Visualizing Microbiology
Rodney P. Anderson, Linda Young

<table>
<thead>
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<th>Price</th>
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</thead>
<tbody>
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<td></td>
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</tbody>
</table>

**DESCRIPTION**

*Visualizing Microbiology, 1st Edition* provides an introduction to microbiology for students who require the basic fundamentals of microbiology as a requirement for their major or course of study. The unique visual pedagogy of the Visualizing series provides a powerful combination of content, visuals, multimedia and videos ideal for microbiology. A dynamic learning platform encouraging engagement with real clinical content, *Visualizing Microbiology* also brings the narrative to life with integrated multimedia helping students see and understand the unseen in the world of microbiology.

**ABOUT THE AUTHOR**

*Rodney P. Anderson* received his Ph.D. in Biological Sciences from the University of Iowa in 1989. His doctoral work centered on protein synthesis mechanisms in E. coli. After graduate school, he began his academic career at Ohio Northern University where he continues to teach and conduct research with undergraduates in the Department of Biological and Allied Health Sciences. He teaches microbiology for
majors and allied health students as well as courses in genetics. He has also introduced non-majors to microbiology through interdisciplinary seminars in Disease and Society.

Dr. Anderson has been actively involved in microbiology education. He has been a past President of ASM’s Conference on Undergraduate Education which developed the core curriculum for undergraduate microbiology courses and has organized and spoke at a number of education division symposia at ASM’s General Meeting. Outreach activities have included Microbial Discovery Workshops for High School science instructors and doing discovery science activities at local elementary schools. He is an author of two books published by ASM press: Outbreak and The Invisible ABCs.

**Linda M. Young**, since earning her Ph.D. in botany at The Ohio State University in 1988, has been teaching freshman and advanced-level biology courses at Ohio Northern University, a student-centered institution which emphasizes effective instruction as a faculty member’s principle responsibility. Throughout her tenure, Dr. Young has regularly directed student-based research projects and periodically collaborated with investigators at OSU. She served seven years as the Assistant Dean of the Getty College of Arts and Sciences which allowed the opportunity to implement several programs to assist students in academic difficulty, ease freshman transition into college, and support the endeavors of high-achieving students.

Although initially educated as a plant/cell physiologist, changing departmental needs led to her retraining. Consequently, Dr. Young now also teaches Microbiology for Allied Health Sciences (nursing) and Introduction to Microbiology (majors). Her research has also changed and now targets infection control issues and antibiosis. Dr. Young serves locally as a member of the Allen County MRSA Task Force and has previously authored the laboratory manual used for General Botany at ONU.
**NEW TO EDITION**

*Case Studies*: Written in the personal narrative format shown to enhance long term knowledge retention, these patient scenarios frame each chapter. Students are exposed to medical scenarios that accurately simulate true patient/care provider interactions. The realistic experience nurtures critical thinking skills while also encouraging development of patient empathy, improving comprehension of patient compliance problems, and facilitating student understanding of transcultural health care concerns.

*Microbiology Toolbox Videos*: Videos of key experiments in Microbiology. These include many classic and common clinical lab experiments along with more recent lab techniques. These provide students exposure into the lab and seeing best practices and application of techniques being learned.

*Common Culprits*: The most significant infections of each body system and risk group will be thoroughly addressed in Visualizing Microbiology. However, to illustrate the scope of medical microbiology, each section will conclude with a list of pathogens that were not targeted for specific discussion in the chapter but should not be ignored.

*Animations*: A comprehensive library of animations, designed to aid student self-learning and to provide faculty with the tools to bring the core Microbiology concepts into the classroom. Visualizing Microbiology will benefit from the development of an animated learning system, consisting of vibrant art, 5-7 3D animations that focus on the core topics of Microbiology, and supplemental 2D animations which allow students to review and revisit the concepts from their class and text.

*In the Hospital*: Chapter opening Video vignettes introducing the chapter material and providing context for better student understanding and engagement. These openers are all shot in clinical settings to provide better student context.

*Clinical Decision Trees*: A number of cases covering a range of topics. These activities allow students to apply the basic information learned within a clinical application helping them building critical thinking skills.

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**FEATURES**

WileyPLUS Learning Space is an easy way for students to learn, collaborate, and grow. With WileyPLUS Learning Space, students create a personalized study plan, assess progress along the way, and make deeper connections as they interact with the course.
material and each other. WileyPLUS Learning Space also includes ORION–integrated, adaptive practice that helps students build their proficiency on topics and use their study time most effectively.

Series

Visualizing Series

For additional product details, please visit https://www.wiley.com/en-us