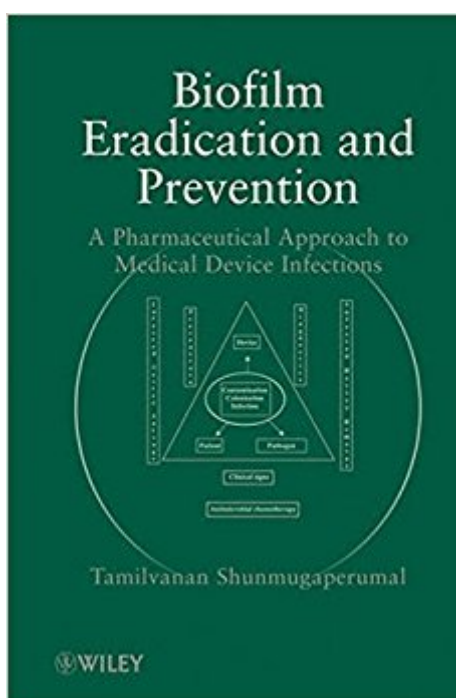


The book was found

# Biofilm Eradication And Prevention: A Pharmaceutical Approach To Medical Device Infections



## Synopsis

Biofilm Eradication and Preventions presents the basics of biofilm formation on medical devices, diseases related to this formation, and approaches pharmaceutical researchers need to take to limit this problem. Split into three parts, the first deals with the development and characterization of biofilm on the surfaces of implanted or inserted medical devices. Questions as to why biofilms form over medical device surfaces and what triggers biofilm formation are addressed. In the second section, the author discusses biofilm-mediated chronic infections occurred in various organs (eyes, mouth, wounds) and pharmaceutical and drug delivery knowledge gained from research in these area. The third part explores pharmaceutical approaches like lipid-and polymer-based drug delivery carriers for eradicating biofilm on device-related infections. In addition, this section also explores the topic of novel small molecule (like iron and its complexes/metal chelators) and a quorum-sensing inhibitors to control medical biofilm formation.

## Book Information

Hardcover: 431 pages

Publisher: Wiley; 1 edition (September 7, 2010)

Language: English

ISBN-10: 0470479965

ISBN-13: 978-0470479964

Product Dimensions: 6.4 x 1.1 x 9.6 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #5,109,342 in Books (See Top 100 in Books) #47 in Books > Textbooks > Medicine & Health Sciences > Medicine > Special Topics > Prosthesis #152 in Books > Textbooks > Medicine & Health Sciences > Reference > Instruments & Supplies #245 in Books > Medical Books > Medicine > Reference > Instruments & Supplies

## Customer Reviews

New pharmaceutical approaches to managing infectious biofilm formation on medical devices As the use of implanted medical devices has grown, researchers have discovered that the non-shedding surfaces of medical devices often provide ideal substrata for colonization by biofilm-forming microbes. As a result, the incidence of biofilm-associated diseases among patients with implanted devices has also grown. In response, this book examines new and emerging pharmaceutical approaches to prevent or eradicate the formation of infectious biofilms on medical

devices. It also examines non-device-related biofilm infections. Moreover, the book offers the most current understanding of biofilm structure, composition, organization, and activities. Biofilm Eradication and Prevention is divided into three parts: Part 1, "Development and Characterization of Biofilm," explores what triggers biofilm formation and why biofilms form over medical device surfaces as well as human tissue and organs. Part 2, "Biofilm-Related Infections in Various Human Organs (Non-Device-Related Chronic Infections)," examines the latest pharmaceutical and drug delivery research into biofilm-related infections that develop on the eye, mouth, skin wounds, and lungs. Part 3, "Drug Delivery Carriers to Eradicate Biofilm Formation on Medical Devices," explains pharmaceutical approaches such as lipid- and polymer-based drug delivery carriers to eradicate biofilm infection on medical devices; it ends with a discussion of novel small molecule control of bacterial biofilm formation. With its coverage of biofilm formation, diseases related to biofilm formation on medical devices and human organs, as well as pharmaceutical solutions, this book is an essential reference for researchers in the pharmaceutical and medical device industry as well as clinicians who treat patients with medical devices.

TAMILVANAN SHUNMUGAPERUMAL, PhD, works in the Department of Pharmaceutical Technology at the International Medical University in Kuala Lumpur, Malaysia. His current research seeks to exploit the potential of lipid- and polymer-based drug delivery carriers to eradicate infectious biofilm formation associated with both medical devices and human organs.

[Download to continue reading...](#)

Biofilm Eradication and Prevention: A Pharmaceutical Approach to Medical Device Infections  
Yeast Infections: Yeast Infections Guide To Treating Yeast Infections And Curing Yeast Infections With Candida Diet Strategies, Candida Recipes And Candida ... Guide To Yeast Infections No More)  
How to Add a Device to Account: How to add a device to my account - 3 easy steps in few minutes  
Introduction to the Pharmaceutical Sciences: An Integrated Approach (Pandit, Introduction to the Pharmaceutical Sciences)  
Virus Infections of Rodents and Lagomorphs: Virus Infections of Vertebrates Series, 1e (Machine Intelligence and Pattern Recognition)  
Permanently Beat Urinary Tract Infections: Proven Step-by-Step Cure for Urinary Tract Infection and Cystitis. All Natural, Lasting UTI Remedies That Will ... Infections (Women's Health Expert Series)  
Virus Infections of Birds: Virus Infections of Vertebrates Series, 1e  
Virus Infections of Ruminants (Virus Infections of Vertebrates, 3)  
Medical Terminology: Medical Terminology Easy Guide for Beginners (Medical Terminology, Anatomy and Physiology, Nursing School, Medical Books, Medical School, Physiology, Physiology)  
Medical Terminology: Medical Terminology Made Easy: Breakdown the

Language of Medicine and Quickly Build Your Medical Vocabulary (Medical Terminology, Nursing School, Medical Books) Medical Device Register 1996: The Official Directory of Medical Suppliers (2 Vol Set) Automation and Validation of Information in Pharmaceutical Processing (Drugs and the Pharmaceutical Sciences) Transport Processes in Pharmaceutical Systems (Drugs and the Pharmaceutical Sciences) Pharmaceutical Skin Penetration Enhancement (Drugs and the Pharmaceutical Sciences) Pharmaceutical Particulate Carriers: Therapeutic Applications (Drugs and the Pharmaceutical Sciences) The Clinical Audit in Pharmaceutical Development (Drugs and the Pharmaceutical Sciences) Polymorphism in Pharmaceutical Solids (Drugs and the Pharmaceutical Sciences) Pharmaceutical Process Validation, Second Edition (Drugs and the Pharmaceutical Sciences) Pharmaceutical Dosage Forms: Tablets, Third Edition (Three-Volume Set): Pharmaceutical Dosage Forms: Tablets, Volume 1, Second Edition Medical Science and Medical Industry: The Formation of the American Pharmaceutical Industry (Henry E. Sigerist Series in the History of Medicine)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)