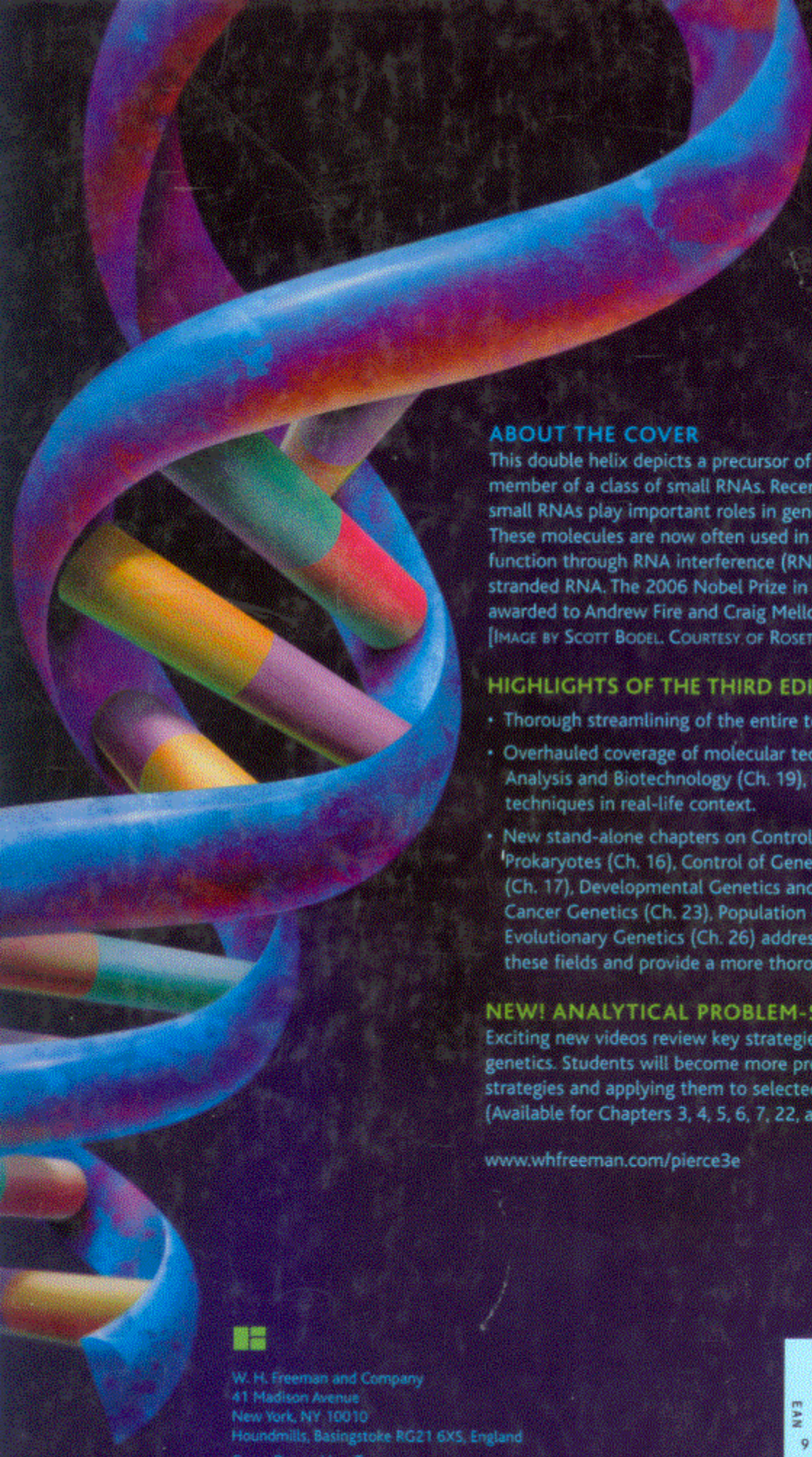




ABOUT THE COVER

This double helix depicts a precursor of microRNA (miRNA), a member of a class of small RNAs. Recent research indicates that such small RNAs play important roles in gene regulation and development. These molecules are now often used in the laboratory to explore gene function through RNA interference (RNAi)—gene silencing by double-stranded RNA. The 2006 Nobel Prize in Physiology or Medicine was awarded to Andrew Fire and Craig Mello for their discovery of RNAi. [IMAGE BY SCOTT BODEL, COURTESY OF ROSETTA GENOMICS]

HIGHLIGHTS OF THE THIRD EDITION INCLUDE:

- Thorough streamlining of the entire text to focus on core concepts.
- Overhauled coverage of molecular techniques in Molecular Genetic Analysis and Biotechnology (Ch. 19), using case studies to place techniques in real-life context.
- New stand-alone chapters on Control of Gene Expression in Prokaryotes (Ch. 16), Control of Gene Expression in Eukaryotes (Ch. 17), Developmental Genetics and Immunogenetics (Ch. 22), Cancer Genetics (Ch. 23), Population Genetics (Ch. 25), and Evolutionary Genetics (Ch. 26) address new developments in these fields and provide a more thorough treatment of key topics.

NEW! ANALYTICAL PROBLEM-SOLVING VIDEOS

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W. H. Freeman and Company
41 Madison Avenue
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