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Population Biology 1984

self contained and reader friendly this volume provides a balanced blend of evolutionary theory population genetics and systematics with an emphasis on the experimental approach

Population Genetics and Evolution 1988

one of this century s leading evolutionary biologists motoo kimura revolutionized the field with his random drift theory of molecular evolution the neutral theory and his groundbreaking theoretical work in population genetics this volume collects 57 of kimura s most important papers and covers forty years of his diverse and original contributions to our understanding of how genetic variation affects evolutionary change kimura s neutral theory first presented in 1968 challenged the notion that natural selection was the sole directive force in evolution arguing that mutations and random drift account for variations at the level of dna and amino acids kimura advanced a theory of evolutionary change that was strongly challenged at first and that eventually earned the respect and interest of evolutionary biologists throughout the world this volume includes the seminal papers on the neutral theory as well as many others that cover such topics as population structure variable selection intensity the genetics of quantitative characters inbreeding systems and reversibility of changes by random drift background essays by naoyuki takahata examine kimura s work in relation to its effects and recent developments in each area

Population Genetics, Molecular Evolution, and the Neutral Theory 1994

this 2004 collection of essays deals with the foundation and historical development of population biology and its relationship to population genetics and population ecology on the one hand and to the rapidly growing fields of molecular quantitative genetics genomics and bioinformatics on the other such an interdisciplinary treatment of population biology has never been attempted before the volume is set in a historical context but it has an up to date coverage of material in various related fields the areas covered are the foundation of population biology life history evolution and demography density and frequency dependent selection recent advances in quantitative genetics and bioinformatics evolutionary case history of model organisms focusing on polymorphisms and selection mating system evolution in the hybrid zones and applied population biology including conservation infectious diseases and human diversity this is the third of three volumes published in honour of richard lewontin

The Evolution of Population Biology 2004-01-15

this concise introduction offers students and researchers an overview of the discipline that connects genetics and evolution addressing the theories behind population genetics and relevant empirical evidence john gillespie discusses genetic drift natural selection nonrandom mating quantitative genetics and the evolutionary advantage of sex first published to wide acclaim in 1998 this brilliant primer has been updated to include new sections on molecular evolution genetic drift genetic load the stationary distribution and two locus dynamics this book is indispensable for students working in a laboratory setting or studying free ranging populations

Population Genetics 2004-08-06

making the theory of population genetics relevant to readers this book explains the related mathematics with a logical organization it presents the quantitative aspects of population genetics and employs examples of human genetics medical evolution human evolution and endangered species for an introduction to and understanding of population genetics

The Evolution of Population Theory 1977-02-25

the advances made possible by the development of molecular techniques have in recent years revolutionized quantitative genetics and its relevance for population genetics population genetics and microevolutionary theory takes a modern approach to population genetics incorporating modern molecular biology species level evolutionary biology and a thorough acknowledgment of quantitative genetics as the theoretical basis for population genetics logically organized into three main sections on population structure and history genotype phenotype interactions and selection adaptation extensive use of real examples to illustrate concepts written in a clear and accessible manner and devoid of complex mathematical equations includes the author s introduction to background material as well as a conclusion for a handy overview of the field and its modern applications each chapter ends with a set of review questions and answers offers helpful general references and internet links

Introduction to Population Genetics 2004

these volumes discuss evolutionary biology through the lense of population genetics

Population Biology and Evolution 1968

this volume contains the papers presented at a symposium on popula tion biology sponsored by the deutsche forschungsgemeinschaft it was held at the guest house of the university of ttibingen at oberjoch on may 15 19 1983 prior to this conference a small group of european biologists had met in berlin june 1981 and pavia september 1982 to discuss re search problems on the borderline between population genetics and evolutionary ecology from the contributions and discussions at these meetings it became evident that the unification of approaches to evolutionary problems in population genetics and evolutionary ecology has not yet been suc cessful and requires further efforts it was the consensus that a larger symposium with international participation would be helpful to con front and discuss the different approaches to population biology in order to assess where we are now and where we should be going as a result an organizational committee was formed f christiansen s jayakar v loeschcke w scharloo and k w6hrmann to iden tify topics that seemed at least to them to be fruitful in tackling problems in population biology consequently a number of colleagues were asked to participate in the meeting we have divided this book into chapters corresponding to the eight topics chosen the volume begins with the relation between genotype and phenotype and is followed by a chapter on quantitative genetics and selection in natural populations

Population Genetics and Microevolutionary Theory 2006-09-29

professor levins one of the leading explorers in the field of integrated population biology considers the mutual interpenetration and joint evolution of organism and environment occurring on several levels at once physiological and behavioral adaptations to short term fluctuations of the environment condition the responses of populations to long term changes and geographic gradients these in turn affect the way species divide the environments among themselves in communities and therefore the numbers of species which can coexist environment is treated here abstractly as pattern patchiness variability range etc populations are studied in their patterns local heterogeneity geographic variability faunistic diversity etc

Evolution and the Genetics of Populations, Volume 4 1984-06-15

this compelling text examines evolution its definition the scientific evidence that evolution has taken place natural selection darwin s origin of species genetics and evolution population genetics patterns in evolution and species concepts the story of life and geological time and human evolution the easy to follow narrative offers students additional biological information in sidebars such as closeup boxes that give details about main concepts try this boxes that provide safe experiments for readers to perform what do you think panels that challenge students reading comprehension applications boxes that describe how biological knowledge improves daily life red herring boxes that profile failed theories hot debate panels that spotlight the disagreements and discussions that rage in the biological sciences and genetic perspective boxes that summarize the latest genetic research the text serves as a must have resource on modern thinking about evolution and the history of evolutionary theories

Population Biology and Evolution 2012-12-06

an inspiring introduction to a vital scientific field the reader is taken through ten mathematical derivations that lead to important results explaining in a hands on manner the key concepts and methods of theoretical population genetics the derivations are carefully worked out and easy to follow particular attention is given to the underlying assumptions and the mathematics used the results are discussed and broadened out with relevant current implications all topics feature questions with helpful answers the book is intended for the reader who already knows some population genetics but requires a more comprehensive understanding it is particularly suited to those who analyse genetic data and wish to better grasp what their results actually mean it will also be helpful for those who wish to understand how population genetics contributes to the explanation of evolution or as the writers claim if one wants to understand life in all its improbable and amazing richness one must start by understanding population genetics

Evolution in Changing Environments 2020-03-31

these volumes discuss evolutionary biology through the lense of population genetics

The Basics of Evolution 2013-07-15

papers presented at a symposium at woudschoten utrecht the netherlands september 7 13 1986

Understanding Population Genetics 2017-07-14

to show the importance of stochastic processes in the change of gene frequencies the authors discuss topics ranging from molecular evolution to two locus problems in terms of diffusion models throughout their discussion they come to grips with one of the most challenging problems in population genetics the ways in which genetic variability is maintained in mendelian populations r a fisher j b s haldane and sewall wright in pioneering works confirmed the usefulness of mathematical theory in population genetics the synthesis their work achieved is recognized today as mathematical genetics that branch of genetics whose aim is to investigate the laws governing the genetic structure of natural populations and consequently to clarify the mechanisms of evolution for the benefit of population geneticists without advanced mathematical training professors kimura and ohta use verbal description rather than mathematical symbolism wherever practicable a mathematical appendix is included

Introduction to Population Biology & Evolution 1979

this book is devoted to the collection interpretation and analysis of population genetic data among the topics included here are studies on human evolutionary history molecular techniques for generating data statistical and computational techniques for the interpretation of such data and stochastic models for genealogy and population structure the chapters reflect the close interaction between experimental molecular biologists and theoreticians the book will be useful for specialists in the area as well as mathematicians statisticians computer scientists and biologists wanting a brief overview of current problems in the field

Evolution and the Genetics of Populations, Volume 3 1984-06-15

the populations of many species of animals and plants are age structured i e the individuals present at any one time were born over a range of different times and their fertility and survival depend on age the properties of such populations are important for interpreting experiments and observations on the genetics of populations for animal and plant breeding and for understanding the evolution of features of life histories such as senescence and time of reproduction in this new edition brian charlesworth provides a comprehensive review of the basic mathematical theory of the demography and genetics of age structured populations the mathematical level of the book is such that it will be accessible to anyone with a

Population Genetics and Evolution 1988-03-21

darwinian evolution in mendelian populations random genetic drift mutation and the neutral theory natural selection inbreeding and other forms of nonrandom mating population subdivision and migration molecular population genetics evolutionary genetics of quantitative characters ecological genetics and speciation

Theoretical Aspects of Population Genetics 1971-10-21

fascinated by the diversity of living organisms humans have always been curious about its origin darwin was the first to provide the scholary 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

The Population Problem 1922

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Progress in Population Genetics and Human Evolution 1997-02-27

provides a quantitative and darwinian perspective on population biology with problem sets simulations and worked examples to aid the student

Evolution in Age-Structured Populations 1994-06-30

how to learn population biology population genetics ecology biogeography species equilibrium theory

Principles of Population Genetics 1989

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

Population, Ecology, and Social Evolution 2011-06-03

various approaches have been developed to evaluate the consequences of spatial structure on evolution in subdivided populations this book is both a review and new synthesis of several of these approaches based on the theory of spatial genetic structure françois rousset examines sewall wright s methods of analysis based on f statistics effective size and diffusion approximation coalescent arguments william hamilton s inclusive fitness theory and approaches rooted in game theory and adaptive dynamics setting these in a framework that reveals their common features he demonstrates how efficient tools developed within one approach can be applied to the others rousset not only revisits classical models but also presents new analyses of more recent topics such as effective size in metapopulations the book most of which does not require fluency in advanced mathematics includes a self contained exposition of less easily accessible results it is intended for advanced graduate students and researchers in evolutionary ecology and population genetics and will also interest applied mathematicians working in probability theory as well as statisticians

Population Biology 1990-02-28

this expository book presents the mathematical description of evolutionary models of populations subject to interactions e g competition within the population the author includes both models of finite populations and limiting models as the size of the population tends to infinity the size of the population is described as a random function of time and of the initial population the ancestors at time 0 the genealogical tree of such a population is given most models imply that the population is bound to go extinct in finite time it is explained when the interaction is strong enough so that the extinction time remains finite when the ancestral population at time 0 goes to infinity the material could be used for teaching stochastic processes together with their applications Étienne pardoux is professor at aix marseille university working in the field of stochastic analysis stochastic partial differential equations and probabilistic models in evolutionary biology and population genetics he obtained his phd in 1975 at university of paris sud

Population Biology 2011-12-16

this volume presents a review of metapopulation biology it describes key theories of study and applies the best field studies to the conservation of species in fragmented landscapes the work explains and critically assess the value of the metapopulation concept for field studies and conservation

The Evolution of Human Population Size 1999

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Introduction to Population Biology 2004

excerpt from the population problem a study in human evolution i wish to express my very great obligations to professor I t hobhouse who read through the whole book in manuscript and furnished me with numerous most valuable suggestions and criticisms to mr julian huxley who read the chapters which deal most directly with biological problems i am also indebted for valuable help the calculations which appear in the last section of the fifth chapter i owe to mr h t tizard about the publisher forgotten books publishes hundreds of thousands of rare and classic books find more at forgottenbooks com this book is a reproduction of an important historical work forgotten books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy in rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition we do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

Primer Of Population Biology 1971

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The Causes of Evolution 1990-10-10

research in modern experimental and theoretical population genetics has been strengthened by advances in molecular techniques for the analysis of genetic variability the evolutionary relationships of organisms may be investigated by comparing dna sequences this book covers chapters on population genetics dna polymorphism genetic homeostasis an

Genetic Structure and Selection in Subdivided Populations 2004-01-25

tracing the development of population genetics through the writings of such luminaries as darwin galton pearson fisher haldane and wright william b provine sheds light on this complex field as well as its bearing on other branches of biology

Probabilistic Models of Population Evolution 2016-06-17

this is the first of a planned two volume work discussing the mathematical aspects of population genetics with an emphasis on evolutionary theory this volume draws heavily from the author s 1979 classic but it has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition such as the theory of molecular population genetics

Metapopulation Biology 1997

POPULATION PROBLEM A STUDY IN 2016-08-27

The Population Problem 2016-09-16

The Population Problem a Study in Human Evolution 2022-10-27

Molecular Evolution and Population Genetics for Marine Biologists 2015-08-24

The Origins of Theoretical Population Genetics 2001-05

Polyploid Population Genetics and Evolution - From

Theory to Practice 2020-01-28

Mathematical Population Genetics 1 2004-01-09

POPULATION PROBLEM 2018

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