

HYGIENICALLY RELEVANT BIOFILMS

Public Health in the 21st Century



ROK FINK

NOVA

Hygienically Relevant Biofilms

Roy Fink



Hygienically Relevant Biofilms:

Hygienically Relevant Biofilms Rok Fink, 2015 This book describes biofilms in the context of hygiene in food safety and hospital facilities starting with bacterial adhesion as an initial step of cell colonization followed by the growth and maturation of biofilms The main focus of this book is on biofilm prevention and control The resistance of bacteria to several antibiotics is a global public health problem not limited to hospital facilities but also to other sectors including the food industry This raises questions about whether effective cleaning and disinfection reduce the risk of food borne and hospital acquired illness Can the surface characteristics be treated to prevent bacterial adhesion and consequently the formation of biofilms Biofilms are complex communities of bacteria attached the surfaces with fully developed architecture and highly organized interactions A better understanding of the biofilm lifecycle with advanced strategies of physical chemical and biological actions would reduce the risk of infection The question is not whether the preventive and control measures will play a significant role in public health but rather what the implications of their use will be for hygiene in the food industry and hospital facilities

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

Biofilms Hans-Curt Flemming, Ulrich Szewzyk, Thomas Griebe, 2000-06-23 Until now techniques for studying biofilms the cellular colonies that live in drinking water systems wastewater operations even ground and surface water have been limited Yet during the last decade biofilms have become a critical element in water quality preservation systems a key component of wastewater treatment biological reactions and the subject of extensive microbiological inquiry An understanding of biofilm development structure and dynamics is one condition for improving water supplies and for addressing technical problems such as biofouling corrosion and bioweathering Biofilms Investigative Methods and Applications provides the first in depth assessment of current and experimental ways to study biofilms both in sample form and in situ It shows how sensors microscopy lasers and calorimetry among other tools can be used to obtain data on the morphology and metabolism of biofilms This text is the first to organize and examine the best methods for investigating biofilms It covers culture based methods and emerging nondestructive techniques It also shows how they can be used to characterize biofilms in a variety of manmade settings such as sewers wastewater plants and drinking water distribution systems as well as in karsts and groundwater sources In clarifying the way biofilms are studied the book offers new insights into these living films It also applies inquiry techniques to the many problems confronting the

environmental specialist corrosion control biofouling and the improvement of fixed reactors in wastewater treatment At the same time it explains technologies for the controlled growth of biofilms and shows how biofilms can be effectively monitored and subjected to quantitative analysis The technical information in *Biofilms Investigative Methods and Applications* is designed to be of use to engineers and researchers and to be helpful in the generation of electronic data *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 *Microbiology of Waterborne Diseases*, 2013-11-08 The second edition of *Microbiology of Waterborne Diseases* describes the diseases associated with water their causative agents and the ways in which they gain access to water systems The book is divided into sections covering bacteria protozoa and viruses Other sections detail methods for detecting and identifying waterborne microorganisms and the ways in which they are removed from water including chlorine ozone and ultraviolet disinfection The second edition of this handbook has been updated with information on biofilms and antimicrobial resistance The impact of global warming and climate change phenomena on waterborne illnesses are also discussed This book serves as an indispensable reference for public health microbiologists water utility scientists research water pollution microbiologists environmental health officers consultants in communicable disease control and microbial water pollution students Focuses on the microorganisms of most significance to public health including *E coli* cryptosporidium and enterovirus Highlights the basic microbiology clinical features survival in the environment and gives a risk assessment for each pathogen Contains new material on antimicrobial resistance and biofilms Covers drinking water and both marine and freshwater recreational bathing waters **Advances in Biofilm Science and Engineering** Ryan Jordan, Ursula Charaf, Diane Williams, 2004 Microbial biofilms provide challenges in many fields of science technology and engineering *Advances in Biofilm Science and Engineering* offers a state of the art review of new science about microbial biofilms in the areas of biotechnology healthcare and medicine The purpose of this text is to strengthen the biofilm information nucleus by offering six core discussions of established concepts in biofilm science The audience for this text is not just academic it is trade This book is for physicians industrial microbiologists product managers process engineers policy makers and public health officials The authors represent some of the brightest researchers in the field of biofilm science and engineering and comprise a small subset of the research community with a passion for bringing biofilm information to industrial and medical trade professionals Table of Contents Forward by Ryan Jordan Chapter 1 The History and Use of Heterotrophic Plate Counts in Water Systems by Anne Camper Center for Biofilm Engineering Montana

State University Chapter 2 Methods for Biofilm Study and Assays for Biofilm Susceptibility and Target Recognition Approaches to Deal with the Biofilm Mode of Life by Howard Ceri Merle E Olson D Storey and D Morck Biofilm Research Group and Biological Sciences University of Calgary Chapter 3 Extracellular Polymeric Substances by H C Flemming and J Wingender Gerhard Mercator University Duisburg Institute of Interfacial Biotechnology Department of Aquatic Microbiology Duisburg Germany Chapter 4 Biofilms and Antimicrobial Resistance Beyond Physiological and Chemical Elements by Peter Gilbert and Andrew McBain School of Pharmacy and Pharmaceutical Sciences University of Manchester Chapter 5 Diverse Mechanisms of Biofilm Formation by Lisa Friedman and Roberto Kolter Department of Microbiology and Molecular Genetics Harvard Medical School Chapter 6 Biofilm Formation and Control in Food Processing Environments by Amy C Lee Wong Department of Food Microbiology and Toxicology Food Research Institute University of Wisconsin Madison

Microbial Growth in Drinking Water Supplies Dick van der Kooij, Paul W. J. J. van der Wielen, Diego Rosso, Andrew Shaw, Dietrich Borchardt, Ralf Ibsch, Dirk Apgar, Jay Witherspoon, Dominic M. di Toro, Paul R. Paquin, Don Mavinic, Fred Koch, Emmanuelle Guillot, Jean-Francois Loret, Erhard Hoffmann, Hallvard Ødegaard, Francesc Hernandez-Sancho, Maria Molinos-Senante, 2013-09-14 Maintaining the microbial quality in distribution systems and connected installations remains a challenge for the water supply companies all over the world despite many years of research This book identifies the main concerns and knowledge gaps related to regrowth and stimulates cooperation in future research Microbial Growth in Drinking Water Supplies provides an overview of the regrowth issue in different countries and the water quality problems related to regrowth The book assesses the causes of regrowth in drinking water and the prevention of regrowth by water treatment and distribution Editors Dirk van der Kooij and Paul W J J van der Wielen KWR Watercycle Research Institute The Netherlands

Biofilms in the Dairy Industry Koon Hoong Teh, Steve Flint, John Brooks, Geoff Knight, 2015-08-31 In recent years the formation and impacts of biofilms on dairy manufacturing have been studied extensively from the effects of microbial enzymes produced during transportation of raw milk to the mechanisms of biofilm formation by thermophilic spore forming bacteria The dairy industry now has a better understanding of biofilms and of approaches that may be adopted to reduce the impacts that biofilms have on manufacturing efficiencies and the quality of dairy products Biofilms in the Dairy Industry provides a comprehensive overview of biofilm related issues facing the dairy sector The book is a cornerstone for a better understanding of the current science and of ways to reduce the occurrence of biofilms associated with dairy manufacturing The introductory section covers the definition and basic concepts of biofilm formation and development and provides an overview of problems caused by the occurrence of biofilms along the dairy manufacturing chain The second section of the book focuses on specific biofilm related issues including the quality of raw milk influenced by biofilms biofilm formation by thermotolerant streptococci and thermophilic spore forming bacteria in dairy manufacturing plants the presence of pathogens in biofilms and biofilms associated with dairy waste effluent The final section of the book looks at the

application of modelling approaches to control biofilms Potential solutions for reducing contamination throughout the dairy manufacturing chain are also presented Essential to professionals in the global dairy sector Biofilms in the Dairy Industry will be of great interest to anyone in the food and beverage academic and government sectors This text is specifically targeted at dairy professionals who aim to improve the quality and consistency of dairy products and improve the efficiency of dairy product manufacture through optimizing the use of dairy manufacturing plant and reducing operating costs

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Creating Healthy and Sustainable Buildings Mateja Dovjak, Andreja Kukec, 2019-05-28 The open access book discusses human health and wellbeing within the context of built environments It provides a comprehensive overview of relevant sources of literature and user complaints that clearly demonstrate the consequences of lack of attention to health in current building design and planning Current designing of energy efficient buildings is mainly focused on looking at energy problems and not on addressing health Therefore even green buildings that place environmental aspects above health issues can be uncomfortable and unhealthy and can lead to public health problems The authors identify many health risk factors and their parameters and the interactions among risk factors and building design elements They point to the need for public health specialists engineers and planners to come together and review built environments for human wellbeing and environmental sustainability The authors therefore present a tool for holistic decision making processes leading to short and long term benefits for people and their environment

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