

Springer Series on Biofilms

Hans-Curt Flemming
Jost Wingender
Ulrich Szewzyk *Editors*

Biofilm Highlights

 Springer

Biofilm Highlights Springer Series On Biofilms

Surajit Das, Neelam Amit Kungwani



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Biofilm Highlights Hans-Curt Flemming, Jost Wingender, Ulrich Szewzyk, 2011-08-02 Living in biofilms is the common way of life of microorganisms transiently immobilized in their matrix of extracellular polymeric substances EPS interacting in many ways and using the matrix as an external digestion and protection system This is how they have organized their life in the environment in the medical context and in technical systems and has helped make them the oldest most successful and ubiquitous form of life In this book hot spots in current biofilm research are presented in critical and sometimes provocative chapters This serves a twofold purpose to provide an overview and to inspire further discussions Above all the book seeks to stimulate lateral thinking *A Modern Approach to Biofilm-Related Orthopaedic Implant Infections* Lorenzo

Drago, 2017-05-16 This book discusses Prosthetic Joint Infection PJI which remains one of the most common problems necessitating revision arthroplasty It pursues a multidisciplinary approach bringing together opinions from the leading experts in the field The book identifies the potential causes of these infections provides sound diagnostic criteria guidelines and explains how these prosthetic infections are managed from orthopedic surgery clinical and diagnostic perspectives PJI can lead to multiple revision surgeries and significant patient morbidity Periprosthetic infection rates remain around 1 2% after primary total hip and knee arthroplasty and account for approximately 7 12% of all revision cases Orthopedic hardware infections are much feared and costly complications that can occur when these devices are implemented both in traumatic cases as well as in joint replacement surgery Because these infections can lead to higher morbidity it is important to understand their pathophysiology and the principles behind their diagnosis and initial treatment The pathogenesis of these kinds of infections is intimately connected to the biofilm producing trait characteristic of many microorganisms which can have a critical effect on the likely success of treatments The book offers a unique guide for all scientists working in arthroplasty who are seeking an update on the field and for newcomers alike **Understanding Microbial Biofilms**

Surajit Das, Neelam Amit Kungwani, 2022-10-27 Selected for Doody's Core Titles 2024 in Microbiology Understanding Microbial Biofilms Fundamentals to Applications focuses on the microbial biofilms of different environments The book provides a comprehensive overview of the fundamental aspects of microbial biofilms their existence in nature their significance and the different clinical and environmental problems associated with them The book covers both the fundamentals and applications of microbial biofilms with chapters on the introduction to the microbial community and its architecture physiology mechanisms and imaging of biofilms in nature and fungal algal and bacillus biofilm control In addition the book highlights the molecular and biochemical aspects of bacterial biofilms providing a compilation of chapters on the bacterial community and communication from different environments Finally the book covers recent advancements in various aspects of microbial biofilms including the chapters on their biotechnological applications All the chapters are written by experts who have been working on different aspects of microbial biofilms Illustrates fundamental aspects

surrounding microbial biofilms along with recent advancements Provides an overview on the principal aspects of biofilms i e formation regulation distribution control and application Updates on the progress on biofilm regulation through omics Serves as a classical manual for all researchers academicians and students who would want complete insights on biofilms in a single resource Covers all recent advancements and amendments on microbial biofilms

Disinfection of Root Canal Systems

Nestor Cohenca,2014-06-18 Clean root canal systems are essential for successful endodontic treatment With contributions from leading endodontists from around the world Dr Nestor Cohenca here presents the etiology of endodontic disease caused by the endodontic biofilm and all therapies available to predictably disinfect the root canal system thus increasing successful endodontic outcomes Disinfection of Root Canal Systems The Treatment of Apical Periodontitis is an evidence based manual that describes root canal anatomy the endodontic biofilm and the role of disinfection before presenting the most up to date methods of irrigation and disinfection Individual chapters are devoted to each method such as positive pressure irrigation apical negative pressure irrigation sonic activation photodynamic therapy laser technology and ozonization and electrochemical activation Clinical photographs throughout show proper irrigation and disinfection techniques

Microbial

Applications Vol.1 Vipin Chandra Kalia,Prasun Kumar,2017-04-04 This contributed volume sheds new light on waste management and the production of biofuels The authors share insights into microbial applications to meet the challenges of environmental pollution and the ever growing need for renewable energy They also explain how healthy and balanced ecosystems can be created and maintained using strategies ranging from oil biodegradation and detoxification of azo dyes to biofouling In addition the book illustrates how the metabolic abilities of microorganisms can be used in microbial fuel cell technologies or for the production of biohydrogen It inspires young researchers and experienced scientists in the field of microbiology to explore the application of green biotechnology for bioremediation and the production of energy which will be one of the central topics for future generations

Treatment of Endodontic Infections

José F. Siqueira Jr,Isabela N. Rôças,2022-06-22 Apical periodontitis is one of the most common inflammatory diseases that affect humans and is caused by microbial infection of the dental root canal system A thorough understanding of the etiology and pathogenesis of apical periodontitis is essential for high quality endodontic practice based on a solid scientific foundation The first section of this book deals with microbiologic and pathophysiologic aspects of the different manifestations of apical periodontitis while the second section describes the best evidence for predictable treatment and prevention of the disease Clinical techniques and protocols to treat endodontic infections are described in detail This new edition boasts a team of renowned authorities in the field that contribute state of the art evidence about the biology and practice of the endodontic treatment of teeth with infected root canals The content is supplemented with numerous full color illustrations and radiographs This book is a definitive guide to those involved with the prevention and treatment of endodontic infections

Pulp and Paper Industry

Pratima Bajpai,2015-04-09 Pulp and Paper Industry Microbiological Issues in Papermaking features in depth and thorough

coverage of microbiological issues in papermaking and their consequences and the current state of the different alternatives for prevention treatment and control of biofilm slime considering the impact of the actual technological changes in papermaking on the control programmes The microbial issues in paper mill systems chemistry of deposits on paper machines the strategies for deposit control and methods used for the analysis of biofouling are all dealt in this book along with various growth prevention methods The traditional use of biocides is discussed taken into account the new environmental regulations regarding their use Finally discusses the trends regarding the future of the microbiological control in papermaking systems In depth coverage of microbiological issues in papermaking and their consequences Discusses eco efficient processes green processes for biofilm slime control Offers a thorough review of the current literature with links to the primary literature Comprehensive indexing Author is an authority in the pulp and paper industry

Reverse Osmosis Jane Kucera, 2015-05-22 This new edition of the bestselling Reverse Osmosis is the most comprehensive and up to date coverage of the process of reverse osmosis in industrial applications a technology that is becoming increasingly more important as more and more companies choose to go green This book covers all of the processes and equipment necessary to design operate and troubleshoot reverse osmosis systems from the fundamental principles of reverse osmosis technology and membranes to the much more advanced engineering principles necessary for designing a reverse osmosis system The second edition is an enhanced version of the original best seller Each chapter has been reviewed and updated Revised features include more detail on various pretreatment techniques such as greensand and pyrolusite pretreatment media The design projection chapter has been edited to include up to date information on current projection programs A new section on microbial fouling control featuring chlorine and alternative techniques is included to address the needs of most RO systems Also a discussion on forward osmosis is added as an alternative and or companion technology to reverse osmosis for water treatment The second edition includes all updated basic in depth information for design operation and optimization of reverse osmosis systems Earlier chapters cover the basic principles the history of reverse osmosis basic terms and definitions and essential equipment The book then goes into pretreatment processes and system design then finally operations and troubleshooting The author includes a section on the impact of other membrane technologies and even includes a Frequently Asked Questions chapter

Study of Biocompatible and Biological Materials Emilia Pecheva, 2017-05-05 The book focuses on the topic of bio mineralization and discusses the properties of biological biocompatible and biomimetic materials The aim is to improve the performance of these materials This can be accomplished by tailoring their surface properties by means of external factors and various surface modification techniques In this way the growth of biomaterials on surfaces can be influenced beneficially Chapter 2 explores typical techniques for surface characterization and shows how these techniques can be modified to serve specific needs in the study of biomaterials Chapters 3 and 4 reveal factors that can be used to influence the growth of the biomaterial hydroxyapatite the main inorganic constituent in mammal bones and teeth Proteins are also used to modulate the

cellular interactions with the hydroxyapatite The remaining chapters are devoted to an example of the pathological mineralization namely the formation of bacterial films on teeth and soft tissues in the mouth and how it can be removed to achieve better oral health

Lasers in Endodontics Giovanni Olivi, Roeland De Moor, Enrico Di Vito, 2016-03-15 This book offers up to date information on all aspects of the use of lasers in endodontics focusing especially on the various laser applications including primary and permanent root canal therapies retreatments apical surgery and pulp therapy Every laser technique used in endodontics is carefully described and illustrated with detailed coverage of both conventional methods and more recent developments such as laser activated irrigation and photon induced photoacoustic streaming In addition a separate section addresses the basic science of laser dentistry explaining the physics describing laser tissue interactions and discussing different types of laser Extensive reference is made to the international literature in order to provide the reader with a clear evidence based understanding of the merits of various approaches In offering a balanced mix of descriptions of clinical applications clinical data scientific research and logical criticism the book will serve as an excellent reference for a wide audience comprising general dentists as well as specialists

Embracing the Melody of Expression: An Psychological Symphony within **Biofilm Highlights Springer Series On Biofilms**

In some sort of taken by displays and the ceaseless chatter of fast communication, the melodic beauty and psychological symphony created by the published word usually fade into the back ground, eclipsed by the constant sound and disturbances that permeate our lives. But, situated within the pages of **Biofilm Highlights Springer Series On Biofilms** an enchanting literary prize full of organic feelings, lies an immersive symphony waiting to be embraced. Constructed by a masterful musician of language, this charming masterpiece conducts readers on a psychological trip, well unraveling the concealed melodies and profound influence resonating within each cautiously constructed phrase. Within the depths with this poignant evaluation, we can discover the book is key harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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