

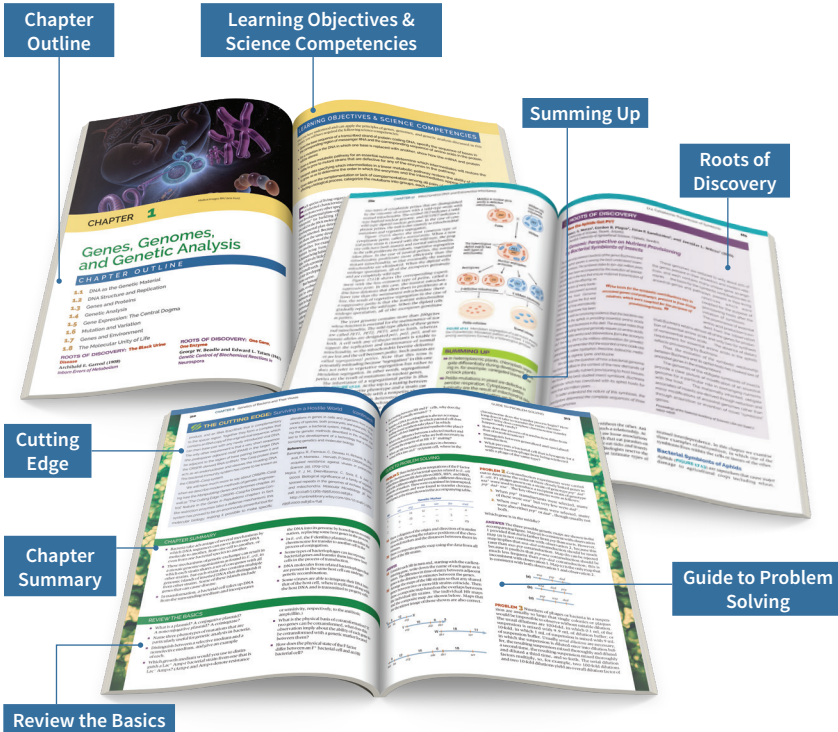
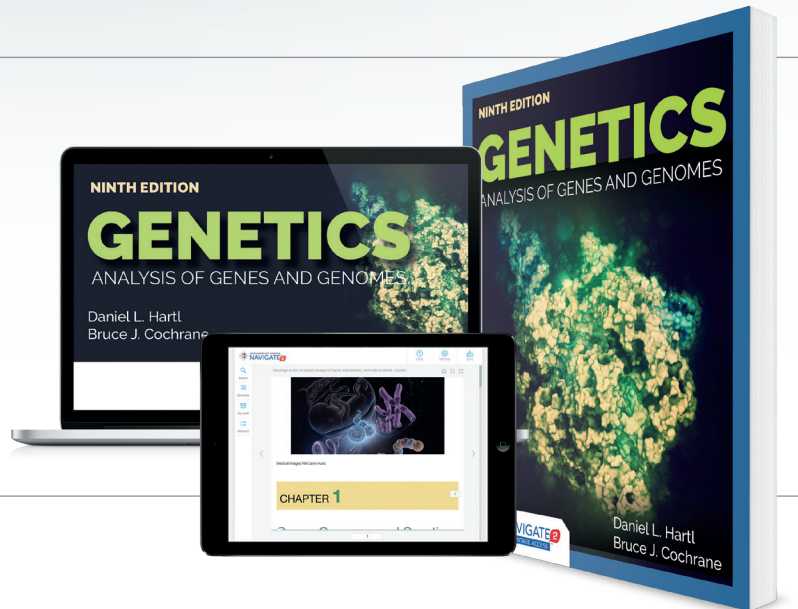
Why You Should Adopt

Genetics

Analysis of Genes and Genomes
NINTH EDITION

Includes Navigate 2 Advantage Access

- ✔ **Option 1:** Hardcover with Navigate 2 Advantage Access
ISBN-13: 978-1-284-12293-0 • 830 pages • © 2019
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50% off the list price of the printed textbook



Where Modern Meets Classical

Genetics: Analysis of Genes and Genomes is a resource uniquely suited for learning and applying genetics to our world. Its DNA first presentation frames the discussion of genetics in modern terms, which provides the student the context to then understand its Mendelian history. A new unit structure with self-contained chapters offers instructors the flexibility to fit any course design, whether it be Mendel-early, Chromosome-early, or a Genome-first approach.

NEW & Popular Features:

- **NEW sections** discuss Genome-Wide Association Scans, misconceptions about heritability, Illumina sequencing, Cancer Genomics, Wolbachia in arthropod species, molecular signals of selection, Regulatory RNAs in Development, and more
- **NEW Cutting-Edge boxes** highlight recent research and developments in the field, such as the use of CRISPR-Cas9 for gene repair in muscular dystrophy
- **Roots of Discovery** highlight seminal research papers in genetics
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- **NEW stunning interior design** featuring over 225 NEW and revised illustrations with descriptions that clarify difficult concepts

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Course Materials

Learning Tools

- Interactive eBook
- Animations
- Web Links
- Student Study Guide
- Flashcards
- Learning Objectives
- Lectures Slides in PowerPoint format
- Image Bank in PowerPoint format

Teaching Tools (available with Course ID)

- Lectures Slides in PowerPoint format
- Image Bank in PowerPoint format
- Image Bank of selected unlabeled figures in PowerPoint format
- Instructor's Manual including Chapter Summaries, Teaching Tips, Suggested Activities, and more
- Answer Keys for select End-of-Chapter questions
- Transition Guide to show changes between editions
- Pre-Populated Quizzes and Examinations with Automatic Grading
- Dashboard with actionable data
- Hassle-free Gradebook
- Course Management Tools

Navigate 2 is fully hosted by Jones & Bartlett Learning, is mobile-ready, and is compatible with Blackboard and other third party learning management systems. A Navigate Implementation Specialist will be your personal resource to answer questions, set up your course, and maintain your customizations from semester to semester.

eBook Resources

Chapter	Title	# of Web Links
UNIT I: Defining and Working with GENES		
1	Genes, Genomes and Genetic Analysis	9
2	DNA Structure and Genetic Variation	11
UNIT II: Transmission Genetics		
3	Transmission Genetics: The Principle of Segregation	13
4	The Chromosomal Basis of Inheritance	10
5	Genetic Linkage and Chromosome Mapping	13
6	Human Karyotypes and Chromosome Behavior	12
7	The Genetics of Complex Characters	10
8	Genetics of the Bacteria and their Viruses	7
UNIT III: Organization and Replication of Chromosomes and DNA		
9	Molecular Organization of Chromosomes and Genomes	7
10	DNA Replication and Sequencing	7
11	Mutation, Repair and Recombination	7
UNIT IV: Gene Expression		
12	Molecular Biology of Gene Expression	8
13	Molecular Mechanisms of Gene Regulation	8
14	Manipulating Genes and Genomes	7
15	Genetic Control of Development	7
16	The Genetics of Cancer	8
UNIT V: Variation		
17	Mitochondrial DNA and Extranuclear Inheritance	7
18	Genetics of Populations	8
19	Molecular and Human Evolutionary Genetics	9

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