

Microbial Biofilms: Omics, Biology, Antimicrobials, and Clinical Implications

Microbial biofilms are complex communities of microorganisms that adhere to surfaces and form a protective matrix. They are found in a variety of environments, including the human body, and can cause a variety of infections. Biofilms are often difficult to treat, as they are resistant to antibiotics and other antimicrobial agents.

This book provides a comprehensive overview of the biology of microbial biofilms, with a focus on their clinical implications. The book is divided into four sections:

- **Section 1: Omics of Microbial Biofilms**
- **Section 2: Biology of Microbial Biofilms**
- **Section 3: Antimicrobials and Microbial Biofilms**
- **Section 4: Clinical Implications of Microbial Biofilms**

The first section of the book provides an overview of the omics of microbial biofilms. This includes genomics, transcriptomics, proteomics, and metabolomics. The authors discuss how these techniques can be used to study the structure and function of biofilms, and how they can be used to identify new targets for antimicrobial therapy.

Microbial Biofilms: Omics Biology, Antimicrobials and Clinical Implications



5 out of 5

Language

: English



File size : 3260 KB
Text-to-Speech : Enabled
Enhanced typesetting : Enabled
Print length : 290 pages

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The second section of the book provides a detailed overview of the biology of microbial biofilms. The authors discuss the different types of biofilms, how they form, and how they interact with the host. They also discuss the role of biofilms in chronic infections, such as those of the lungs, urinary tract, and skin.

The third section of the book discusses the use of antimicrobials to treat biofilm infections. The authors review the different types of antimicrobials that are active against biofilms, and they discuss the challenges of treating biofilm infections. They also discuss the development of new antimicrobial agents that are specifically designed to target biofilms.

The fourth section of the book discusses the clinical implications of microbial biofilms. The authors discuss the role of biofilms in a variety of diseases, including infections of the lungs, urinary tract, skin, and medical devices. They also discuss the challenges of diagnosing and treating biofilm infections, and they provide recommendations for preventing and controlling biofilm infections.

Microbial biofilms are a major public health problem. They are responsible for a variety of infections, and they are often difficult to treat. This book

provides a comprehensive overview of the biology of microbial biofilms, with a focus on their clinical implications. The book is an essential resource for anyone who is interested in understanding and treating biofilm infections.



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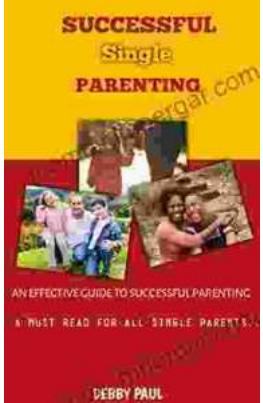
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