

FROM GENES TO GENOMES

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CONCEPTS AND APPLICATIONS OF DNA TECHNOLOGY

THIRD EDITION

From Genes to Genomes provides an introduction to the concepts and applications of this rapidly-moving and fascinating field. As with previous editions, the third combines accessibility with coverage of the latest developments, including the impact of next generation sequencing. The text maintains its excellent clarity of presentation, explaining the key ideas that underlie the most important techniques, placing them in the context of how they are commonly used.

The early chapters deal with genetic analysis and manipulation at the level of individual genes, and the book then moves on to dealing with genome sequencing and genome-wide analysis of gene expression, and the comparison of genome sequences. It concludes with a chapter on transgenics, directed at the whole organism, including an introduction to transgenic animals and plants.

- Major revision of a concise, well-written introduction to genome sequencing technologies.
- Excellent balance between clarity of coverage and level of detail.
- Increased coverage of whole-genome sequencing technologies and enhanced treatment of bioinformatics.
- Includes clear, two-colour diagrams throughout.

The latest edition of this concise, clearly written textbook will prove invaluable to those studying intermediate molecular genetics within the biological and biomedical sciences as well as researchers and teachers needing to update their knowledge of this fast moving field.

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