



# Genetic Analysis: Genes, Genomes, and Networks in Eukaryotes

*Philip Meneely*

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## **Genetic Analysis: Genes, Genomes, and Networks in Eukaryotes** Philip Meneely

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.

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