



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

By Philip Meneely

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By Philip Meneely

How can we explore gene expression in time and space? 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?

Advanced Genetic Analysis probes fascinating questions such as these by asking "How can the principles of genetics be used as analytical tools to solve biological problems?"

With its unique integration of genetics and molecular biology, *Advanced Genetic Analysis* provides a broad survey of how our understanding of key genetic phenomena can be used to understand biological systems. Opening with a brief overview of key genetic principles and model organisms, the book goes on to explore the use of gene mutations and the analysis of gene expression and activity, before considering the interactions of genes during suppression and epistasis, and how we study gene networks.

Drawing on the latest experimental tools, including microarrays, RNAi, and bioinformatics approaches, *Advanced Genetic Analysis* provides a state-of-the-art review of the field, but in a truly student-friendly manner. It uses extended case studies and text boxes to augment the narrative, taking the reader right to the forefront of contemporary research without losing clarity of explanation and insight.

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. *Advanced Genetic Analysis* is the ideal guide to how we can use the awesome power of molecular genetics to further our understanding.

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Editorial Review

Review

'It is refreshing to see the focus move away from the detail of molecular mechanism towards understanding and scientific investigation' The Society for General Microbiology 'Philip Meneely makes a concerted effort to tie the key concepts derived from model systems to an understanding of human medical genetics, which works well and will be appreciated by students.' The Society for General Microbiology I enjoyed reading this chapter with its wonderful analogies...The author is gifted in writing in such a way that the reader will understand difficult concepts. Helena Kuivaniemi, Center for Molecular Medicine and Genetics, Wayne State University, USA

About the Author

Philip Meneely is Professor of Biology in the Department of Biology at Haverford College, PA, where he teaches genetics, molecular biology and bioinformatics alongside research exploring the genes involved in meiosis.

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