

ALCAMO'S MICROBES AND SOCIETY

FOURTH EDITION

JEFFREY C. POMMERVILLE

An Exciting Revision of an Essential Text for a Foundational Course in the Life Sciences

Perennial best-seller *Alcamo's Microbes and Society* is the ideal text for non-majors taking a foundational course in the life sciences. Like its predecessors, the *Fourth Edition* discusses the role of microbes in our daily lives, from food production to biotechnology, and provides extensive coverage of both the positive and negative roles microbes play. The text 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. Students will come away with a critical understanding of the broad impact microbes have on our society.

The *Fourth Edition* retains the user-friendly readability of previous editions while incorporating original features and material, including new information on viruses and microbial groups, new data on microbes in agriculture and the environment, current applications of genetic engineering and biotechnology, and fully updated coverage of microbes and the human microbiome. Discussions of the immune system, bacterial growth and metabolism, and viral and bacterial diseases have been revised for clarity and concept retention, and coverage of food microbiology, vaccines, and human health has been expanded. Comprehensive yet accessible for non-majors, *Alcamo's Microbes and Society, Fourth Edition* is an essential text for students taking an introductory microbiology course.



KEY FEATURES OF THE *FOURTH EDITION*

- Features a student-friendly writing style and balanced approach to provide an accessible introduction to microbiology
- Presents the latest information on contemporary issues, such as microbes in agriculture and the environment and current, real-world applications of genetic engineering and biotechnology
- Includes pedagogical features to enhance clarity and retention, including "A Closer Look" and "Looking Ahead" boxes, and end-of-chapter "Questions to Consider"
- Contains a glossary of key terms with clear definitions and marginal pronunciation keys throughout
- Accompanied by a full suite of instructor resources, including Lecture Outlines in PowerPoint format, an Image Bank, Chapter Outlines, Study Quizzes, a Test Bank, Suggested Readings, a sample syllabus, and answers to the End-of-Chapter Questions



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