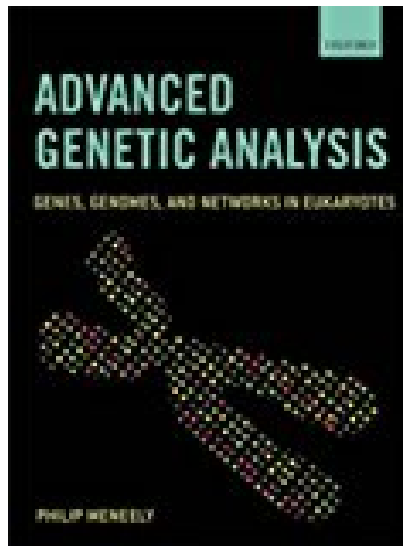


Advanced Genetic Analysis Genes Genomes and Networks in Eukaryotes



BOOK DETAILS

- Author : Philip Meneely
- Pages : 542 Pages
- Publisher : Oxford University Press
- Language : English
- ISBN : 0199219826

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BOOK 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 probes fascinating questions such as these, 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, 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 realise how much more there is still to understand. Genetic Analysis is the ideal guide to how we can use the awesome power of molecular genetics to further our understanding. Online Resource Centre: The Online Resource Centre to accompany Genetic Analysis features the following resources for teachers and students: For students: * Topical updates - key updates on topics or tools presented in the book, to keep you up-to-date with the latest developments in the field. * Additional case studies and text boxes to complement and add to those found in the book. * Practice problems, to test the readers knowledge of the concepts presented, and help to master them. For registered adopters of the book: * Figures from the book in electronic format, ready to download. * Journal clubs - suggested papers and discussion questions linked to topics covered in the book.

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