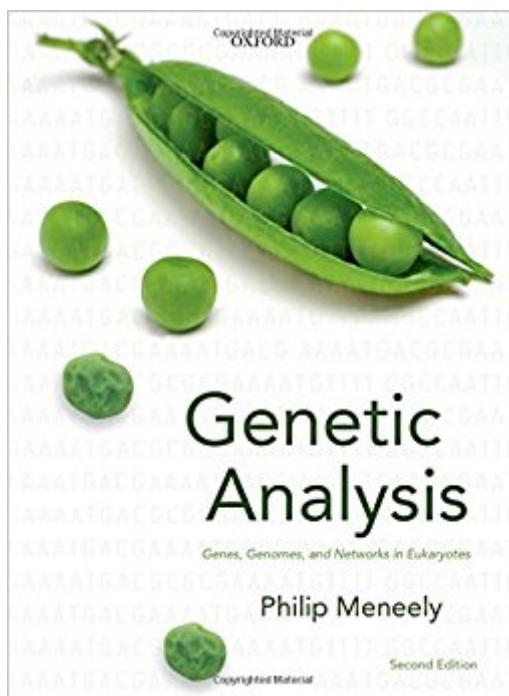


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# Genetic Analysis: Genes, Genomes, And Networks In Eukaryotes



## **Synopsis**

How do we know what role a particular gene has? How do some genes control the expression of others? How do genes interact to form gene networks? With its unique integration of genetics and molecular biology, *Genetic Analysis* explores these fascinating questions, detailing how our understanding of key genetic phenomena can be used to understand biological systems. Opening with a brief overview of key genetic principles, model organisms, and epigenetics, the book goes on to explore the use of gene mutations and the analysis of gene expression and activity. A discussion of the genetic structure of natural populations follows, before the interaction of genes during suppression and epistasis, how we study gene networks, and personalized genomics are considered. Drawing on the latest experimental tools, including microarrays, RNAi screens, and bioinformatics approaches, *Genetic Analysis* provides a state-of-the-art review of the field in a truly student-friendly manner. It uses extended case studies and text boxes to augment the narrative, taking the reader to the forefront of contemporary research with exceptional clarity. We are in an age where, despite knowing so much about biological systems, we are just beginning to realize how much more there is still to understand. *Genetic Analysis* is the ideal guide to harnessing the awesome power of molecular genetics to further our understanding of biology.

## **Book Information**

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## **Customer Reviews**

"An excellent example of a modern textbook, *Genetic Analysis* is a readable and stimulating introduction to this rapidly developing topic... [It] will earn its place on a biology or genetics student's

bookshelf." --The Biologist

Philip Meneely is Professor of Biology in the Department of Biology at Haverford College, PA, where he teaches genetics, molecular biology, and bioinformatics.

This was a required textbook for a class I took this past year. In terms of content, I thought that it was pretty good. I was taking a difficult class, and the explanations in the book greatly aided in my understanding of the material covered in class. The case studies included in each of the chapters were particularly useful when preparing for the exams. I did notice some mistakes, but my main complaint about this textbook is the index. It is the worst index I have ever seen in a textbook, and the classmates I talked to agreed with me. My professor would skip around between chapters during his lectures, and it was difficult to find the corresponding text in the book. I almost never found what I was looking for in the index which meant I spent a lot of time flipping back and forth through chapters trying to find things. Despite its flaws, I still think this is a pretty good textbook. I found the explanations easy to understand, and I don't think I would have done well in the class without them.

**Pros:** Overall, I think this text reveals a broad amount of information about the current state of genetic analysis. It logically brings the user through historically significant methods to the present state of the field involving new methodologies, some of which are assisted by advanced computerized tools and technologies. Within each chapter, there are relevant and informative "text boxes" and "case studies". They unify some of the material and present an extra intellectual challenge to reader.

**Cons:** There are lots of mistakes in figures. It needs proofreading. I believe author is colorblind. This is judged from his erroneous references to purples and browns and such that are characteristic of the genetic defect. This should give more reason to have his work proofread by someone else. Author is somewhat repetitive in figure descriptions and text. It often feels like you're reading a reworded version of what has been already said. This seems like an inefficient use of the reader's time. There sometimes seems to be "ambitious" use of analogies. It seems he's stretching the line between making something easier to remember and making conceptual matches with the actual subject.

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