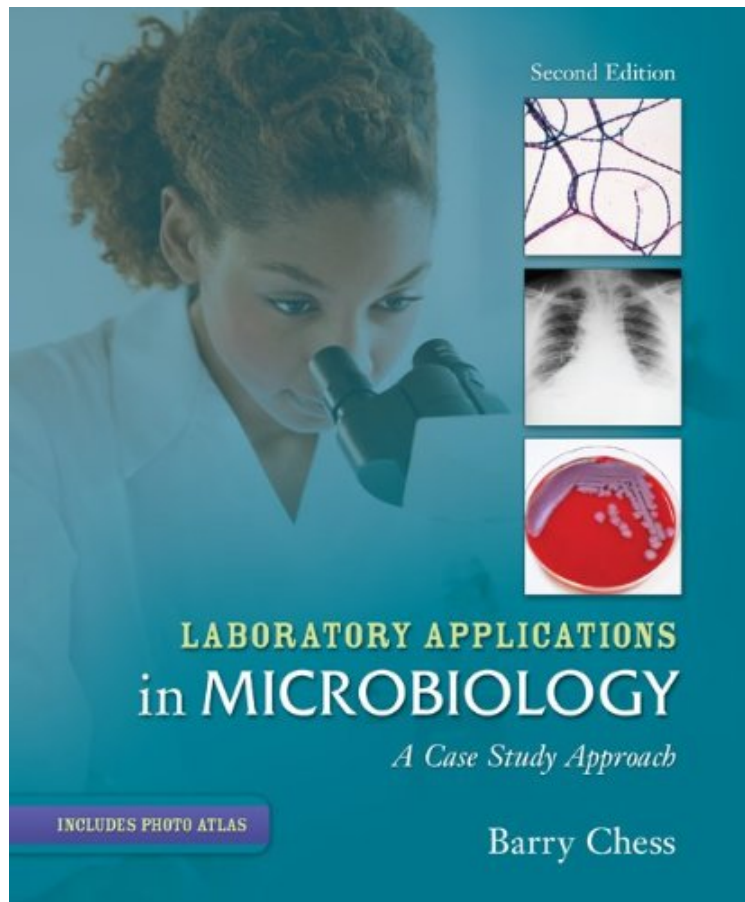


Laboratory Applications in Microbiology: A Case Study Approach

Barry Chess

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Laboratory Applications in Microbiology: A Case Study Approach now includes a photo atlas with more than 250 full-color images! This lab uses real-life case studies as the basis for exercises in the laboratory. This is the only microbiology lab manual focusing on this means of instruction, an approach particularly applicable to the microbiology laboratory. The author has carefully organized the exercises so that students develop a solid intellectual base beginning with a particular technique, moving through the case study, and finally applying new knowledge to unique situations beyond the case study.

About the Author Barry Chess has been teaching microbiology at Pasadena City College for over 15 years. He received his Bachelors and Masters degrees from California State University, Los Angeles, and did several years of postgraduate work at the University of California, Irvine, where his research focused on the expression of eukaryotic genes involved in the development of muscle and bone. At Pasadena City College, Barry developed a new course in human genetics and helped to institute a biotechnology program. He regularly teaches courses in microbiology, general biology, and genetics, and works with students completing independent research projects in biology and microbiology. Over the past several years, Barry's interests have begun to focus on innovative methods of teaching that lead to greater student understanding. He has written cases for the National Center for Case Study Teaching in Science and presented talks at national meetings on the use of case studies in the classroom. In 2009, his laboratory manual, *Laboratory Applications in Microbiology: A Case Study Approach*, was published. He is thrilled and feels very fortunate to be collaborating with Kathy Talaro, with whom he has worked in the classroom for more than a decade, on this ninth edition. Barry is a member of the American Society for Microbiology and regularly attends meetings in his fields of interest, both to keep current of changes in the discipline and to exchange teaching and learning strategies with others in the field.