

Population Genetics And Microevolutionary Theory

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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

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genetics and genomics understanding dna and inheritance serves as a comprehensive guide to the fascinating world of genetics and genomics this book delves into the molecular mechanisms that underlie heredity examining how traits are passed down from one generation to the next it starts with the basics of genetic inheritance and the structure of dna before expanding into the revolutionary field of genomics where the complete genetic makeup of organisms is explored in detail the book is structured to provide both foundational knowledge and the latest advancements in the field topics include the study of mendelian inheritance the role of mutations genetic variations and the impact of genomics on modern medicine the text also explores advanced technologies such as crispr gene editing and next generation sequencing illustrating how these innovations are transforming the way we understand and manipulate genes designed for students educators and professionals this book combines theoretical concepts with practical applications making complex ideas accessible and engaging it emphasizes the importance of genetics and genomics in everyday life from health care to agriculture while highlighting their potential to address global challenges through its detailed content and clear explanations the book offers readers a well rounded understanding of the principles that govern life at the molecular level

introductory guide to human population genetics and microevolutionary theory providing an introduction to mathematical population genetics human population genetics gives basic background on the mechanisms of human microevolution this text combines mathematics biology and anthropology and is best suited for advanced undergraduate and graduate study thorough and accessible human population genetics presents concepts and methods of population genetics specific to human population study utilizing uncomplicated mathematics like high school algebra and basic concepts of probability to explain theories central to the field by describing changes in the frequency of genetic variants from one generation to the next this book hones in on the

mathematical basis of evolutionary theory human population genetics includes helpful formulae for learning ease graphs and analogies that make basic points and relate the evolutionary process to mathematical ideas glossary terms marked in boldface within the book the first time they appear in text citations that act as reference points for further research exemplary case studies topics such as hardy weinberg equilibrium inbreeding mutation genetic drift natural selection and gene flow human population genetics solidifies knowledge learned in introductory biological anthropology or biology courses and makes it applicable to genetic study note errata for the first edition can be found at the author s website employees oneonta edu relethjh hpg errata pdf

genetics and genetic engineering explores the great discoveries in genetics the study of genes and the inherited information they contain genetic engineering alters the genetic make up of an organism using techniques that remove heritable material or that introduce dna prepared outside the organism either directly into the host or into a cell that is then fused or hybridized with the host this involves using recombinant nucleic acid dna or rna techniques to form new combinations of heritable genetic material followed by the incorporation of that material either indirectly through a vector system or directly through micro injection macro injection and micro encapsulation techniques genetic engineering also called genetic modification is the direct manipulation of an organism s genes using biotechnology it is a set of technologies used to change the genetic makeup of cells including the transfer of genes within and across species boundaries to produce improved or novel organisms new dna is obtained by either isolating or copying the genetic material of interest using recombinant dna methods or by artificially synthesizing the dna a construct is usually created and used to insert this dna into the host organism the first recombinant dna molecule was made by paul berg in 1972 by combining dna from the monkey virus sv40 with the lambda virus as well as inserting genes the process can be used to remove or e knock out e genes the new dna can be inserted randomly or targeted to a specific part of the genome this book will prove equally useful for physicians nurses animal breeders and laboratory technicians in fact everyone whose daily work involves genetics and genetic engineering

an integrative approach linking the causes of migration to genetic consequences for human evolution

reviews key areas in ecological medical and molecular parasitology features essays from some of the world's leading parasitologists each topic is set in context by featuring a key paper from the journal of parasitology over the past 100 years

this book describes the genetic mechanisms that govern the development and evolution of animals and plants in particular the book focuses on animal and plant species evolving in isolated habitats and species colonizing new territories this approach studying founder populations enables geneticists to more readily identify some of the evolutionary pressures affecting the speciation process the founder principle in population genetics was elucidated in large part by hampton carson in classic studies of hawaiian fruit flies drosophila the editors of this volume have commissioned seventeen chapters by an internationally recognized group of geneticists who discuss the principle in relation to plant speciation chromosomal evolution molecular evolution and development sexual selection and genetic changes in natural populations

much recent research in evolutionary developmental biology has focused on the origin of new body plans however most evolutionary change at the population and species level consists of tinkering small scale alterations in developmental pathways within a single body plan such microevolutionary events have been well studied on a population genetic level and from the perspective of adaptive phenotypic evolution but their developmental mechanisms remain poorly studied this book explores both theoretical and practical issues of tinkering it features a wide range of perspectives to address several fundamental questions how does tinkering occur developmentally and how is it manifested phenotypically are the developmental mechanisms by which tinkering occur different from those that underlie larger evolutionary changes what are the developmental constraints on tinkering and how do we test hypotheses about microevolutionary shifts in development from the fossil record with contributions from experts in a range of fields this fascinating book makes exciting reading for anyone studying evolution developmental biology or

genetics

from guppies to galapagos finches and from adaptive landscapes to haldanes this compilation of contributed works provides reviews perspectives theoretical models statistical developments and empirical demonstrations exploring the tempo and mode of microevolution on contemporary to geological time scales new developments and reviews of classic and novel empirical systems demonstrate the strength and diversity of evolutionary processes producing biodiversity within species perspectives and theoretical insights expand these empirical observations to explore patterns and mechanisms of microevolution methods for its quantification and implications for the evolution of biodiversity on other scales this diverse assemblage of manuscripts is aimed at professionals graduate students and advanced undergraduates who desire a timely synthesis of current knowledge an illustration of exciting new directions and a springboard for future investigations in the study of microevolution in the wild

history and scope of the biological sciences history of biology characteristics of living beings levels of biotic organization population species and communities philosophy of biological sciences

the second volume of the publication of the excavations at lerna deals with the human bones that were found and gives a physical anthropological study of them

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