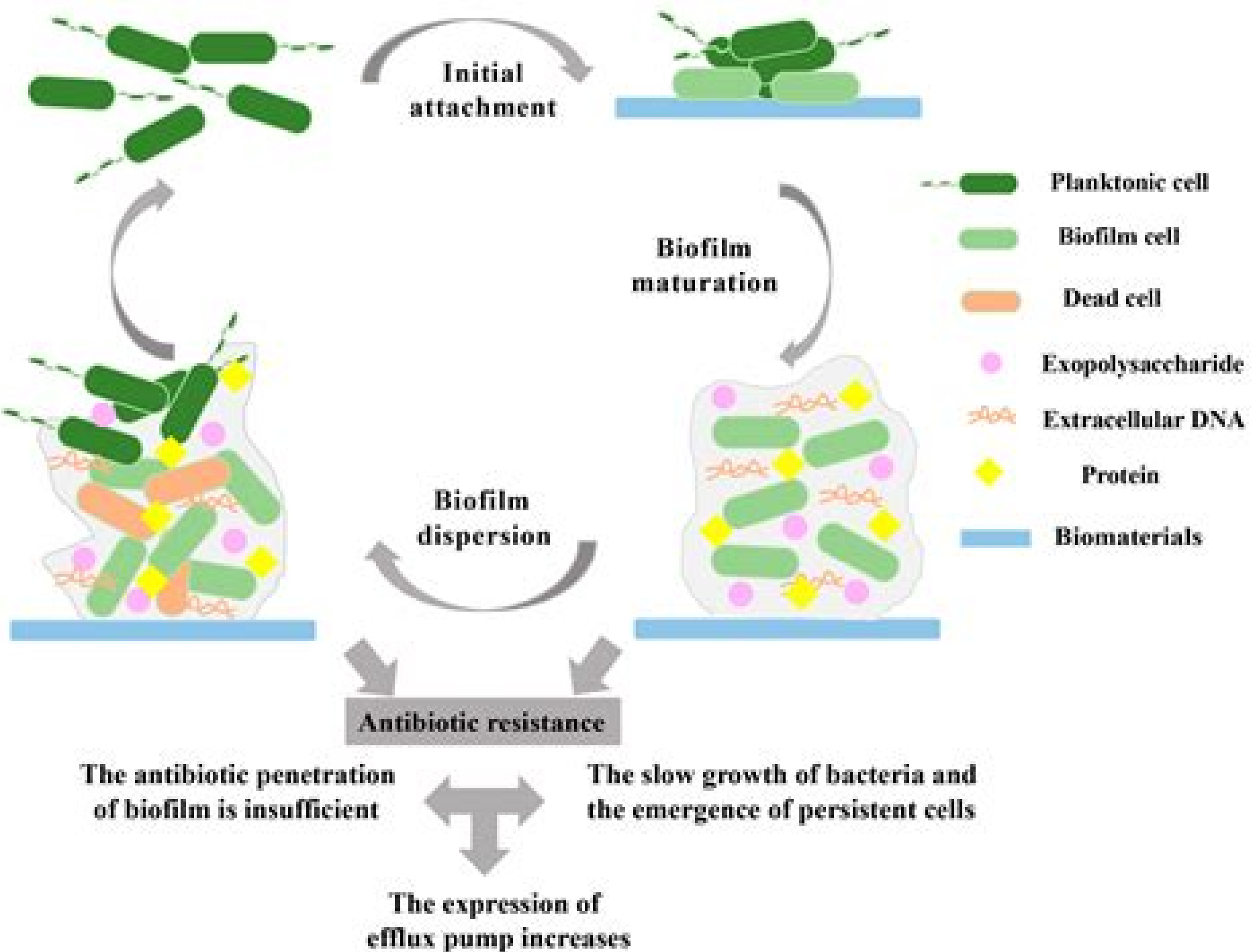




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Kanematsu,Dana M. Barry,2015 This book explains the formation of biofilm on materials surfaces in an industrial setting The authors describe new developments in understanding of biofilm formation detection and control from the viewpoint of materials science and engineering The book details the range of issues caused by biofilm formation and the variety of affected industries **Machine Learning in 2D Materials Science** Parvathi Chundi,Venkataramana Gadhamshetty,Bharat

K. Jasthi,Carol Lushbough,2023-11-13 Data science and machine learning ML methods are increasingly being used to transform the way research is being conducted in materials science to enable new discoveries and design new materials For any materials science researcher or student it may be daunting to figure out if ML techniques are useful for them or if so which ones are applicable in their individual contexts and how to study the effectiveness of these methods systematically KEY FEATURES Provides broad coverage of data science and ML fundamentals to materials science researchers so that they can confidently leverage these techniques in their research projects Offers introductory material in topics such as ML data integration and 2D materials Provides in depth coverage of current ML methods for validating 2D materials using both experimental and simulation data researching and discovering new 2D materials and enhancing ML methods with physical properties of materials Discusses customized ML methods for 2D materials data and applications and high throughput data acquisition Describes several case studies illustrating how ML approaches are currently leading innovations in the discovery development manufacturing and deployment of 2D materials needed for strengthening industrial products Gives future trends in ML for 2D materials explainable AI and dealing with extremely large and small diverse datasets Aimed at materials science researchers this book allows readers to quickly yet thoroughly learn the ML and AI concepts needed to ascertain the applicability of ML methods in their research *Formation and Control of Biofilm in Various Environments* Hideyuki

Kanematsu,Dana M. Barry,2020-01-25 This book provides excellent techniques for detecting and evaluating biofilms sticky films on materials that are formed by bacterial activity and produce a range of industrial and medical problems such as corrosion sanitary problems and infections Accordingly it is essential to control biofilms and to establish appropriate countermeasures from both industrial and medical viewpoints This book offers valuable detailed information on these countermeasures It also discusses the fundamentals of biofilms relates various substrates to biofilms and presents a variety of biofilm reactors However the most important feature of this book unlike others on the market is its clear focus on addressing the practical aspects from an engineering viewpoint Therefore it offers an excellent practical guide for engineers

and researchers in various fields and can also be used as a great academic textbook

Advances in Ceramics for Environmental, Functional, Structural, and Energy Applications Morsi M. Mahmoud, Kumar Sridharan, Henry Colorado, Amar S. Bhalla, J. P. Singh, Surojit Gupta, Jason Langhorn, Andrei Jitianu, Navin Jose Manjooran, 2018-09-27 This volume contains 20 manuscripts presented during the Materials Science Technology 2017 Conference MS T 17 held October 8-12, 2017 at the David L. Lawrence Convention Center, Pittsburgh, PA. Papers from the following symposia are included in this volume: 9th International Symposium on Green and Sustainable Technologies for Materials Manufacturing and Processing; Advances in Dielectric Materials and Electronic Devices; Construction and Building Materials for a Better Environment; Innovative Processing and Synthesis of Ceramics; Glasses and Composites; Materials Issues in Nuclear Waste Management in the 21st Century; Materials Development for Nuclear Applications and Extreme Environments; Materials for Nuclear Energy Applications; Nanotechnology for Energy; Healthcare and Industry; Processing and Performance of Materials Using Microwaves; Electric and Magnetic Fields; Ultrasound; Lasers and Mechanical Work. Rustum Roy Symposium: These symposia provided a forum for scientists, engineers, and technologists to discuss and exchange state-of-the-art ideas, information, and technology on advanced methods and approaches for processing, synthesis, characterization, and applications of ceramics, glasses, and composites. Each manuscript was peer-reviewed using The American Ceramic Society's review process. The editors wish to extend their gratitude and appreciation to their symposium co-organizers to all of the authors for their valuable submissions, to all the participants and session chairs for their time and effort, and to all the reviewers for their comments and suggestions. We hope that this volume will serve as a useful reference for the professionals working in the field of materials science.

Good Hygiene Practices and Their Prevention of Biofilms in the Food Industry Roy Fink, 2019-07-12 This book highlights the importance of hygiene in the food industry with regard to biofilms, which can be found on the contact materials of various food production facilities, including bakery, brewing, seafood processing, and dairy and meat processing. Good hygiene practices in such facilities can prevent microbial niches and harbourage sites, facilitate cleaning and disinfection, maintain or increase product shelf life, and improve food safety. This book provides essential information on the updated information on biofilm growth conditions, detection methods, and prevention and control strategies.

Oral Biofilms and Modern Dental Materials Andrei Cristian Ionescu, Sebastian Hahnel, 2021-04-01 This book provides an up-to-date perspective on oral biofilms and dental materials, equipping readers with a sound understanding of their mutual interactions. Experts from across the world comprehensively describe the main strategies that can be followed when designing modern bioactive and biomimetic dental materials, bearing in mind the goal of reducing the occurrence of pathological conditions such as secondary caries and peri-implantitis. The background to the book is the rapid expansion in the use of nanotechnologies and modern techniques to achieve levels of performance of dental materials that were unthinkable even a few years ago. Whereas conventionally dental materials have been regarded as inert, an important

paradigm shift is underway now these materials are being conceived as bioactive and biomimetic Modern dental materials can produce a response by interacting positively both with the host and with the biofilm permanently colonizing hard and soft tissues of the oral cavity These materials increasingly mimic the behavior of the tissues that they are replacing In documenting the latest knowledge in the field this book will be of value for both scientists in the fields of nanotechnology biofilms and dental materials and interested clinicians

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

Exploring Bacterial Biofilms Sadık Dincer,Melis Sumengen Ozdenefe,Hatice Aysun Mercimek Takci,2025-09-10 This volume presents a multidisciplinary exploration of bacterial biofilms resilient microbial communities that influence medicine biotechnology agriculture and environmental science From clinical complications to ecological applications biofilms represent both a persistent challenge and a promising resource Chapters cover critical topics such as biofilm disinfection in medical devices immune responses in chronic tonsillitis and the alarming role of biofilms in antibiotic resistance Innovative research on dual species biofilm interactions and pH regulation mechanisms further deepens our understanding of microbial survival strategies Natural solutions are also in focus The anti biofilm effects of garlic thyme and phytochemicals provide exciting prospects in the fight against resistant pathogens including MRSA These plant derived compounds are explored as sustainable alternatives to conventional antimicrobials Importantly the book moves beyond biofilms as threats It reveals their positive potential in bioremediation sustainable agriculture and industrial processes offering a broader view of how biofilms can be harnessed for innovation This book is tailored for a broad audience Medical professionals seeking insight into infection control Microbiologists and immunologists exploring host microbe interactions

Pharmaceutical researchers developing novel antimicrobial strategies Environmental scientists and biotechnologists interested in eco friendly solutions And graduate students in related fields looking for a comprehensive overview With its clear structure and accessible language this collection bridges the gap between fundamental research and real world application making it an essential resource for anyone working with or studying the multifaceted world of biofilms *Recent Trends in Biofilm Science and Technology* Manuel Simoes, Anabel Borges, Lucia Chaves Simoes, 2020-06-04

Recent Trends in Biofilm Science and Technology helps researchers working on fundamental aspects of biofilm formation and control conduct biofilm studies and interpret results The book provides a remarkable amount of knowledge on the processes that regulate biofilm formation the methods used monitoring characterization and mathematical modeling the problems advantages caused by their presence in the food industry environment and medical fields and the current and emergent strategies for their control Research on biofilms has progressed rapidly in the last decade due to the fact that biofilms have required the development of new analytical tools and new collaborations between biologists engineers and mathematicians Presents an overview of the process of biofilm formation and its implications Provides a clearer understanding of the role of biofilms in infections Creates a foundation for further research on novel control strategies Updates readers on the remarkable amount of knowledge on the processes that regulate biofilm formation

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