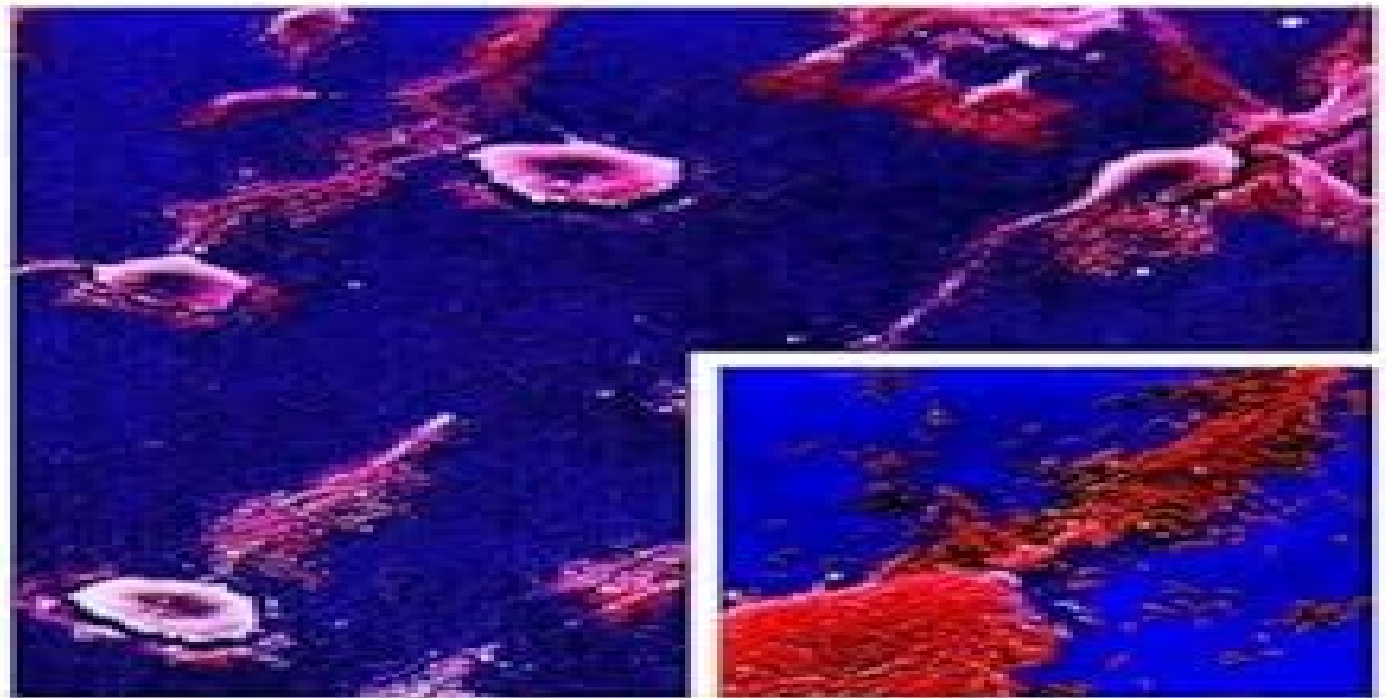


Edited by
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Community Structure and Co-operation in Biofilms Society for General Microbiology. Symposium, David G. Allison, Society for General Microbiology, 2000-10-23 The study of biofilm considers the close association of micro organisms with each other at interfaces and is relevant to a variety of disciplines including medicine dentistry bioremediation biofouling water technology engineering and food science Although the habitats studied differ widely some common elements exist such as method of attachment coadhesion and regulation of biofilm phenotype and architecture This book aims to distil the common principles of biofilm physiology and growth for all interested disciplines *Conflict and Cooperation in Microbial Societies* Ana E. Escalante, Michael Travisano, 2017-04-13 The most evident aspect of biodiversity is the variety of complex forms and behaviors among organisms both living and extinct Comparative molecular and physiological studies show that the evolution of complex phenotypic traits involves multiple levels of biological organization i.e. genes chromosomes organelles cells individual organisms species etc Regardless of the specific molecular mechanisms and details the evolution of different complex biological organizations share a commonality cooperation and conflict among the parts of the biological unit under study The potential for conflict among parts is abundant How then do complex systems persist given the necessity of cooperative behavior for their maintenance when the potential for conflict occurs across all levels of biological organization In this Research Topic and eBook we present ideas and work on the question how coexistence of biological components at different levels of organization persists in the face of antagonistic conflicting or even exploitative behavior of the parts The goal of this topic is in presenting examples of cooperation and conflict at different levels of biological organization to discuss the consequences that this tension have had in the diversification and emergence of novel phenotypic traits Exemplary cases are studies investigating the evolution of genomes formation of colonial aggregates of cells biofilms the origin and maintenance of multicellular organisms and the stable coexistence of multispecies consortia producing a cooperative product Altogether we hope that the contributions to this Research Topic build towards mechanistic knowledge of the biological phenomenon of coexistence in the face of conflict We believe that knowledge on the mechanisms of the origin and evolutionary maintenance of cooperation has implications beyond evolutionary biology such as novel approaches in controlling microbial infections in medicine and the modes by studies in synthetic biology are conducted when designing economically important microbial consortia **Molecular Biology and Cultural Heritage** C. Saiz-Jimenez, 2017-11-22 This book contains forty reviewed papers delivered at the International Congress on Molecular Biology and Cultural Heritage held in Seville March 2003 It is divided in four parts the first one presents the state of the art and reviews molecular techniques applied to the study of microbial communities colonizing monuments and cultural heritage assets Part two covers specific molecular techniques used in bioremediation studies part three includes an updated overview on on going bioremediation European Commission projects and part four presents selected bioremediation case studies from all over the world

Handbook of Water and Wastewater Microbiology Duncan Mara, Nigel J. Horan, 2003-08-07 Access to safe water is a fundamental human need and therefore a basic human right Kofi Annan United Nations Secretary General Edited by two world renowned scientists in the field The Handbook of Water and Wastewater Microbiology provides a definitive and comprehensive coverage of water and wastewater microbiology With contributions from experts from around the world this book gives a global perspective on the important issues faced in the provision of safe drinking water the problems of dealing with aquatic pollution and the processes involved in wastewater management Starting with an introductory chapter of basic microbiological principles The Handbook of Water and Wastewater Microbiology develops these principles further ensuring that this is the essential text for process engineers with little microbiological experience and specialist microbiologists alike Comprehensive selection of reviews dealing with drinking water and aquatic pollution Provides an understanding of basic microbiology and how it is applied to engineering process solutions Suitable for all levels of knowledge in microbiology from those with no background to specialists who require the depth of information Protected Land Douglas J.

Spieles, 2010-09-02 By many measures Earth's ecosystems are stressed Actually it may be more accurate to say that Earth's remaining ecosystems are stressed The fact is that most of the planet's biomes support only a fraction of the biological communities they once did primarily because humans have converted large areas of land to alternate uses More than two thirds of the global temperate forests half of the grasslands even a third of desert ecosystems have been conscripted for human uses like agriculture construction harvest and extraction Cultivation alone covers a quarter of the habitable terrestrial surface Aquatic ecosystems have not fared any better An estimated half of the world's wetlands are gone particularly those of coastal regions or on arable land About a fifth of the coral reefs and a third of the mangrove swamps of a century ago have been lost in just the last few decades The volume of water impounded by dams quadrupled over the same period it now far exceeds the volume of water in unimpeded rivers Millennium Ecosystem Assessment 2005 Mitsch and Gosselink 2007 So any assessment of ecosystem status is necessarily an analysis of fragments and remnants and many of these are degraded by one or more anthropogenic stressors **Biofilm Community Interactions, Chance Or Necessity?** Biofilm Club.

Meeting, Biofilm Club, 2001 **Extracellular Polymeric Substances - the Construction Material of Biofilms** Hans-Curt Flemming, A. Leis, 2001-03-31 Microbial extracellular polymeric substances EPS provide the structural matrix for all microbial aggregates such as biofilms flocs and sludge and are of great technical and ecological importance EPS provide and form the space between biofilm cells mediating both cohesion and adhesion They serve as a multipurpose functional matrix for microbial communities which allows the establishment of stable microconsortia The EPS matrix governs diffusional and convective mass transport because it occurs in various densities including void spaces such as pores and channels This creates different types of physico-chemical gradients providing habitats in which aerobic and anaerobic organisms can coexist in close proximity and largely independent of the conditions in the water phase Major aspects of EPS include

mechanical stability as in the case of biofouling when unwanted biofilms have to be removed and the stability of biofilms in bioreactors interaction with substrata in bioleaching biocorrosion and biodeterioration sorption capacity for dissolved and particulate substances biosorption representing both a sink and source of sorbed material enhanced resistance of biofilm organisms to biocides The 25 peer reviewed articles selected for these proceedings provide both a starting point for newcomers to the field and a state of the art survey for the more experienced With a diversity of approaches ranging from sophisticated microanalysis to industrial applications these papers provide a broad understanding of EPS from the viewpoints of microbiologists polymer scientists chemists and engineers and showing how EPS may be seen as the key to understanding and controlling all forms of microbial aggregates

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Steinbüchel,2001 The final volume of this encyclopedia addresses such general aspects as methods for the analysis of polymer properties and technical processing It also provides an overview of special applications in electronics aerospace medicine and pharmacy food packaging construction engineering Further topics included are biotechnological production of monomers for chemical polymer synthesis conversion of raw materials corrosion composting environmental impacts health issues legal ecological and economic aspects

Biofilms

L V Evans,2000-12-21 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

Freshwater Microbiology

David Sigeo,2005-01-24 Microbial diversity and freshwater ecosystems freshwater environments the influence of physico chemical conditions on microbial communities Freshwater environments the influence of physico chemical conditions on microbial communities Algae the major microbial biomass in freshwater systems Competition for light Inorganic nutrients uptake and cycling in freshwater systems Bacteria the main heterotrophic microorganisms in freshwater systems Viruses major parasites in the freshwater environment Fungi and fungal like organisms aquatic biota with a mycelial growth form Grazing activities in the freshwater environment the role of protozoa and invertebrates Eutrophication the microbial response to high nutrient levels

Annual Review of Microbiology L. Nicholas Ornston,2002-10 Recent work in microbial activity and interactions is collected here Contributors in botany microbiology immunology ecology and evolutionary biology report on work in areas such as lectin carbohydrate interactions during human invasion by the parasite Entamoeba histolytica bioterrorism the evolution of drug resistance in Candida albicans and transition metal transport in yeast Other topics discussed include genome remodeling in ciliated protozoa the molecular biology of the West Nile virus bacterial chromosome segregation metabolic control and yeast aging mechanisms of solvent tolerance in gram negative bacteria and structural themes in viral cell entry pathways Ornston is affiliated with Yale University Annotation copyrighted by Book News Inc Portland OR

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