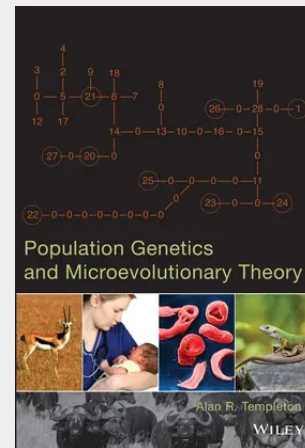


Population Genetics and Microevolutionary Theory

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

An elegant introduction to population genetics Written in the context of new molecular techniques for genetic analysis, Population Genetics and Microevolutionary Theory takes a modern approach to population genetics, incorporating today's 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--population structure and history, genotype/phenotype, and selection/adaptation--the text stresses a multidimensional model of evolution throughout, examining how multiple factors working together lead to biological phenomena. Three simple premises of DNA behavior are used to derive population genetics theory, and quantitative genetics is discussed as a foundation for understanding natural selection. Real examples illustrate concepts, with many examples taken from human genetics and evolution. Population Genetics and Microevolutionary Theory also features: * An introduction to background material * A conclusion providing a handy overview of the field and its modern applications * Review questions and answers at the end of each chapter * An appendix on genetic survey techniques * An appendix on statistical analysis and theory * Helpful general references and Internet links Written in a clear and accessible manner, without complex mathematical equations, Population Genetics and Microevolutionary Theory gives graduate and advanced undergraduate students an elegant introduction to this key field of modern biology.



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