

- **Different types of population genetics:**
 - **Empirical population genetics**: measures and quantifies aspects of genetic variation in populations.
 - **Theoretical population genetics**: explains variation in terms of mathematical models of the forces that change allele frequencies (genetics drift, selection, gene flow, etc.).

Theoretical Aspects Of Population Genetics

William B. Provine



Theoretical Aspects Of Population Genetics:

Theoretical Aspects of Population Genetics Motoo Kimura, Tomoko Ohta, 2020-03-31 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

Theoretic Aspects of Population Genetics Motoo Kimura, Tomoko Ohta, 1971 **Theoretical Population Genetics** J.S. Gale, 2012-12-06 The rise of the neutral theory of molecular evolution seems to have aroused a renewed interest in mathematical population genetics among biologists who are primarily experimenters rather than theoreticians This has encouraged me to set out the mathematics of the evolutionary process in a manner that I hope will be comprehensible to those with only a basic knowledge of calculus and matrix algebra I must acknowledge from the start my great debt to my students Equipped initially with rather limited mathematics they have pursued the subject with much enthusiasm and success This has enabled me to try a number of different approaches over the years I was particularly grateful to Dr L J Eaves and Professor W E Nance for the opportunity to give a one semester course at the Medical College of Virginia and I would like to thank them their colleagues and their students for the many kindnesses shown to me during my visit I have concentrated almost entirely on stochastic topics since these cause the greatest problems for non mathematicians The latter are particularly concerned with the range of validity of formulae A sense of confidence in applying these formulae is almost certainly best gained by following their derivation I have set out proofs in fair detail since in my experience minor points of algebraic manipulation occasionally cause problems To avoid loss of continuity I have sometimes put material in notes at the end of chapters *Mathematical Population Genetics 1* Warren J. Ewens, 2004-01-09 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

Mathematical Population Genetics 1 Warren J. Ewens, 2012-10-01 Population genetics occupies a central role in a number of important biological and social undertakings It is fundamental to our understanding of evolutionary processes of plant and animal breeding programs and of various diseases of particular importance to mankind This is the first of a planned two

volume work discussing the mathematical aspects of population genetics with an emphasis on the evolutionary theory This first volume draws heavily from the author's classic 1979 edition which appeared originally in Springer's Biomathematics series It has been revised and expanded to include recent topics which follow naturally from the treatment in the earlier edition e.g. the theory of molecular population genetics This book will appeal to graduate students and researchers in mathematical biology and other mathematically trained scientists looking to enter the field of population genetics

Population Genetics, Molecular Evolution, and the Neutral Theory Motoo Kimura, 1994 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 **Some**

Theoretical Aspects of Random Equations of Evolution in Theoretical Population Genetics Andrew Ian Dale, 1971

Theory and Experiment in Molecular Population Genetics Michael R. Dietrich, 1991

Theories of Population Variation in Genes and Genomes Freddy B. Christiansen, 2008 This textbook provides an authoritative introduction to both classical and coalescent approaches to population genetics Written for graduate students and advanced undergraduates by one of the world's leading authorities in the field the book focuses on the theoretical background of population genetics while emphasizing the close interplay between theory and empiricism Traditional topics such as genetic and phenotypic variation mutation migration and linkage are covered and advanced by contemporary coalescent theory which describes the genealogy of genes in a population ultimately connecting them to a single common ancestor Effects of selection particularly genomic effects are discussed with reference to molecular genetic variation The book is designed for students of population genetics bioinformatics evolutionary biology molecular evolution and theoretical biology as well as biologists molecular biologists breeders biomathematicians and biostatisticians Contains up to date treatment of key areas in classical and modern theoretical population genetics Provides in depth coverage of coalescent theory Discusses genomic effects of selection Gives examples from empirical population genetics Incorporates figures diagrams and boxed features throughout Includes end of chapter exercises Speaks to a wide range of students in biology bioinformatics and biostatistics **Population Genetics and**

Microevolutionary Theory Alan R. Templeton, 2006-09-29 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 Richard Halliburton, 2004 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

A Primer of Population Genetics Daniel L. Hartl, 1988 The use of molecular methods to study genetic polymorphisms has made a familiarity with population genetics essential for any biologist whose work is at the population level A Primer of Population Genetics Third Edition provides a concise but comprehensive introduction to population genetics The four chapters of the book address genetic variation the causes of evolution molecular population genetics and the genetic architecture of complex traits Chapter end problems reinforce ideas and while there are some equations the emphasis is on explanation rather than derivation

The Origins of Theoretical Population Genetics William B. Provine, 2020-07-24 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

Mathematical Structures in Population Genetics Илья́ Ли́уби́ч, 1992 *Genes in Populations* Eliot B. Spiess, 1989-10-20 In this revised and updated edition of the comprehensive population genetics book treatment extends basic genetic principles to the dynamics of genes and genotypes in groups of interbred individuals Presents three points of view evolutionary quantitative and medical anthropological Considers random mating non random mating and evolutionary forces that can change gene and genotype frequencies over time The impact of DNA sequencing is addressed and illustrative examples from the experimental literature are included

Progress in Population Genetics and Human Evolution Peter Donnelly, 1997-02-27 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 The American Naturalist ,1912 **Population Genetics in Forestry** IUFRO Working Party "Ecological and Population Genetics." Meeting,1985 **Population Genetics and Evolution** Lawrence E. Mettler,Thomas G. Gregg,Henry E. Schaffer,1988 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 Annual Review of Genetics ,1987 Publishes original critical reviews of the significant literature and current development in genetics

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