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Nota di contenuto	<p>Title page; Copyright page; Contents; Guest Box authors; Preface; Preface to the first edition; List of symbols; PART I: Introduction; CHAPTER 1: Introduction; 1.1 Genetics and Civilization; 1.2 What Should We Conserve?; 1.2.1 Phylogenetic diversity; 1.2.2 Populations, species, or ecosystems?; 1.3 How Should We Conserve Biodiversity?; 1.4 Applications of Genetics to Conservation; 1.5 The Future; Guest Box 1: L. Scott Mills and Michael E. Soulé, The role of genetics in conservation; CHAPTER 2: Phenotypic variation in natural populations; 2.1 Color Pattern; 2.2 Morphology; 2.3 Behavior</p> <p>2.4 Phenology2.5 Differences Among Populations; 2.5.1 Countergradient variation; 2.6 Nongenetic Inheritance; Guest Box 2: Chris J. Foote, Looks can be deceiving: countergradient variation in secondary sexual color in sympatric morphs of sockeye salmon; CHAPTER 3: Genetic variation in natural populations: chromosomes and proteins; 3.1 Chromosomes; 3.1.1 Karyotypes; 3.1.2 Sex chromosomes; 3.1.3 Polyploidy; 3.1.4 Numbers of chromosomes; 3.1.5 Supernumerary chromosomes; 3.1.6 Chromosomal size; 3.1.7 Inversions; 3.1.8 Translocations; 3.1.9 Chromosomal variation and conservation</p> <p>3.2 Protein Electrophoresis3.2.1 Strengths and limitations of protein electrophoresis; 3.3 Genetic Variation within Natural Populations; 3.3.1 Data from natural populations; 3.4 Genetic Divergence Among Populations; Guest Box 3: E. M. Tuttle, Chromosomal polymorphism in the white-throated sparrow; CHAPTER 4: Genetic variation in natural populations: DNA; 4.1 Mitochondrial and Chloroplast Organelle DNA; 4.1.1 Restriction endonucleases and RFLPs; 4.1.2 Polymerase chain reaction; 4.2 Single-Copy Nuclear Loci; 4.2.1 Microsatellites; 4.2.2 PCR of protein-coding loci</p> <p>4.2.3 Single nucleotide polymorphisms4.2.4 Sex-linked markers; 4.3 Multiple Locus Techniques; 4.3.1 Minisatellites; 4.3.2 AFLPs and ISSRs; 4.4 Genomic Tools and Markers; 4.4.1 High-throughput sequencing; 4.4.2 Inferences from sequence data; 4.4.3 EST sequencing applications; 4.4.4 SNP discovery and genotyping by sequencing; 4.5 Transcriptomics; 4.6 Other 'Omics' and The Future; 4.6.1 Metagenomics; Guest Box 4: Louis Bernatchez Rapid evolutionary changes of gene expression in domesticated Atlantic salmon and its consequences for the conservation of wild populations</p> <p>PART II: Mechanisms of Evolutionary ChangeCHAPTER 5: Random mating populations: Hardy-Weinberg principle; 5.1 Hardy-Weinberg Principle; 5.2 Hardy-Weinberg Proportions; 5.3 Testing for Hardy-Weinberg Proportions; 5.3.1 Small sample sizes or many alleles; 5.3.2 Multiple simultaneous tests; 5.4 Estimation of Allele Frequencies; 5.4.1 Recessive alleles; 5.4.2 Null alleles; 5.5 Sex-Linked Loci; 5.5.1 Pseudoautosomal inheritance; 5.6 Estimation of Genetic Variation; 5.6.1 Heterozygosity; 5.6.2 Allelic richness; 5.6.3 Proportion of polymorphic loci</p> <p>Guest Box 5: Paul Sunnucks and Birgita D. Hansen, Null alleles and Bonferroni 'abuse': treasure your exceptions (and so get it right for Leadbeater's possum)</p>
Sommario/riassunto	Loss of biodiversity is among the greatest problems facing the world today. Conservation and the Genetics of Populations gives a

comprehensive overview of the essential background, concepts, and tools needed to understand how genetic information can be used to conserve species threatened with extinction, and to manage species of ecological or commercial importance. New molecular techniques, statistical methods, and computer programs, genetic principles, and methods are becoming increasingly useful in the conservation of biological diversity. Using a balance of data and theory, coupled w
