

Sex and Evolution

GEORGE C. WILLIAMS

MONOGRAPHS IN POPULATION BIOLOGY · 8

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Ricard V. Solé, Jordi Bascompte



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Geographical Genetics (MPB-38) Bryan K. Epperson, 2003-08-31 Population genetics has made great strides in applying statistical analysis and mathematical modeling to understand how genes mutate and spread through populations over time But real populations also live in space Streams mountains and other geographic features often divide populations limit migration or otherwise influence gene flow This book rigorously examines the processes that determine geographic patterns of genetic variation providing a comprehensive guide to their study and interpretation Geographical Genetics has a unique focus on the mathematical relationships of spatial statistical measures of patterns to stochastic processes It also develops the probability and distribution theory of various spatial statistics for analysis of population genetic data detailing exact methods for using various spatial features to make precise inferences about migration natural selection and other dynamic forces The book also reviews the experimental literature on the types of spatial patterns of genetic variation found within and among populations And it makes an unprecedented strong connection between observed measures of spatial patterns and those predicted theoretically Along the way it introduces readers to the mathematics of spatial statistics applications to specific population genetic systems and the relationship between the mathematics of space time processes and the formal theory of geographical genetics Written by a leading authority this is the first comprehensive treatment of geographical genetics It is a much needed guide to the theory techniques and applications of a field that will play an increasingly important role in population biology and ecology

Nonverbal Communication in Close Relationships Robert J. Sternberg, Aleksandra Kostić, 2022-03-15 This book is an up to date compendium of knowledge on the secret language of close relationships namely nonverbal routes of communication In close relationships as everyone learns sooner or later the usefulness of words can be somewhat limited because people a mean different things by the same words b mean the same thing by different words c sometimes find it hard to express their feelings in words and d lie Nonverbal signals therefore often provide the best means of communication The book points out how decoding interpreting nonverbal signals is a major key to success because often what people say wholly belies how they feel nonverbal signals reveal their true feelings rather than what they want other people to think their feelings are This book helps decode those secret signals The book is written by the leading worldwide experts in the field of nonverbal communication to ensure accuracy comprehensiveness and timeliness

Ecological Niches and Geographic Distributions (MPB-49) A. Townsend Peterson, 2011-11-20 Terminology conceptual overview biogeography modeling

The Unified Neutral Theory of Biodiversity and Biogeography (MPB-32) Stephen P. Hubbell, 2001-04-29 Despite its importance and the threat of its global crash biodiversity is poorly understood both empirically and theoretically This work presents a neutral general theory to explain the origin maintenance and loss of biodiversity in a biogeographical context

Self-Organization in Complex Ecosystems. (MPB-42) Ricard V. Solé, Jordi Bascompte, 2006-03-26 Describing a theoretical view of ecosystems based on how they self organise to produce

complex patterns this book focuses on very simple models that despite their simplicity encapsulate fundamental properties of how ecosystems work

La naturaleza del sexo Pablo Rodríguez Palenzuela, 2024-05-09 Desde el punto de vista de la biología solo hay dos cosas realmente importantes el sexo y la muerte Desde el punto de vista de la biología nos dice Pablo Rodríguez Palenzuela en las primeras páginas de este libro solo hay dos cosas realmente importantes el sexo y la muerte La naturaleza del sexo ofrece una mirada rigurosa y libre de prejuicios a la primera de estas incógnitas combinando una prosa vivaz y entretenida con la investigación más puntera en el campo de la biología del sexo para cubrir una enorme diversidad de temas desde la sexualidad y la reproducción en el reino animal hasta las últimas polémicas entre sexo y género en la especie humana pasando por la selección sexual o la crianza cooperativa Se trata en definitiva de un texto llamado a despertar gran interés por su enfoque serio y científico a la vez que accesible y muy entretenido y por despejar dudas ideológicas desde el conocimiento biológico

Sex and Evolution George Christopher Williams, 1975-03-21 This book explores the relationship between various types of reproduction and the evolutionary process Starting with the concept of meiosis George C Williams states the conditions under which an organism with both sexual and asexual reproductive capacities will employ each mode He argues that in low fecundity higher organisms sexual reproduction is generally maladaptive and persists because there is no ready means of developing an asexual alternative The book then considers the evolutionary development of diverse forms of sexuality such as anisogamy hermaphroditism and the evolution of differences between males and females in reproductive strategy The final two chapters examine the effect of genetic recombination on the evolutionary process itself

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Advances in the Study of Behavior , 2013-05-16 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presents theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields

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to Books in Print ,1993 **Scientific and Technical Books and Serials in Print** ,1984 Medical and Health Care Books and Serials in Print ,1986 **Genetic Mapping and Marker Assisted Selection** N. Manikanda

Boopathi,2020-04-07 The first edition of this book Genetic Mapping and Marker Assisted Selection Basics Practice and Benefits was widely appreciated as the first of its kind on this topic and has been listed as a reference work in several agricultural universities curricula A great deal has happened over the last five years making it high time to incorporate recent developments in genetic mapping and report on novel strategies in marker assisted selection in crop plants as a second edition This book addresses a range of topics including new marker types and their genotyping methods based on high throughput technologies advances in genomics and their role in new marker development improvements in genetic mapping strategies and software updates developments in phenomics and their applications in QTL mapping and how to incorporate these developments and advances in marker assisted selection in crop plants Similar to the first edition each technique and method is explained using a step by step method allowing the book to serve as a self study guide for scholars whose work involves the genetic improvement of crop plants for any trait of interest particularly for biotic and abiotic stress resistance In addition the book offers a valuable guide for undergraduate and graduate students at agricultural universities and institutes that are interested and or involved in the genetic improvement of crop plants using modern tools In addition the bibliography includes a list of suggested works for pursuing further research on the topics covered **Medical Books**

and Serials in Print ,1983 Adaptation and Phenotypic Plasticity to Climate Change Timothy Ravasi,Jennifer Marie Donelson,Jose M. Eirin-Lopez,Lisa N. S. Shama,2022-05-05 **Recent HIV Seroprevalence Levels by Country** ,1994

Oral and Maxillofacial Surgery: Cleft, craniofacial, cosmetic surgery Raymond J. Fonseca,2000 Biodiversity Conservation and Sustainable Development of Protected Areas Wei Wang,Isa-Rita Russo,Weiguo Sang,Tianxiao Ma,Binbin V. Li,2024-07-17 With the general consensus on sustainable development worldwide the balance between nature conservation and poverty eradication has become an inevitable choice Biodiversity including ecosystem diversity species diversity and genetic diversity refers to the ecological complex formed by living organisms as well as their surrounding environment Biodiversity provides ecosystem services essential for human well being and is also interrelated with regional socio economic development Protected areas are the most direct and effective initiative to conserve biodiversity while increasing evidence shows that the services provided by intact and functioning ecosystems in protected areas are also of great value to human livelihoods health and well being Therefore biodiversity conservation and sustainable development within and around protected areas have become a central topic in the field of conservation ecology With this aim in mind we would like to invite scholars to share novel findings on biodiversity conservation and the sustainable development of protected areas The research topic will cover progress in the maintaining and sustainable use of different features of biodiversity ecosystems animals plants micro organisms etc We welcome contributions to the fundamental theories technologies and approaches and

practices toward a better understanding of the relationship between biodiversity conservation and regional development within and around protected areas

Sex And Evolution Mpb 8 Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Sex And Evolution Mpb 8**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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