

BIOLOGICAL SCIENCES

ACADEMIC CATALOG 2018



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Human Biology

NINTH EDITION

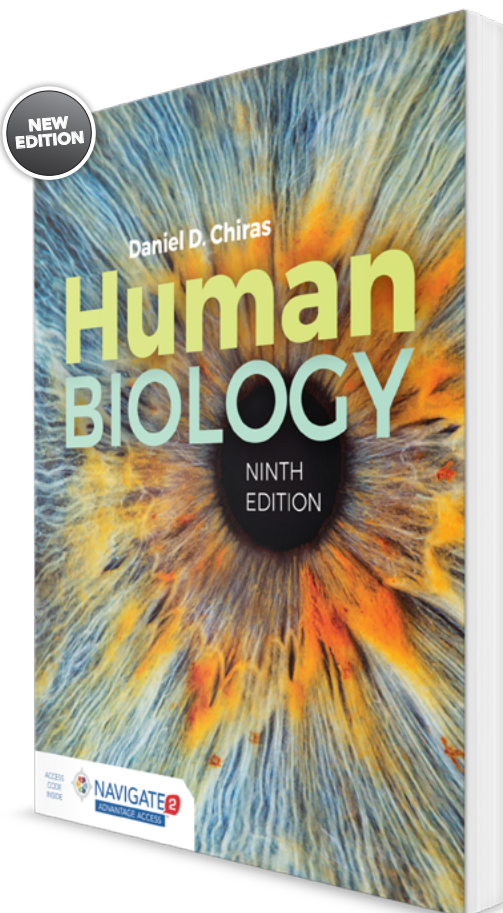
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Daniel D. Chiras, PhD, Director, The Evergreen Institute

Dan Chiras once again offers a refreshing and student-friendly introduction to the structure, function, health, and homeostasis of the human body in a modernized ninth edition of *Human Biology*. This acclaimed text features a new chapter dedicated to the integumentary system as well as new sections covering evolution, injuries and diseases of the muscles, the pineal gland, and more. New information on GMOs, immunotherapy, vertigo, brain diseases, new cancer treatments, and more thought-provoking discussions encourage students to think critically about timely and relevant information that affects their lives.

KEY FEATURES:

- **NEW** chapter opening learning objectives guide students' focus
- **NEW** chapter on the integumentary system added based on popular demand
- **NEW** stunning interior design with over 250 NEW or REVISED illustrations, photos, and tables make difficult concepts easier to grasp
- **NEW** discussions on how evolution works, domains and kingdoms, cool laser fat removal, bone formation and elongation, hearing loss, sciatica, hernias and hernia repair, hormone action at the cellular level, and many more!
- Separate chapters covering the skeletal system and the muscular system allow for more important information, including muscle groups and diseases of muscle and bone
- **A Closer Look** feature dives deep into three contemporary topics: AIDS, Sexually Transmitted Diseases, and Understanding Cancer
- **Three bonus chapters** covering *Infectious Disease*, *Evolution*, and *Ecology* are available online within the eBook, offering instructors the flexibility to include these topics in their course



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Human Body Systems

Structure, Function, and Environment

SECOND EDITION

Daniel D. Chiras, PhD, Director, The Evergreen Institute

ISBN: 978-1-4496-4793-3 • Paperback • 176 pages • © 2013

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Case Studies for Understanding the Human Body

SECOND EDITION

Stanton Braude, Deena Goran, Alexander Miceli

ISBN: 978-1-4496-0499-8 • Paperback • 196 pages • © 2012

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Understanding Viruses

THIRD EDITION

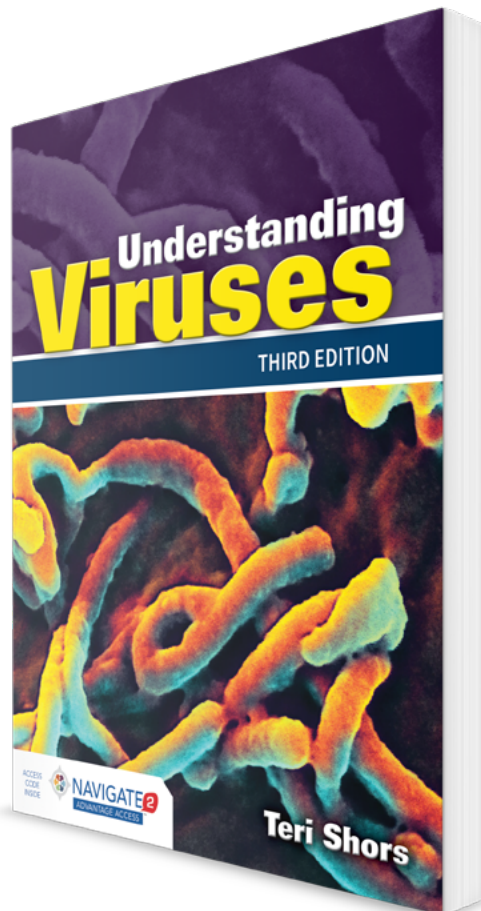
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Teri Shors, PhD, University of Wisconsin, Oshkosh

Understanding Viruses continues to set the standard for the fundamentals of virology. This classic textbook combines molecular, clinical, and historical aspects of human viral diseases in a new stunning interior design featuring high quality art that will engage readers. Preparing students for their careers, the *Third Edition* greatly expands on molecular virology and virus families. This practical text also includes the latest information on influenza, global epidemiology statistics, and the recent outbreaks of Zika and Ebola viruses to keep students on the forefront of cutting-edge virology information. Numerous case studies and feature boxes illuminate fascinating research and historical cases stimulate student interest, making the best-selling *Understanding Viruses* the clear choice in virology.

KEY FEATURES

- **NEW** Virology Animations on antiviral drug mechanisms educate and entertain!
- **NEW** section on virus discovery in the 21st Century
- **NEW** case studies, including an in-depth case study of the Ebola virus outbreak
- **NEW** content on the latest outbreaks, including Zika virus, MERS, Hantavirus in Yosemite National Park, and Measles cases in the U.S.
- *Virus Files* features connect a topic to current research or to techniques used by virologists,
- *Refresher Boxes* provide foundational information on biological concepts that students encountered in introductory biology courses to help them fully comprehend more complex virology concepts



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AIDS

Science and Society

SEVENTH EDITION

Hung Y. Fan, Ross F. Conner, and Luis P. Villarreal
All of University of California, Irvine

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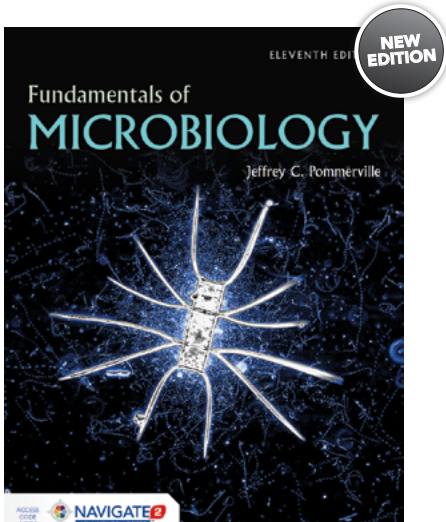
AIDS

The Biological Basis

SIXTH EDITION

Benjamin S. Weeks, PhD, Adelphi University
Teri Shors, PhD, University of Wisconsin, Oshkosh

ISBN: 978-1-4496-1488-1 • Paperback • 350 pages • © 2014
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Fundamentals of Microbiology

ELEVENTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Jeffrey C. Pommerville, PhD, Glendale Community College

Now with a new modern and intuitive design, a deeper focus on career application, and exciting new features, the *Eleventh Edition* has raised the bar for introductory microbiology textbooks. Features such as *Investigating the Microbial World*, *MicroInquiry*, and *Chapter Challenges* are student-friendly resources designed to teach concepts and encourage practical application. Instructors will be pleased to find the organizational framework of the text reflects the *Curriculum Guidelines for Undergraduate Microbiology* as recommended by the American Society for Microbiology and also addresses the AAAS “Vision and Change” recommendations.

KEY FEATURES

- **NEW** stunning interior design with over 575 NEW and revised illustrations that unlock complex topics and biological processes
- **NEW** clinical case studies throughout for application to nursing and health sciences
- Includes the latest on Zika and Ebola viruses
- **NEW** information on the human microbiome
- Over 100 minutes of **NEW Laboratory videos** available

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Laboratory Fundamentals of Microbiology

ELEVENTH EDITION

INCLUDES ACCESS TO FUNDAMENTALS OF MICROBIOLOGY LABORATORY VIDEOS

Jeffrey C. Pommerville, PhD, Glendale Community College

The eleventh edition of *Laboratory Fundamentals of Microbiology* represents a lab manual revolution built for today's learners, focusing on the student's experience in the lab. Access to over 100 minutes of 34 instructor-chosen, high-quality videos of actual students performing the most common lab skills, procedures, and techniques provides a seamless experience for the user. Within the manual, Sections and Exercises open with a list of relevant videos, and icons identify where students should refer to them to best prepare for each exercise.

KEY FEATURES

- Every new lab manual is packaged with access to **110 minutes of NEW videos** that teach common lab skills and are tied to the labs in the manual. Students clearly see how to work safely in the lab setting, how to swab cultures, how to perform biochemical tests, and many more valuable lab skills.
- **NEW** - all labs have been expanded and reorganized to fit logically into new sections, with 99 exercises in total
- **NEW** introductions for each section
- **NEW** full-color photos and micrograph examples
- **NEW** exercises and assessments

Paperback with Access to videos

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The Pommerville Microbiology Course Solution

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BEST VALUE

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**Fundamentals of Microbiology,
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Microbiology, Eleventh Edition**

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This all-inclusive bundle contains the textbook and the laboratory manual with access to over 110 minutes of NEW videos that teach common lab skills. Get it all for only \$25 more than the printed textbook alone.

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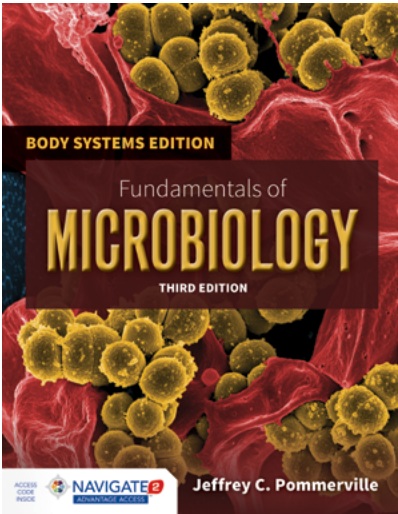
**Fundamentals of Microbiology
Laboratory Videos**

This bundle includes the textbook and individual access to the *Fundamentals of Microbiology Laboratory Videos* for only \$25 more than the printed textbook alone.

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Visit go.jblearning.com/Pommerville to learn more about these learning and teaching tools, view a sample video, and see sample exercises from the lab manual.

Source Code: FOMWinInsert



Fundamentals of Microbiology

BODY SYSTEMS EDITION
THIRD EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Jeffrey C. Pommerville, PhD, Glendale
Community College

This *Third Edition* contains new pedagogical elements and an established learning design format that improves comprehension and makes learning more enjoyable. It takes a global perspective on microbiology and infectious disease and supports students in self-evaluation and concept absorption. Furthermore, it includes real-life examples to help students understand the significance of a concept and its application in today's world.

KEY FEATURES

- Updated to reflect the *Curriculum Guidelines for Undergraduate Microbiology* as recommended by the American Society for Microbiology
- **NEW Microbiology Animations** educate and entertain!
- **NEW Investigating the Microbial World** boxes offer actual experiments that require students to apply the process of science, use quantitative reasoning, and evaluate experimental results
- **NEW and REVISED Clinical Cases** (formerly Textbook Cases) are embedded in all the chapters to help students understand pathogens through presentation of contemporary human disease scenarios

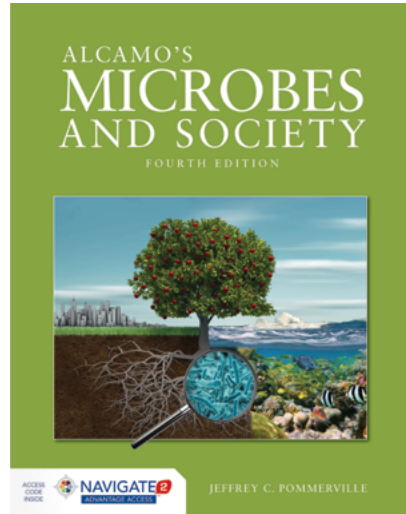
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Alcamo's Microbes and Society

FOURTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

Jeffrey C. Pommerville, PhD, Glendale
Community College

Alcamo's Microbes and Society is the ideal text for non-majors taking a foundational course in the life sciences. The *Fourth Edition* retains the user-friendly readability of previous editions while incorporating original features and material. It explores the function of microbes in ecological and environmental systems, as well as key current issues such as antibiotic resistance, the importance of vaccines, and emerging microbial diseases.

KEY FEATURES

- Includes information on current applications of genetic engineering and biotechnology
- Presents the latest information on microbes in agriculture and the environment, the human microbiome, viruses, and all microbial groups
- New discussions on bacterial resistance to antibiotics
- Learning features enhance clarity and retention, including *A Closer Look*, *Looking Ahead* boxes, and end-of chapter *Questions to Consider*

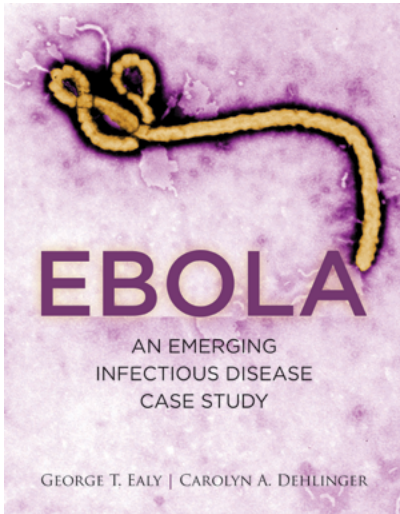
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Ebola

An Emerging Infectious Disease Case Study

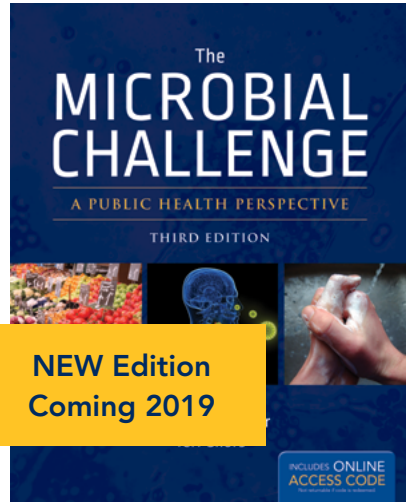
George Ealy, MD, PhD, (late of) Keiser University
Carolyn A. Dehlinger, MAS, MS, Keiser University

This timely resource provides a firm foundation for academic discussions within microbiology, nursing, health science, and public health programs. Informative and unique, it presents Ebola as a case example that serves as the backbone for a wider discussion about infectious diseases. The history, biology, biotechnology, and epidemiology of the Ebola virus is presented, as well as the differing responses from international aid agencies, such as the Centers for Disease Control and Prevention (CDC) and the World Health Organization (WHO) in identifying and containing the recent outbreak.

ISBN: 978-1-284-08778-9

Paperback • 148 pages • © 2016

<http://go.jblearning.com/EbolaBook>



The Microbial Challenge

A Public Health Perspective

THIRD EDITION

Robert I. Krasner, PhD, MPH, Professor Emeritus, (late of) Providence College
Teri Shors, PhD, University of Wisconsin, Oshkosh

The extensively revised and updated *Third Edition* focuses on human-microbe interactions and considers bacterial, viral, prion, protozoan, fungal and helminthic (worm) diseases. It includes new and contemporary information on vaccinations, antibiotic resistant microbes, practical disinfection information, virotherapy and emerging diseases. New feature boxes showcase items of human interest such as big and bizarre viruses, probiotics, rats, and synthetic biology.

ISBN: 978-1-4496-7375-8

Paperback • 550 pages • © 2014

<http://go.jblearning.com/MicroChallenge>

Guide to Infectious Diseases by Body System

SECOND EDITION

Jeffrey C. Pommerville, PhD, Glendale Community College

ISBN: 978-1-4496-0591-9 • Paperback • 33 pages • © 2012

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Encounters in Microbiology

Jeffrey C. Pommerville, PhD, Glendale Community College

Volume 1, Second Edition

ISBN: 978-0-7637-5798-4 • Paperback • 119 pages • © 2009

Volume 2

ISBN: 978-0-7637-5799-1 • Paperback • 91 pages • © 2009

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Principles of Cell Biology

SECOND EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

George Plopper, PhD, Senior Lead Associate/Regulatory Scientist, Booz Allen Hamilton (formerly of Rensselaer Polytechnic Institute)

Principles of Cell Biology, Second Edition provides students with the formula for understanding the fundamental concepts of cell biology. This practical text identifies 10 specific principles of cell biology and devotes a separate chapter to illustrate each. The result is a shift away from the traditional focus on technical details and towards a more integrative view of cellular activity. An informal, narrative writing style makes even the most complex concepts accessible to students new to the scientific field.

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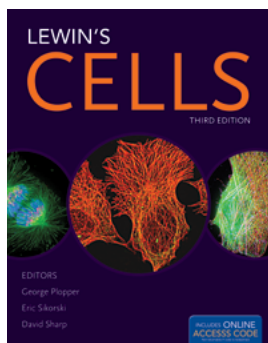
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Lewin's CELLS

THIRD EDITION

George Plopper, PhD, Senior Lead Associate/Regulatory Scientist, Booz Allen Hamilton (formerly of Rensselaer Polytechnic Institute)

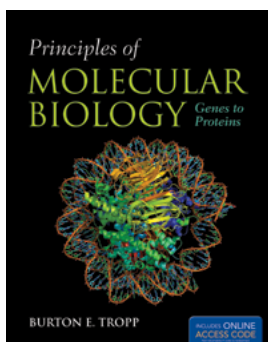
David Sharp, PhD, Albert Einstein School of Medicine

Erik Sikorski, PhD, University of Tampa

The ideal text for advanced undergraduate and graduate cell biology courses, the third edition of *Lewin's CELLS* continues to offer current coverage of the structure, organization, growth, regulation, movements, and interaction of cells, with an emphasis on eukaryotic cells. The *Third Edition* includes expanded chapters on Nuclear Structure and Transport, Chromatin and Chromosomes, Apoptosis, Principles of Cell Signaling, The Extracellular Matrix and Cell Adhesion, Plant Cell Biology, and more.

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Principles of Molecular Biology

Burton E. Tropp, PhD, Queens College/CUNY

Written for the more concise course, this text is modeled after Burton Tropp's successful *Molecular Biology: Genes to Proteins* and is appropriate for the sophomore level course. After an introduction to molecular biology, an overview of protein structure and function is presented, and from there the text covers the various roles of technology in elucidating the central concepts of molecular biology, from both a historical and contemporary perspective

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Lewin's GENES XII

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Jocelyn E. Krebs, PhD, University of Alaska, Anchorage

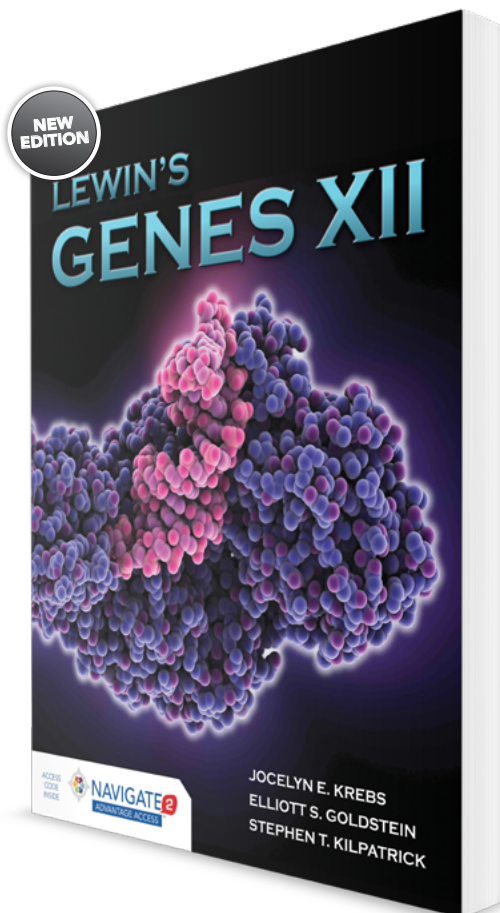
Elliott S. Goldstein, PhD, Arizona State University

Stephen T. Kilpatrick, PhD, University of Pittsburgh at Johnstown

Long considered the quintessential molecular biology textbook, for decades *Lewin's GENES* has provided the most modern presentation to this transformative and dynamic science. Now in its twelfth edition, this classic text continues to lead with new information and cutting-edge developments, covering gene structure, sequencing, organization, and expression. Leading scientists provide revisions and updates in their respective areas of study offering readers current research and relevant information on the rapidly changing subjects in molecular biology.

KEY FEATURES

- Praised for its organization and comprehensiveness, *Lewin's GENES XII* covers nearly every aspect of molecular biology and genetics
- **NEW** - contains expanded coverage of epigenetics and additional research studies and data
- Revised art program offers a stunning interior design with many new figures, some reflecting new developments in the field, particularly in the topics of chromatin structure and function, epigenetics, and regulation by noncoding and microRNAs in eukaryotes
- The accompanying Test Bank has been updated and expanded by author Stephen Kilpatrick to include over 1,000 questions, in addition to the 750 questions and activities that are included in the Navigate 2 study and assessment tools.
- Hand-selected Web Links to relevant websites are available in a list format or as direct links in the Navigate 2 interactive eBook.



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Lewin's Essential GENES

THIRD EDITION

Jocelyn E. Krebs, PhD, University of Alaska, Anchorage

Elliott S. Goldstein, PhD, Arizona State University

Stephen T. Kilpatrick, PhD, University of Pittsburgh at Johnstown

ISBN: 978-1-4496-4479-6 • Paperback • 850 pages • © 2013

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Mammalogy

SIXTH EDITION

Terry A. Vaughan, PhD, Professor Emeritus, Northern Arizona University

James M. Ryan, PhD, Hobart and William Smith Colleges

Nicholas J. Czaplewski, PhD, University of Oklahoma

ISBN: 978-1-284-03209-3 • Paperback • 756 pages • © 2015

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Genetics

Analysis of Genes and Genomes

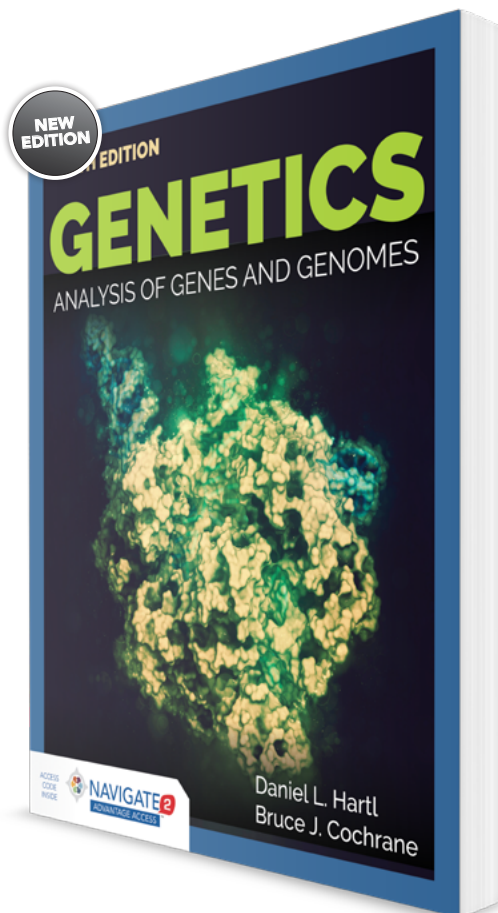
NINTH EDITION

Daniel L. Hartl, PhD, Harvard University
Bruce J. Cochrane, PhD, Miami University,
 Oxford, Ohio

Genetics 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 user the context to then understand its Mendelian history. *Genetics* 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. A new unit structure with self-contained chapters provides the flexibility to fit any course design, whether it be Mendel-early, Chromosome-early, or a Genome-first approach.

KEY FEATURES

- **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
- **Science Competencies** help students identify key concepts and use them at a variety of learning levels including comprehension, application, analysis, and synthesis
- **NEW** stunning interior design featuring over 225 NEW and revised illustrations with descriptions that clarify difficult concepts



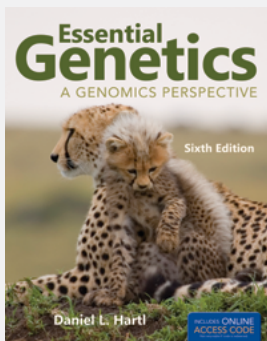
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Essential Genetics

A Genomics Perspective

SIXTH EDITION

Daniel L. Hartl, PhD, Harvard University

Designed for the shorter, less comprehensive course, the *Sixth Edition* presents carefully chosen topics that provide a solid foundation to the basic understanding of gene mutation, expression, and regulation. It includes new learning objectives within each chapter to help students identify what they should know as a result of their studying and highlights the skills they should acquire through various practice problems

ISBN: 978-1-4496-8688-8 • Paperback • 574 pages • © 2014

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**NEW Edition
 Coming 2019**

Botany

An Introduction to Plant Biology

SIXTH EDITION

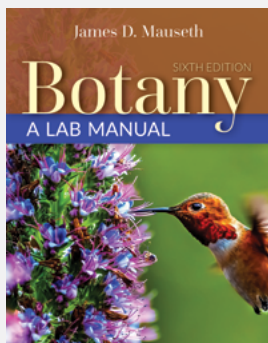
INCLUDES NAVIGATE 2 ADVANTAGE ACCESS

James D. Mauseth, PhD, University of Texas, Austin

Botany continues to set the standard for the fundamentals of plant science in a new sixth edition. No botany text better connects structure to function and does so with higher quality art and imagery. The essentials to a foundational understanding of plant science are all there, including structure, genetics and evolution, physiology and development, and ecology. Now in a modernized sixth edition, the text continues to lead with the latest material on molecular biology, plant biotechnology, and the most recent coverage of taxonomy and phylogeny of plants to keep students on the forefront of cutting-edge botanical research. *Botany, Sixth Edition* is the clear choice for students digging into this exciting science.

KEY FEATURES

- **NEW** chapter provides foundational information on botany, including climate ecology, adaptation, genes and genetics, and phylogeny of plants
- Two **NEW** chapters offer up-to-date information on ethnobotany and community ecology
- **NEW** *Did You Know?* feature illuminates the direct application of plants to our lives and stimulates curiosity of the fascinating botanical world around us
- **NEW** *At the Next Level* feature provides opportunities to expand one's understanding of botany
- Over 550 **NEW** and **REVISED** figures including **NEW** photographs and thoroughly revised, detailed illustrations



Botany

A Lab Manual

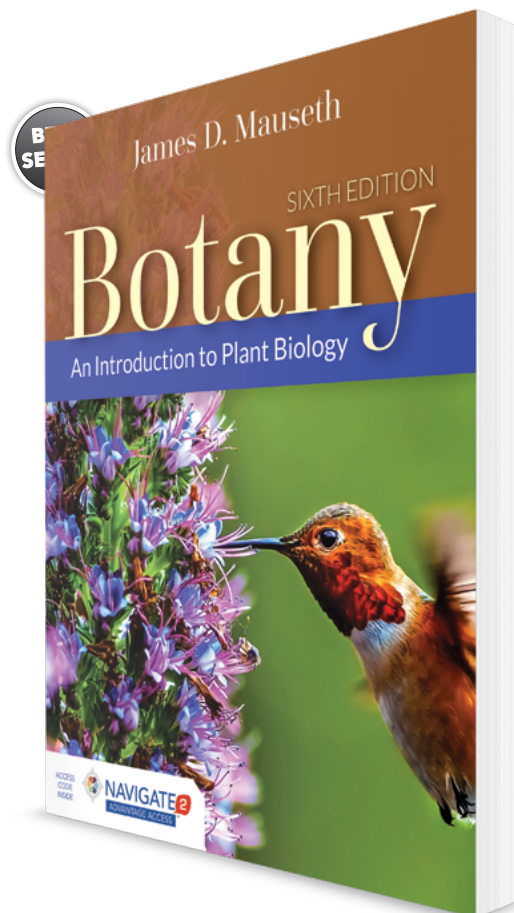
SECOND EDITION

James D. Mauseth, PhD, University of Texas, Austin

Botany: A Lab Manual, Sixth Edition is the perfect companion to any botany course. Packed with hands-on activities, it engages students and broadens their understanding of plant biology. Now in full color and a convenient lay-flat format, it provides detailed examination of plant structure, plant groups, genetics, classification, and more. Featuring additional case studies and image labeling activities, *Botany: A Lab Manual* is the clear choice for students digging into this exciting science.

ISBN: 978-1-284-11184-2 • Spiral/Paperback • 260 pages • © 2017

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Introduction to the Biology of Marine Life

ELEVENTH EDITION

INCLUDES NAVIGATE 2 ADVANTAGE ACCESS
John Morrissey, PhD, Sweet Briar College

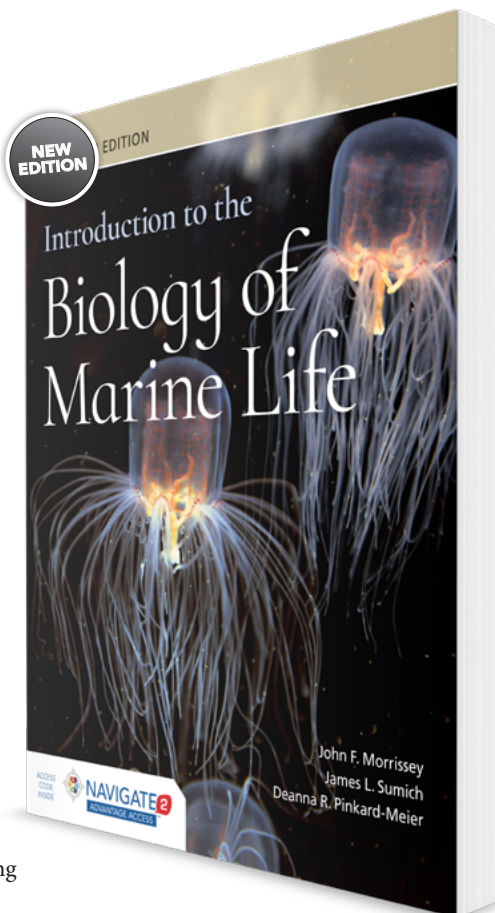
James L. Sumich, PhD, Professor Emeritus
Grossmont College

Deanna Pinkard-Meier, University of San Diego

What is marine biology and why is it important? The eleventh edition of *Introduction to the Biology of Marine Life* answers these questions and inspires students to appreciate marine life and ocean ecosystems. Assuming no prior knowledge of marine biology, this entertaining text covers the essentials to a foundational understanding of marine organisms and their environments. The conversational writing style, latest research, and engaging features are designed to intrigue students, while the new Case Studies encourage them to apply their knowledge to current and real-life situations.

KEY FEATURES

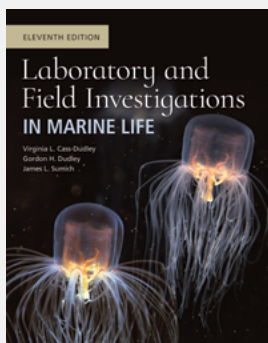
- Two **NEW** chapters discuss *Polar Seas* and *Physical and Chemical Oceanography*
- **NEW Did You Know?** features highlight a fascinating aspect of marine life, offering students information on contemporary events and discoveries
- *Research in Progress* feature offers the latest statistics and modern examples of the current work and findings of marine biologists
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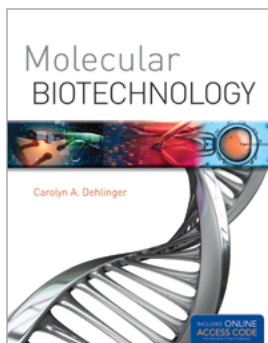
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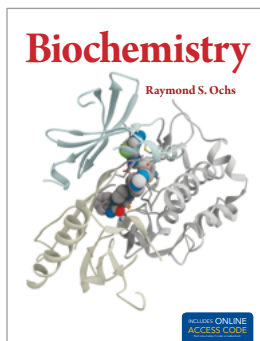
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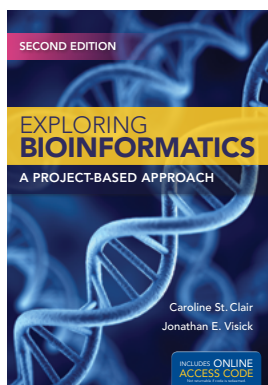
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