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Nota di contenuto	Intro -- Introduction and Overview: Single Nucleotide Polymorphisms, Human Variation, and a Coming Revolution in Biology and Medicine -- Introduction -- Overview of the Book -- Part I: An Overview of Human Genome Sequencing and How to Access Information About SNVs -- Part II: A Broad Survey of SNPs, Their Classification into Synonymous and Non-synonymous, and the Undesirable Consequences of Using the Term "Silent" for Synonymous Changes -- Part III: The Role of SNPs in Human Diseases -- Part IV: An Examination of the Mechanisms by Which Synonymous Mutations Affect Protein Levels or Protein Folding, Which Affect Human Physiology and Response to Therapy -- Part V: The Role of SNPs in Personalized Medicine and the Platform Technology of Codon Optimization -- Summary -- References -- Contents -- Part I: An Overview of Human Genome Sequencing and How to Access Information About SNVs -- Chapter 1: SNPs Classification and Terminology: dbSNP Reference SNP (rs) Gene and Consequence Annotation -- 1.1 Introduction -- 1.2 What Is dbSNP Used for? -- 1.3 dbSNP Molecular Consequences (AKA Function Class) -- 1.4 Computed Molecular vs. Observed Functional Consequences -- 1.5 Computing Molecular Consequences in dbSNP -- 1.6 Splicing Variants -- 1.7 Other Non-CDS Variants -- 1.8 Searching dbSNP by Variant Consequences -- References -- Part II: A Broad Survey of SNPs, Their Classification into Synonymous and Non-synonymous and the Undesirable Consequences