse the nature of the trajectories of adaptation during the progressive approach towards a physically defined optimum This advanced textbook is suitable for graduate level students as well as professional researchers in the fields of biomechanics physiology evolutionary biology and palaeontology It will also be of relevance and use to researchers in the physical sciences and engineering The Evolutionary Biology of Species Timothy G.

Barracough,2019-06-20 Species are central to understanding the origin and dynamics of biological diversity explaining why lineages split into multiple distinct species is one of the main goals of evolutionary biology However the existence of species is often taken for granted and precisely what is meant by species and whether they really exist as a pattern of nature has rarely been modelled or critically tested This novel book presents a synthetic overview of the evolutionary biology of species describing what species are how they form the consequences of species boundaries and diversity for evolution and patterns of species accumulation over time The central thesis is that species represent more than just a unit of taxonomy they are a model of how diversity is structured as well as how groups of related organisms evolve The author adopts an intentionally broad approach stepping back from the details to consider what species constitute both theoretically and empirically and how we detect them drawing on a wealth of examples from microbes to multicellular organisms Quantitative Ecology and Evolutionary Biology Otso Ovaskainen,Henrik Johan de Knecht,Maria del Mar Delgado,2016 This is an integration of empirical data and theory in quantitative ecology and evolution through the use of mathematical models and statistical methods

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 Artificial Polyploidy in Plants Jen-Tsung Chen,Jeremy Coate,Geoffrey Meru,2021-01-21 *Lost Sex* Isa Schön,Koen Martens,Peter van Dijk,2009-09-22 Sex is the queen of problems in evolutionary biology Generations of researchers have investigated one of the last remaining evolutionary paradoxes why sex exists at all Given that sexual reproduction is costly from an evolutionary point of view one could wonder why not all animals and plants reproduce asexually Dozens of contemporary hypotheses attempt to explain the prevalence of sex and its advantages and predict the early extinction of fully asexual lineages The major theme of this book is what is the fate of animal and plant groups in which sex is lost Initial chapters discuss theory behind asexual life what major disadvantages do asexual groups have to face what are the genetic and ecological consequences and what does this theory predict for more applied aspects of asexual life for example in agricultural pests diseases as well as in cultural crops such as grapes Cases studies in many animals focusing on both invertebrates and vertebrates and plants reveal parallel but also

singularly novel adaptations to the absence of meiosis and syngamy And last but not least are asexuals really doomed to early extinction or do genuine ancient asexuals exist This book assembles contributions from the most important research groups dealing with asexual evolution in eukaryotes It is a milestone in research on parthenogenesis and will be useful to undergraduate as well as graduate students and to senior researchers in all fields of evolutionary biology as the paradox of sex remains its queen of problems Infectious Diseases in Primates Charles Nunn, Sonia M. Altizer, 2006-04-27 This title includes the following features The first book to synthesise and integrate the previously disparate areas of primate socioecology parasite functional categories host defences and theoretical models of disease spread Organizes hypotheses according to parasite traits such as transmission mode host specificity and virulence Develops a new co evolutionary framework for investigating parasites and primate social evolution at empirical and theoretical scales Ideal graduate seminar course material Ecological Speciation Patrik Nosil, 2012-03-15 The origin of biological diversity via the formation of new species can be inextricably linked to adaptation to the ecological environment Specifically ecological processes are central to the formation of new species when barriers to gene flow reproductive isolation evolve between populations as a result of ecologically based divergent natural selection This process of ecological speciation has seen a large body of particularly focused research in the last 10 15 years and a review and synthesis of the theoretical and empirical literature is now timely The book begins by clarifying what ecological speciation is its alternatives and the predictions that can be used to test for it It then reviews the three components of ecological speciation and discusses the geography and genomic basis of the process A final chapter highlights future research directions describing the approaches and experiments which might be used to conduct that future work The ecological and genetic literature is integrated throughout the text with the goal of shedding new insight into the speciation process particularly when the empirical data is then further integrated with theory

Maximum Entropy and Ecology John Harte, 2011-06-23 This pioneering graduate textbook provides readers with the concepts and practical tools required to understand the maximum entropy principle and apply it to an understanding of ecological patterns Rather than building and combining mechanistic models of ecosystems the approach is grounded in information theory and the logic of inference Paralleling the derivation of thermodynamics from the maximum entropy principle the state variable theory of ecology developed in this book predicts realistic forms for all metrics of ecology that describe patterns in the distribution abundance and energetics of species over multiple spatial scales a wide range of habitats and diverse taxonomic groups The first part of the book is foundational discussing the nature of theory the relationship of ecology to other sciences and the concept of the logic of inference Subsequent sections present the fundamentals of macroecology and of maximum information entropy starting from first principles The core of the book integrates these fundamental principles leading to the derivation and testing of the predictions of the maximum entropy theory of ecology METE A final section broadens the book's perspective by showing how METE can help clarify several major

issues in conservation biology placing it in context with other theories and highlighting avenues for future research *Plant Breeding: Past, Present and Future* John E. Bradshaw, 2016-03-08 This book aims to help plant breeders by reviewing past achievements currently successful practices and emerging methods and techniques Theoretical considerations are also presented to strike the right balance between being as simple as possible but as complex as necessary The United Nations predicts that the global human population will continue rising to 9.0 billion by 2050 World food production will need to increase between 70-100 per cent in just 40 years First generation bio fuels are also using crops and cropland to produce energy rather than food In addition land area used for agriculture may remain static or even decrease as a result of degradation and climate change despite more land being theoretically available unless crops can be bred which tolerate associated abiotic stresses Lastly it is unlikely that steps can be taken to mitigate all of the climate change predicted to occur by 2050 and beyond and hence adaptation of farming systems and crop production will be required to reduce predicted negative effects on yields that will occur without crop adaptation Substantial progress will therefore be required in bridging the yield gap between what is currently achieved per unit of land and what should be possible in future with the best farming methods and best storage and transportation of food given the availability of suitably adapted cultivars including adaptation to climate change My book is divided into four parts Part I is an historical introduction Part II deals with the origin of genetic variation by mutation and recombination of DNA Part III explains how the mating system of a crop species determines the genetic structure of its landraces Part IV considers the three complementary options for future progress use of sexual reproduction in further conventional breeding base broadening and introgression mutation breeding and genetically modified crops *Biogeography in a Changing World* Malte C. Ebach, Raymond S. Tangney, 2006-11-01 Hampered by a confusing plethora of approaches and methods biogeography is often treated as an adjunct to other areas of study The first book to fully define this rapidly emerging subdiscipline *Biogeography in a Changing World* elucidates the principles of biogeography and paves the way for its evolution into a stand alone field Drawn *Stochastic Population Dynamics in Ecology and Conservation* Russell Lande, Steinar Engen, Bernt-Erik Sæther, 2003 All populations fluctuate stochastically creating a risk of extinction that does not exist in deterministic models with fundamental consequences for both pure and applied ecology This book provides the most comprehensive introduction to stochastic population dynamics combining classical background material with a variety of modern approaches including new and previously unpublished results by the authors illustrated with examples from bird and mammal populations and insect communities Demographic and environmental stochasticity are introduced with statistical methods for estimating them from field data The long run growth rate of a population is explained and extended to include age structure with both demographic and environmental stochasticity Diffusion approximations facilitate the analysis of extinction dynamics and the duration of the final decline Methods are developed for estimating delayed density dependence from population time series using life history data Metapopulation viability and the spatial scale

of population fluctuations and extinction risk are analyzed Stochastic dynamics and statistical uncertainty in population parameters are incorporated in Population Viability Analysis and strategies for sustainable harvesting Statistics of species diversity measures and species abundance distributions are described with implications for rapid assessments of biodiversity and methods are developed for partitioning species diversity into additive components Analysis of the stochastic dynamics of a tropical butterfly community in space and time indicates that most of the variance in the species abundance distribution is due to ecological heterogeneity among species so that real communities are far from neutral *The Structure and Dynamics of Geographic Ranges* Kevin J. Gaston, 2003 A synthesis of present understanding of the structure of the geographic ranges of species which is a core issue in ecology and biogeography with implications for many of the environmental issues presently facing humankind **Living in Groups** Jens Krause, Graeme D. Ruxton, 2002-10-10 Shoals swarms flocks herds group formation is a widespread phenomenon in animal populations It raises several interesting questions for behavioral ecologists Why do animals form and live in groups and what factors influence the ways in which they do this What are the costs and benefits to an animal of group living How are these influenced by ecological factors The authors familiarize the reader with cutting edge ideas on the ecology and evolution of group living animals and detail fascinating case studies demonstrating them in action

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