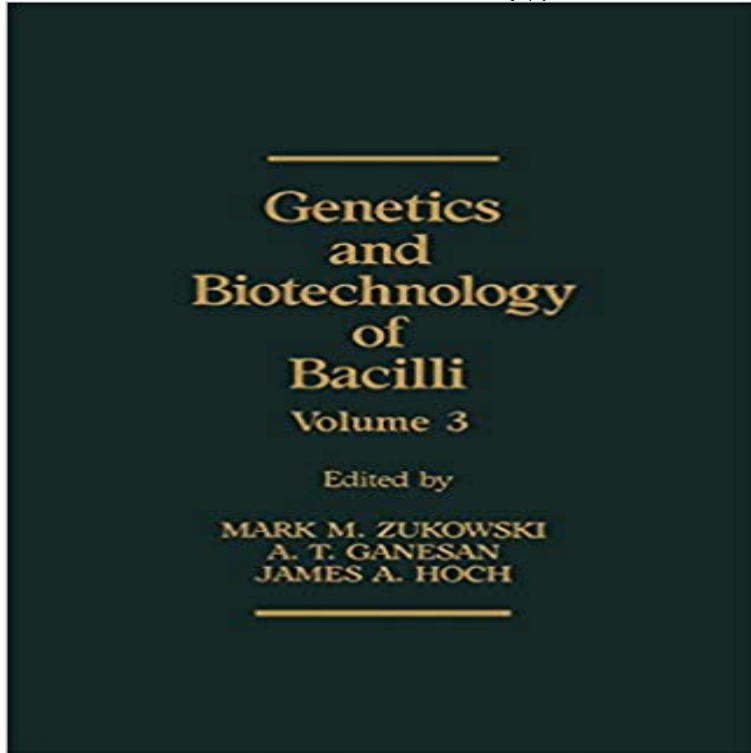


Genetics and Biotechnology of Bacilli: 3



Genetics and Biotechnology of Bacilli, Volume 3 covers the proceedings of the Fifth International Conference on Genetics and Biotechnology of Bacilli, held on July 9-12, 1989 at the Asilomar Conference Center, Pacific Grove, California. It summarizes the remarkable progress made in the genetics and biotechnology fields of Bacilli. It is organized into four parts, encompassing 43 chapters, which focus on gene regulation and structure, enzyme structure, *Bacillus thuringiensis* toxins, and stationary phase gene regulation. Part I covers topics related to gene regulation and structure of Bacilli, such as control of gene expression, mutation, genetic organization, DNA sequence analysis, and identification of transcript units. It also discusses gene replication in *Bacillus subtilis* plasmids, levanase operon of *B. subtilis*, and characterization of global regulon in *B. subtilis*. The next part of this book focuses on the structure of various enzymes found in *B. subtilis*, including alpha amylases, subtilisin, alkaline phosphatase, and levansucrase. Part III discusses the generation of functional *B. thuringiensis* toxin hybrid genes, regulation of crystal protein gene promoters, toxicity of *B. thuringiensis* delta-endotoxin, and insecticidal activity of chimeric protoxins. The concluding part covers the aspects of signal transduction, regulation of differential gene expression during *B. subtilis* sporulation, and gene cloning and deletion for extracellular proteases of *B. subtilis*. It also discusses genetic and biochemical aspects of protein phosphorylation; properties of *B. subtilis* spores; control of stationary phase gene expression; and the novel regulatory gene, *senS*, of *B. subtilis*. This book is a valuable source of information for microbiologists, research biologists, and Bacilli enthusiasts.

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