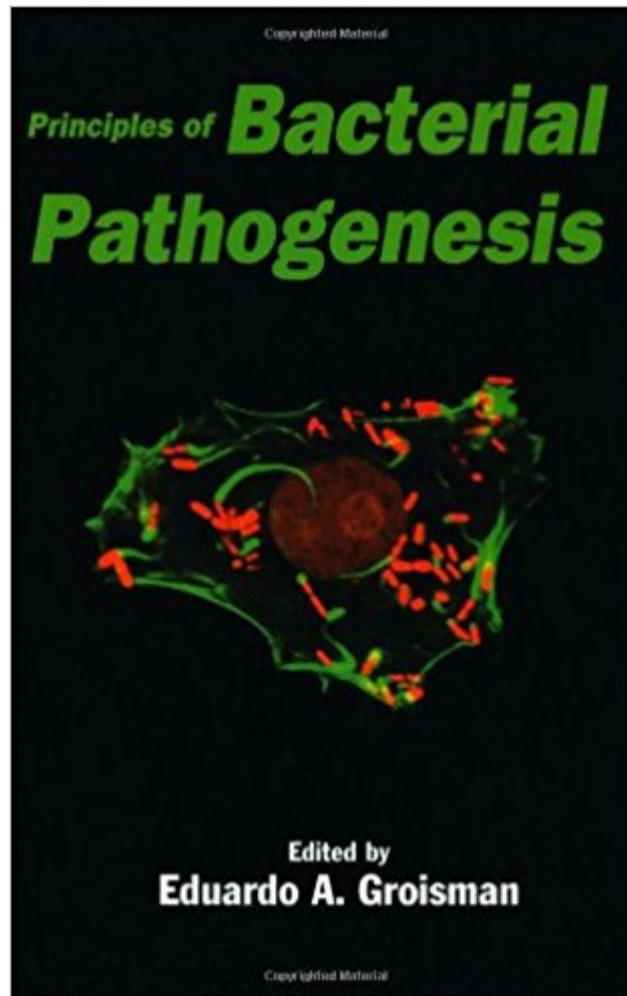




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Principles Of Bacterial Pathogenesis



Synopsis

Principles of Bacterial Pathogenesis presents a molecular perspective on a select group of bacterial pathogens by having the leaders of the field present their perspective in a clear and authoritative manner. Each chapter contains a comprehensive review devoted to a single pathogen. Several chapters include work from authors outside the pathogenesis field, providing general perspectives on the evolution, regulation, and secretion of virulence and determinants. Explains the basic principles of bacterial pathogenesis Covers diverse aspects integrating regulation, cellular microbiology and evolution of microbial disease of humans Discusses current strategies for the identification of virulence determinants and the methods used by microbes to deliver virulence factors Presents authoritative treatises of the major disease microorganisms

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Customer Reviews

This book presents a molecular perspective on the general principles of bacterial pathogenesis, paired with detailed discussions on a select group of bacterial pathogens of humans. This comprehensive treatise presents contributions by 36 leading experts in the fields of molecular microbiology and microbial pathogenesis and provides broad coverage of bacterial pathogenesis in a clear and authoritative manner. The introductory chapters of Principles of Bacterial Pathogenesis discuss aspects common to different pathogens including their evolution, the secretion and regulation of virulence determinants, and a thorough description of strategies for the identification of

virulence determinants. The book is balanced by additional chapters devoted to detailed treatments of the best characterized bacterial pathogens of humans including *Shigella*, *Salmonella*, *Listeria*, *Neisseria*, and *Helicobacter pylori*. Each of these chapters offers an overview on the pathogen and disease symptoms before presenting the molecular biological analysis of bacterial infection. This approach, along with the inclusion of informative figures and tables, makes the text accessible to the uninitiated and useful to experts in the field. This book is the key source for a broad audience interested in a deeper understanding of infectious diseases: advanced students, Infectious Diseases fellows, medical students and research scientists.

Highlights*

- Explains the basic principles of bacterial pathogenesis
- Covers diverse aspects integrating regulation, cellular microbiology and evolution of microbial disease of humans
- Discusses current strategies for the identification of virulence determinants and the methods used by microbes to deliver virulence factors
- Presents authoritative treatises of the major disease microorganisms

Dr. Eduardo A. Groisman is a Professor of Molecular Microbiology at the Washington University School of Medicine and an Associate Investigator of the Howard Hughes Medical Institute. He is an accomplished microbiologist with an interest in bacterial pathogenesis investigating the regulation and function of virulence determinants and the evolution of bacterial pathogens.

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