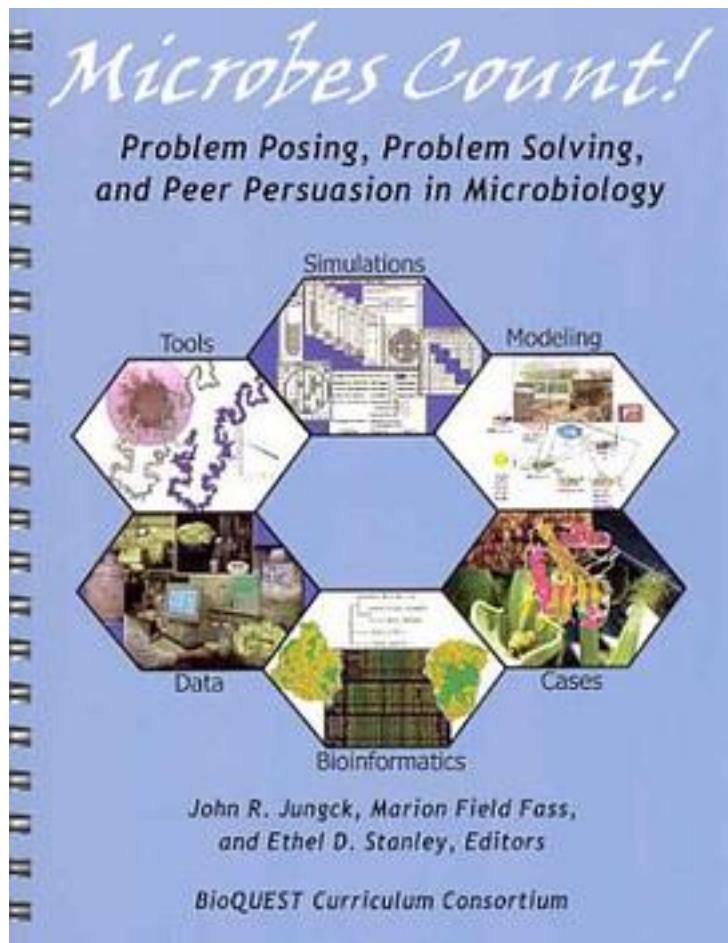


# Microbes Count!



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Microbes Count! is a collection of computer-based investigations for the undergraduate microbiology laboratory. The simulations, case-studies, and computational models in Microbes Count! can be used to supplement standard

textbooks throughout the undergraduate curriculum. Microbes Count! engages students in flexible problem-solving strategies using data-rich situations based on real-world problems such as the environmental impact of microbial metabolism, the analysis of phylogenetic relationships with bioinformatics tools, the challenge of *Pfeisteria*, and the development of antibiotic resistance in *M. tuberculosis*. From virtual laboratories for distance learners to quantitative extensions of wet and field laboratories, the Microbes Count! investigations enhance traditional laboratory and classroom activities with opportunities for in-depth problem solving. The investigations in the book utilize a variety of software and web-based resources, many of which are drawn from the peer-reviewed BioQUEST Library of computer-based curricular materials. The accompanying CD includes all of the software and other resources used in the book, as well as additional data sets, bibliographies, supplemental activities, and software manuals.

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