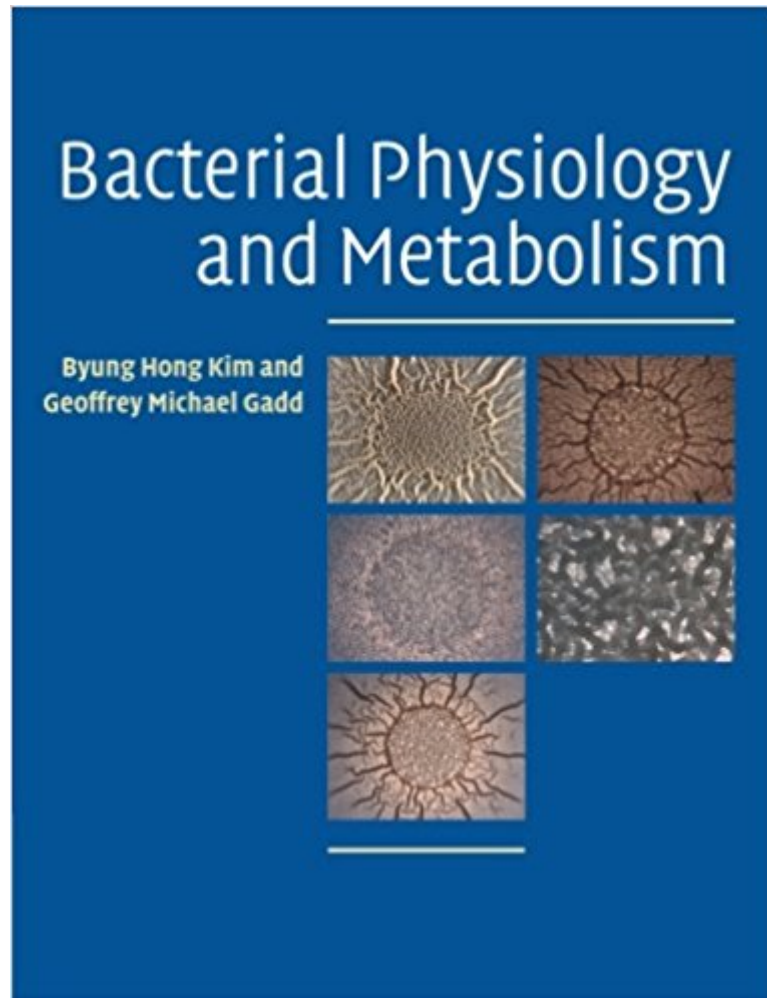




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Bacterial Physiology And Metabolism



Synopsis

Recent determination of genome sequences for a wide range of bacteria has made in-depth knowledge of prokaryotic metabolic function essential in order to give biochemical, physiological, and ecological meaning to the genomic information. Clearly describing the important metabolic processes that occur in prokaryotes under different conditions and in different environments, this advanced text provides an overview of the key cellular processes that determine bacterial roles in the environment, biotechnology, and human health. Prokaryotic structure is described as well as the means by which nutrients are transported into cells across membranes. Glucose metabolism through glycolysis and the TCA cycle are discussed, as well as other trophic variations found in prokaryotes, including the use of organic compounds, anaerobic fermentation, anaerobic respiratory processes, and photosynthesis. The regulation of metabolism through control of gene expression and control of the activity of enzymes is also covered, as well as survival mechanisms used under starvation conditions.

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"Ample charts and tables make it simple to follow complex pathways. The accurate, current information in this volume is extremely applicable to researchers in the fields of bioprocessing, bionanotechnology, bioremediation, and fermentation. Highly recommended." B. R. Shmaefsky, Choice Magazine

By clearly describing the important metabolic processes that occur in prokaryotes under different conditions and in different environments, this book provides a foundation for understanding the important cellular processes that determine bacterial roles in the environment, biotechnology and human health. An extensively illustrated text for advanced students and professionals.

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Excelent and update book.

I enjoied its details and explanations , excellent back up for the field. detailed clarifications with the diagrams were very helpdul.

Compared to White or Cohen this is easier to understand and less detailed. Will be good for use with students.Received in good shape and on time.

I have only read the first few chapters so far, and it is good and informative thus far. Since I have not read more, I have given it 4 stars (for the reading up to this point).

Book is in excellent condition and a good source of information in microbial physiology. Quite frankly its the book, my instructor swears by. So.....

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