Contents

Acknowledgments  page ix

Prolegomena: Genes, Science, and Science Fiction  1
1 Mendel and the Origins of the “Gene” Concept  11
2 The Genes of Classical Genetics  27
3 The Molecularization of Genes  45
4 So, What Are Genes?  67
5 “Genes for” (Almost) Everything  89
6 Are There “Genes for” Characters?  109
7 Are There “Genes for” Diseases?  130
8 So, What Do Genes Do?  154
9 Genes Are Implicated in the Development of Characters  171
10 Genes Account for Variation in Characters  191
11 Genomes Are More than the Sum of Genes  208
12 Limitations in the Study of Genomes  229

Concluding Remarks: How to Think and Talk about Genes?  251

Further Reading  261
References  265
Glossary  295
Index  305