## **Table of contents**

- **Preface** (p. ix)
- Editor (p. xiii)
- **Contributors** (p. xv)
- Abbreviations (p. xix)
- Chapter 1 Genome Analysis (p. 1)
- Chapter 1 Two Common DNA Analysis Tools (p. 55)
- Chapter 3 Phylogenetic Analysis (p. 81)
- Chapter 4 SNP and Haplotype Analyses (p. 107)
- Chapter 5 Gene Expression Profiling by Microarray (p. 131)
- Chapter 6 Gene Expression Profiling by SAGE (p. 189)
- Chapter 7 Regulation of Gene Expression (p. 219)
- Chapter 8 MicroRNoma Genomewide Profiling by Microarray (p. 251)
- **Chapter 9 RNAi** (p. 271)
- Chapter 10 Proteomic Data Analysis (p. 285)
- Chapter 11 Protein Sequence Analysis (p. 333)
- Chapter 12 Protein Function Analysis (p. 379)
- Chapter 13 Functional Annotation of Proteins in Murine Models (p. 425)
- Chapter 14 Application of Programming Languages in Biology (p. 449)
- Chapter 15 Web Site and Database Design (p. 505)
- Chapter 16 Microsoft Excel and Access (p. 545)
- Selected Web sites (p. 583)
- **Glossary** (p. 587)
- Index (p. 599)