

EIGHTH EDITION

GENETICS

ANALYSIS OF GENES AND GENOMES

Thoroughly revised and updated with the latest data from this ever-changing field, the eighth edition of *Genetics: Analysis of Genes and Genomes* provides a clear, balanced, and comprehensive introduction to genetics and genomics at the college level. Expanding upon the key elements that have made this text a success, Dr. Hartl has included updates throughout, as well as a new chapter dedicated to human genetic evolution. He continues to treat transmission genetics, molecular genetics, and evolutionary genetics as fully integrated subjects and provides students with an unprecedented understanding of the basic process of gene transmission, mutation, expression, and regulation. The beginning of each chapter includes a new section highlighting scientific competencies, while end-of-chapter Guide to Problem Solving sections demonstrate the concepts needed to solve problems efficiently and understand the reasoning behind the correct answer.

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New and Key Features of the Eighth Edition:

- A new Chapter 19, Human Evolutionary Genetics.
- Learning Objectives & Scientific Competencies added to the beginning of each chapter.
- New problem sets in the accompanying ancillary material.
- Every new copy includes a student access code to the companion website with a variety of study aids and learning tools.
- Updated throughout with the latest data in this fast-paced field including new sections on Telomere Length Limits and Number of Cell Doublings; CNV with Reciprocal Risks of Autism and Schizophrenia; Translation Proofreading and Premature Termination; Stochastic Noise in Gene Expression; Stochastic Noise in *lac* Expression; and Long Noncoding RNA (lncRNA).

