

Population Genetics And Microevolutionary Theory

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population genetics and microevolutionary theory explore the fundamentals of the biological implications of population genetic theory in the newly revised second edition of population genetics and microevolutionary theory accomplished researcher and author alan r templeton delivers a fulsome discussion of population genetics with coverage of exciting new developments in the field including new discoveries in epigenetics and genome wide studies the book prepares students to successfully apply population genetics analytical tools by providing a solid foundation in microevolutionary theory the book emphasizes that population structure forms the underlying template upon which quantitative genetics and natural selection operate and is a must read for

future population and evolutionary geneticists and those who wish to work in genetic epidemiology or conservation biology you'll learn about a wide array of topics including quantitative genetics the interactions of natural selection with other evolutionary forces and selection in heterogeneous environments and age structured populations appendices that cover genetic survey techniques and probability and statistics conclude the book readers will also benefit from the inclusion of a thorough introduction to population genetics including the scope of the subject its premises and the hardy weinberg model of microevolution an exploration of systems of mating including a treatment of the use of runs of homozygosity to show pedigree inbreeding in distant ancestors a practical discussion of genetic drift including the use of effective sizes in conservation biology with a discussion of african rhinos as an example a concise examination of coalescence including a treatment of the infinite sites model perfect for graduate students in genetics and evolutionary biology programs and advanced undergraduate biology majors population genetics and microevolutionary theory will also earn a place in the libraries of students taking courses in conservation biology human genetics bioinformatics and genomics

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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