

Brief Contents

Chapter 1	The Genetic Code of Genes and Genomes	1
Chapter 2	Transmission Genetics: Heritage from Mendel	33
Chapter 3	The Chromosomal Basis of Heredity	69
Chapter 4	Gene Linkage and Genetic Mapping	109
Chapter 5	Human Chromosomes and Chromosome Behavior	147
Chapter 6	DNA Structure, Replication, and Manipulation	185
Chapter 7	The Genetics of Bacteria and Their Viruses	215
Chapter 8	The Molecular Genetics of Gene Expression	247
Chapter 9	Molecular Mechanisms of Gene Regulation	281
Chapter 10	Genomics, Proteomics, and Genetic Engineering	317
Chapter 11	The Genetic Control of Development	353
Chapter 12	Molecular Mechanisms of Mutation and DNA Repair	381
Chapter 13	Molecular Genetics of the Cell Cycle and Cancer	416
Chapter 14	Molecular Evolution and Population Genetics	443
Chapter 15	The Genetic Basis of Complex Traits	477