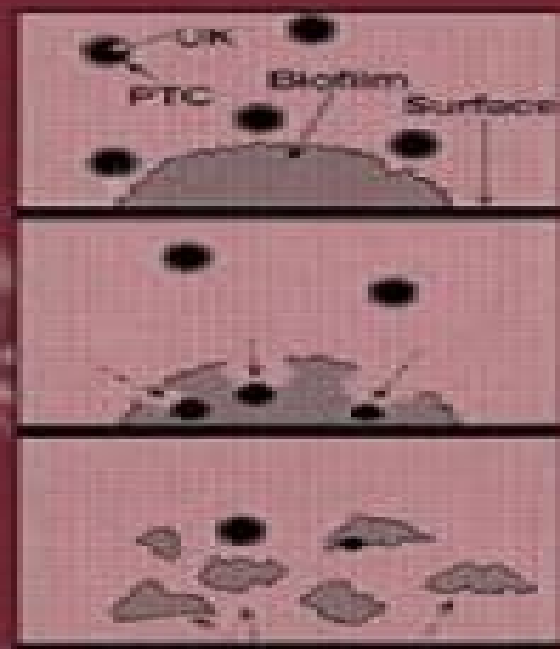


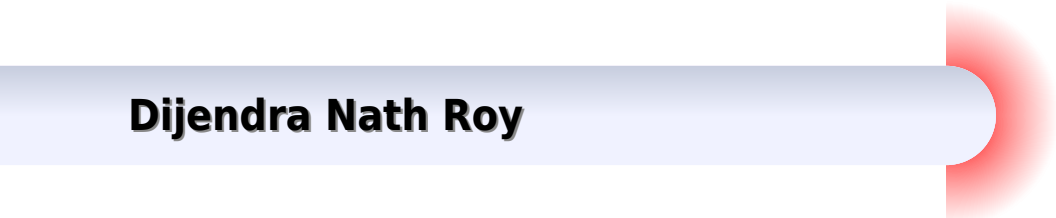
Biofilms: Recent Advances in their Study and Control

Edited by L.V. Evans



Biofilms Recent Advances In Their Study And Control

Dijendra Nath Roy



Biofilms Recent Advances In Their Study And Control:

Biofilms L V Evans,2003-09-02 Biofilms affect the lives of all of us growing as they do for example on our teeth as plaque on catheters and medical implants in our bodies on our boats and ships in food processing environments and in drinking and industrial water treatment systems They are highly complex biological communities whose detailed structure and functioning is only gradually being unravelled with the development of increasingly sophisticated technology for their study Biofilms almost always have a negative impact on human affairs flocs in sewage treatment plants are a major exception and a lot of research is being carried out to gain a better understanding of them so that we will be in a better position to control them This volume with contributions by international experts from widely diverse areas of this field presents a state of the art picture of where we are at present in terms of our knowledge of biofilms the techniques being used to study them and possible strategies for controlling their growth more successfully It should provide a valuable reference source for information on biofilms and their control for many years to come Recent Advances in Bacterial Biofilm Studies Liang Wang,Bing Gu,Li Zhang,Zuobin Zhu,2024-02-28 Bacterial biofilm is a complex structure with diverse bacterial cells in a highly organized and ordered group within a matrix of extracellular polymeric substances they produce Microbes attach to surfaces to develop biofilms a sophisticated process regulated by factors such as nutritional status and biotic abiotic surface features An established biofilm structure mainly comprises bacterial cells proteins nucleic acid and exo polysaccharides that are extracellular macromolecules excreted as tightly bound layers in microbes providing a perfect niche for bacteria to exchange genetic material between cells In addition bacterial cells in the matrix also communicate via quorum sensing which greatly impacts biofilm processes Under clinical circumstances bacterial biofilm shows great resistance to antibiotics disinfectants and body defense systems making it difficult for clinicians to eradicate and facilitate many infectious disease processes leading to chronic infections of patients with long term hospitalization and high mortality rates Therefore it is very important to understand the recent advances in forming regulating and eradicating biofilms in human infections to better prevent control and treat biofilm infections in humans Written by an international team of basic and clinical researchers the chapters of this book provide novel insights and advanced knowledge for life science researchers clinical researchers doctors and other interested readers on some of the latest developments in biofilms **A Complete Guidebook on Biofilm Study** Dijendra Nath Roy,2022-06-22 A Complete Guidebook on Biofilm Study has emphasized the biofilm related issues in the present context related to research and development For this purpose experimental design and relevant experimental protocols for the biofilm studies have been highlighted here In addition to that inhibitors from natural or synthetic sources against microbial biofilm development have been addressed This approach has been further substantiated by bioinformatics as well as nanotechnology based reports Both the image processing related to biofilm study and the characters of substratum associated with biofilm development have also been included for a better understanding of the beginners in this field Further

how biofilm helps and or hampers in food processing and waste management system that discussion has been considered in this book Similarly human benefits from biofilm and reverse of it have also been included considering host pathogen interaction immunity aspects and others Carrying huge resources information ideas in a compiled manner for biofilm study work Has highlighted how biofilm related experiment has to be designed based on protocols This book has focused majorly about biofilm related gene regulation along with the development of different inhibitors for therapeutic aspects This paradigm has been further discussed based on the nanotechnology and bioinformatics approach Biofilm studies related to waste management food processing and image processing which are newly upcoming have been emphasized in this book

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 *New and Future Developments in Microbial Biotechnology and Bioengineering: Microbial Biofilms* Mukesh Kumar Yadav, Bhim Pratap Singh, 2019-10-10 New and Future Developments in Microbial Biotechnology and Bioengineering Microbial Biofilms is divided into three sections microbial adhesion biofilms in medical settings microbial adhesion biofilms in agriculture and microbial adhesion biofilm in the environment and industry Chapters cover adhesion and biofilm formation by pathogenic microbes on tissue and on indwelling medical devices including sections on human infections microbial communication during biofilm mode of growth host defense and antimicrobial resistance and more Other sections cover the biofilms of agriculturally important and environmental friendly microbes including biofilm formation on plants in soil and in aquatic environments Finally the latest scientific research on microbial adhesion and biofilm formation in the environment and in industry is covered Provides an overview on the growth structure cell to cell interactions and control dispersal of bacterial and fungal of in vitro and in vivo biofilms Presents an overview on the microbial adhesion biofilm formation and structures of single species and multi species biofilms on human tissues medical devices agriculture environment and chemical industries Includes chapters on microbial biofilms of pathogenic microbes on human tissues and in medical indwelling devices Covers factors affecting microbial biofilm adhesion and formation **Sediment Dynamics and Pollutant Mobility in Rivers** Bernd Westrich, Ulrich

Förstner,2007-10-11 This is the first interdisciplinary book on the mobilization of nutrients and pollutants in the water phase due to hydrodynamic processes Coverage includes the formation of aggregates in turbulent water flocks and biofilms from organic reactions and the formation of new surfaces for re adsorption of dissolved pollutants The book gathers papers resulting from an International Symposium on Sediment Dynamics and Pollutant Mobility in River Basins in Hamburg Germany March 2006 Biofilm and Materials Science Hideyuki Kanematsu,Dana M. Barry,2015-04-09 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 **Biofilms and Veterinary Medicine** Steven L. Percival,Derek C. Knottenbelt,Christine A. Cochrane,2011-08-08 Biofilms are implicated in many common medical problems including urinary tract infections catheter infections middle ear infections dental plaque gingivitis and some less common but more lethal processes such as endocarditis and infections in cystic fibrosis However the true importance of biofilms in the overall process of disease pathogenesis has only recently been recognized Bacterial biofilms are one of the fundamental reasons for incipient wound healing failure in that they may impair natural cutaneous wound healing and reduce topical antimicrobial efficiency in infected skin wounds Their existence explains many of the enigmas of microbial infection and a better grasp of the process may well serve to establish a different approach to infection control and management Biofilms and their associated complications have been found to be involved in up to 80% of all infections A large number of studies targeted at the bacterial biofilms have been conducted and many of them are referred to in this book which is the first of its kind These clinical observations emphasize the importance of biofilm formation to both superficial and systemic infections and the inability of current antimicrobial therapies to cure the resulting diseases even when the in vitro tests suggest that they should be fully effective In veterinary medicine the concept of biofilms and their role in the pathogenesis of disease has lagged seriously behind that in human medicine This is all the more extraordinary when one considers that much of the research has been carried out using veterinary species in experimental situations The clinical features of biofilms in human medicine is certainly mimicked in the veterinary species but there is an inherent and highly regrettable indifference to the failure of antimicrobial therapy in many veterinary disease situations and this is probably at its most retrograde in veterinary wound management Biofilms and Veterinary Medicine is specifically focused on discussing the concerns of biofilms to health and disease in animals and provides a definitive text for veterinary practitioners medical and veterinary students and researchers **Gene Editing in Plants** Ashwani Kumar,Sudipti Arora,Shinjiro Ogita,Yuan-Yeu Yau,Krishnendu Mukherjee,2024-03-18 This book is a collection of information about applying CRISPR Cas systems for genome editing in plants The main focus of this book is to address the recent advances and future prospects of CRISPR Cas technology in crops Genome editing technology is important because it can be used to improve plant traits The earlier

genome engineering tools zinc finger nucleases ZFNs and TAL effector nucleases TALENs are complicated to design and not flexible The novel genome editor CRISPR Cas systems has advantages over ZFNs and TALENs The advantages are simple and easy to design precision in targeting and efficiency Due to its precision and simplicity the CRISPR Cas technology has rapidly become the most popular genome editing platform in life science fields CRISPR Cas technology has been used widely for human gene therapy to treat diseases and for plant breeding programs for crop improvement This book is of interest and useful to genome editing professionals plant breeders horticulturists field level extension workers nurserymen planters ecologists and valuable source of reference to the relevant researchers

Sustainable Green Chemical Processes and their Allied Applications Inamuddin,Abdullah Asiri,2020-05-30 Urbanization industrialization and unethical agricultural practices have considerably negative effects on the environment flora fauna and the health and safety of humanity Over the last decade green chemistry research has focused on discovering and utilizing safer more environmentally friendly processes to synthesize products like organic compounds inorganic compounds medicines proteins enzymes and food supplements These green processes exist in other interdisciplinary fields of science and technology like chemistry physics biology and biotechnology Still the majority of processes in these fields use and generate toxic raw materials resulting in techniques and byproducts which damage the environment Green chemistry principles alternatively consider preventing waste generation altogether the atom economy using less toxic raw materials and solvents and opting for reducing environmentally damaging byproducts through energy efficiency Green chemistry is therefore the most important field relating to the sustainable development of resources without harmfully impacting the environment This book provides in depth research on the use of green chemistry principles for a number of applications

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