

Fifth Edition

Essential Genetics

A Genomics Perspective

Daniel L. Hartl

Updated to reflect the latest discoveries in the field, the fifth edition of Dr. Hartl's classic text provides an accessible, student-friendly introduction to contemporary genetics. Designed for the shorter, less comprehensive introductory course, *Essential Genetics: A Genomics Perspective, Fifth Edition*, includes carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation. New and updated sections on genetic analysis, molecular genetics, probability in genetics, and pathogenicity islands ensure that students are kept up to date on current key topics. This text also helps students understand the development and progression of genetics as a field of study within a societal and historical context. New and expanded end-of-chapter material allows for a mastery of key genetics concepts and is ideal for homework assignments and in-class discussion.

New and Key Features of the Fifth Edition

- New Areas of Coverage:
 - Concepts of genetic analysis and mutants
 - Probability in genetic analysis in a new section
 - A new section on genetic variation
 - New information on molecular genetics
 - Current information on pathogenicity islands
- Many new end-of-chapter problems and worked-out exercises.
- Includes many new and updated illustrations and tables.
- A companion website, GeNETics on the Web, <http://biology.jbpub.com/hartl/essentialgenetics>, includes numerous study tools and learning resources such as animated flashcards, crosswords, and practice quizzes.
- An electronic Student Study Guide and Solutions Manual is available, containing chapter summaries, key terms, and extra study questions, as well as worked solutions for all Concepts in Action problems.
- The Instructor's Media CD-ROM includes a PowerPoint® Image Bank and PowerPoint Lecture Slides. An online Test Bank is also available for use in most course management systems.



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