

LEWIN'S ESSENTIAL GENES

SECOND
EDITION

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Completely revised and updated with the latest findings in the field, the second edition of *Lewin's Essential GENES* provides students with a fundamental background in molecular biology and molecular genetics. An exceptional new pedagogy enhances student learning and helps readers understand and retain key material like never before. New *Concept and Reasoning Checks* at the end of each chapter section, *End of Chapter Questions* and *Further Readings* sections, and several categories of special topics boxes expand and reinforce important concepts. The reorganization of topics allows students to focus more sharply on the key material at hand and improves the natural flow of course material. New end-of-chapter questions review major points and allow students to test themselves on important course material.

KEY FEATURES OF THE SECOND EDITION:

- **New Special Topics Boxes** provide a balanced approach and serve to promote greater understanding of key material. These boxes fall into four categories:
 - *Essential Ideas* boxes reinforce and clearly explain concepts critical to the chapter topic.
 - *Medical Applications* boxes provide clear links between basic molecular principles and human health.
 - *Historical Perspectives* boxes supply the background information or experimental paths that led to our current knowledge.
 - *Methods and Techniques* boxes describe how powerful methods in molecular biology are performed.
- **Concept and Reasoning Checks** consist of one or two questions at the end of each chapter section that ask students to pause and assess their understanding of the material they have just read. These questions require critical thinking or integration of section topics.
- **Key Concepts** comprise bulleted lists of important points that follow each chapter section.
- **Further Readings** at the end of every chapter direct students to current review articles and seminal research papers, providing further sources of information to reinforce and elaborate on chapter material.
- The text includes significantly expanded and updated sections on **chromatin remodeling, epigenetics, the RNA world, and RNAi.**



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