

# 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

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

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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

detailed study of the geographic distribution of genetic traits among australian aboriginal populations theories of racial origin population structure and movement population genetics blood groupings dentition morphological metrical and idicial traits relation to regional temporal environmental and linguistic factors territorial groupings

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