1. Record Nr. UNINA9910143572403321

Autore	Templeton Alan Robert
Titolo	Population genetics and microevolutionary theory / / Alan R. Templeton
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Liss, c2006 Hoboken, N.J. : , : Wiley-Liss, , 2006
ISBN	9780470047354 1-280-64901-1 9786610649013 0-470-04735-6 0-470-04721-6
Descrizione fisica	1 online resource (717 p.)
Classificazione	467 576.5/8
Disciplina	576.58
Soggetti	Population genetics Evolution (Biology)
Lingua di pubblicazione	Non definito
Formato	Multimedia
Livello bibliografico	Monografia
Note generali	Includes bibliographical references (p. 582-611) and index
Nota di bibliografia	Includes bibliographical references (p. 582-611) and index.
Nota di contenuto	POPULATION GENETICS AND MICROEVOLUTIONARY THEORY; CONTENTS; PREFACE; 1. SCOPE AND BASIC PREMISES OF POPULATION GENETICS; PART I. POPULATION STRUCTURE AND HISTORY; 2. MODELING EVOLUTION AND THE HARDY-WEINBERG LAW; 3. SYSTEMS OF MATING; 4. GENETIC DRIFT; 5. GENETIC DRIFT IN LARGE POPULATIONS AND COALESCENCE; 6. GENE FLOW AND POPULATION SUBDIVISION; 7. GENE FLOW AND POPULATION HISTORY; PART II. GENOTYPE AND PHENOTYPE; 8. BASIC QUANTITATIVE GENETIC DEFINITIONS AND THEORY; 9. QUANTITATIVE GENETICS: UNMEASURED GENOTYPES; 10. QUANTITATIVE GENETICS: MEASURED GENOTYPES PART III. NATURAL SELECTION AND ADAPTATION11. NATURAL SELECTION; 12. INTERACTIONS OF NATURAL SELECTION WITH OTHER EVOLUTIONARY FORCES; 13. UNITS AND TARGETS OF SELECTION; 14. SELECTION IN HETEROGENEOUS ENVIRONMENTS; 15. SELECTION IN AGE-STRUCTURED POPULATIONS; APPENDIX 1. GENETIC SURVEY TECHNIQUES; APPENDIX 2. PROBABILITY AND STATISTICS; REFERENCES; PROBLEMS AND ANSWERS; INDEX

Sommario/riassunto

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/