

Table of Contents (Overview)

Preface	V
Introduction	1
Fundamentals	17
Molecular Genetics	18
Prokaryotic Cells and Viruses	78
Eukaryotic Cells	98
Mitochondria	116
Formal Genetics	124
Chromosomes	162
Expression of Genes	194
Genetics and Medicine	219
Transmembrane Signals	220
Genes for Embryonic Development	236
Immune System	244
Growth Factors and Origin of Tumors	260
Oxygen and Electron Transport	278
Lysosomes and LDL Receptor	290
Protease Inhibitors and Blood Coagulation	302
Pharmacogenetics	308
Insulin and Diabetes Mellitus	312
Collagen	314
Cytoskeletal Proteins	318
Sex Determination and Differentiation	324
Further Examples from Medical Genetics	332
Karyotype/Phenotype Correlation	342
Genome Organization	349
References	371
Glossary	379
Index	398