



# Microbial Physiology and Biochemistry Laboratory: A Quantitative Approach

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*Microbial Physiology and Biochemistry Laboratory* illustrates the major features of growth and metabolism discussed in David White's *The Physiology and Biochemistry of Prokaryotes* (OUP, 1995). It serves as an ideal adjunct to this text and can also be used in conjunction with other books for the laboratory component of a microbial physiology course. All of the experiments described in this manual have been taught as part of a laboratory course for junior and senior biology and microbiology majors at Indiana University. In addition to reinforcing what students learn in lecture, the experiments guide students through a wide spectrum of analytical techniques including enzyme assays, macromolecular assays, column chromatography, gel electrophoresis, and gas chromatography. Along with enzyme assays and enzyme purification, students do experiments measuring oxygen uptake, chemotaxis, fermentation, and bacterial luminescence. The organisms studied include *Escherichia*, *Pseudomonas*, *Bacillus*, *Proteus*, *Rhodospirillum*, *Photobacterium*, and *Saccharomyces*. The volume is enhanced by appendices which include sections on quantitative problems and their solutions, instructions on how to write a laboratory report, and independent projects that are extensions of the class experiments. The number of experiments exceeds the amount of material usually offered in one semester, giving instructors the option to choose those experiments that are most appropriate for their classes.

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