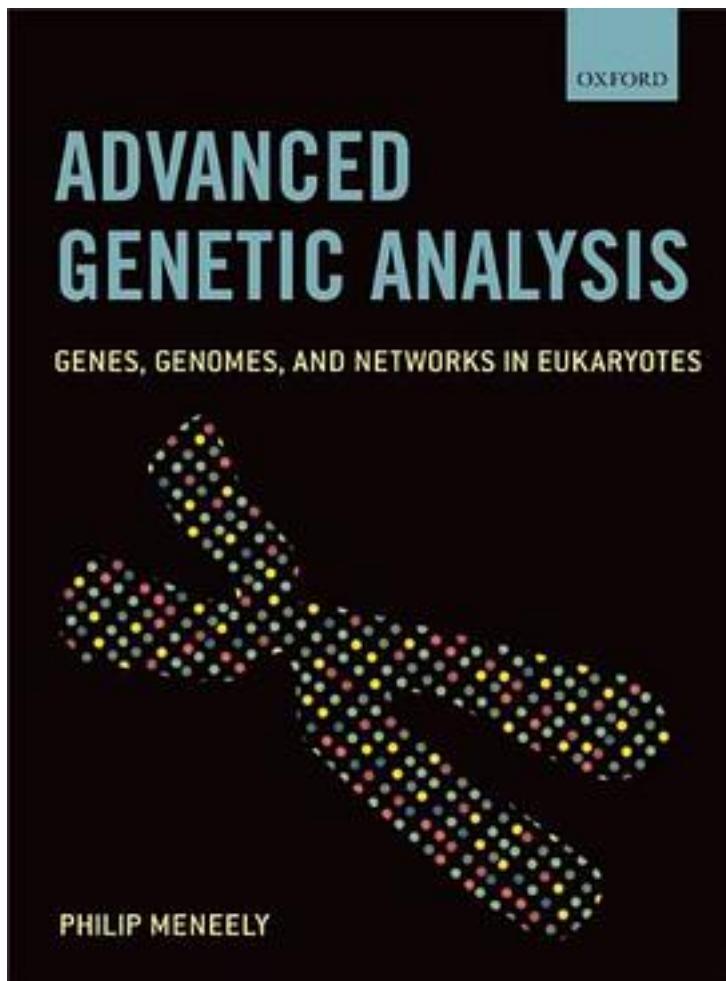


# Advanced Genetic Analysis



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出版者:

出版时间: 2009-3

装帧:

isbn: 9780199219827

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 interaction 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 realise 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. Online Resource Centre The Online Resource Centre to accompany Advanced Genetic Analysis features the following resources for instructors and students. For instructors: Figures from the book in electronic format, ready to download. Journal club: suggested papers and discussion questions linked to topics covered in the book. For students: Hyperlinked bibliography, giving quicker access to literature related to the text. Guided tours of key websites, with associated tutorials/activities. Topical updates: key updates on topics or tools presented in the book, to keep you up-to-date with latest developments in the field.

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