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Professor Christine Rushlow, Department of Biology, New York University, USA

Genetic Analysis applies the combined power of molecular biology, genetics, and genomics to explore how the principles of genetics can be used as analytical tools to solve biological problems.

- Uses established principles of genetics as methods to analyze larger problems in biology.
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- A new chapter, *Genomes, Chromosomes, and Epigenetics*, places the genome into the context of chromosome structure, with discussion of epigenetics and ENCODE.
- Four further new chapters look at genome-wide association studies, complex traits, the genetic structure of natural populations, and the relationship between genotype and phenotype in the context of personal traits.
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- Practice problems, to test your knowledge of the concepts presented and help you master them.

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