



The Physiology and Biochemistry of Prokaryotes

David White

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The third edition of *The Physiology and Biochemistry of Prokaryotes* covers the basic principles of prokaryotic physiology, biochemistry, and cell behavior. It presents microbial metabolism in the context of the chemical and physical problems that cells must solve in order to grow.

Written in a clear, straightforward manner, the book provides a modern perspective on the diversity of microorganisms, and an updated account of the major aspects prokaryotes, such as cell structure, metabolism, developmental biology, environmental adaptation, biofilm formation, and cellular signaling pathways. It is organized according to topic rather than by organism, therefore helping students understand the general principles of physiology and metabolism. Each chapter ends with thought-provoking study questions, a summary, and an extensive list of references to outside research literature students may go to for more information and detailed explanations of material in the text.

The Physiology and Biochemistry of Prokaryotes, Third Edition, is ideal for advanced undergraduate and graduate courses on microbial physiology of bacterial metabolism. It can be used in conjunction with a laboratory manual, *Microbial Physiology and Biochemistry Laboratory: A Quantitative Approach*, by David White and George D. Hegeman.

Features of the Third Edition

- Includes New Material on: Cell Division, Cell-Cell Signaling, Cell Development, Biofilm Formation
- Contains boxed asides that cite interesting historical information about important discoveries and notable people in the field from the 19th Century to the 1960s

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