

CRC REVIVALS

CRC Handbook of Laboratory Model Systems for Microbial Ecosystems

Volume I

Edited by
Julian W.T. Wimpenny



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Handbook Of Laboratory Model Systems For Microbial Ecosystems

M. H. F. Wilkinson, F. Schut



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Chemical Rubber Company (Cleveland, Ohio), 1988

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Microbiological Quality Assurance M.R.W.

Brown, 2018-01-18 Microbiological Quality Assurance A Guide Towards Relevance and Reproducibility of Inocula sheds light on the difficulties of obtaining results in the test tube that will be reproducible and relevant for a wide variety of tests This book explores the current state of research in this area and troubleshoots the problems that may be encountered in setting up appropriate cultures The text divides naturally into three sections growth conditions post growth conditions and applications This book serves as a valuable resource for clinical microbiologists pharmacologists and anyone doing in vitro experiments

Biofilms in Medicine, Industry and Environmental Biotechnology Piet Lens, V. O'Flaherty, A. P. Moran, P.

Stoodley, T. Mahony, 2003-04-30 Biofilms are of great practical importance for beneficial technologies such as water and wastewater treatment and bioremediation of groundwater and soil. In other settings biofilms cause severe problems for example in 65% of bacterial infections currently treated by clinicians particularly those associated with prosthetics and implants accelerated corrosion in industrial systems oil souring and biofouling. Until recently the structure and function of biofilms could only be inferred from gross measures of biomass and metabolic activity. This limitation meant that investigators involved in biofilm research and application had only a crude understanding of the microbial ecology physical structure and chemical characteristics of biofilms. Consequently opportunities for the exploitation and control of biofilms were very limited. The past decade has witnessed the development of several new techniques to elucidate the structure and function of biofilms. Examples include the use of molecular probes that identify different microbes in complex communities as well as their metabolic functions the use of microensors that show concentration gradients of key nutrients and chemicals the use of confocal laser scanning microscopy to describe the physical structure of biofilms and the development of a new generation of mathematical models that allow for the prediction of biofilm structure and function. However much progress remains to be made in efforts to understand control and exploit biofilms. This timely book will introduce its readers to the structure and function of biofilms at a fundamental level as determined during the past decade of research including Extracellular polymers as the biofilm matrix Biofilm phenotype differential gene expression interspecies signalling Biofilm ecology Biofilm monitoring Resistance of biofilms to antimicrobial agents and Biofilm abatement Biofilms in Medicine Industry and Environmental Technology offers a holistic and multi disciplinary description of the topic including biofilm formation and composition but also biofilm monitoring disinfection and control. All these aspects are presented from three points of views medical industrial and environmental biotechnological in a compact easy to read format. *Digital Image Analysis of Microbes* M. H. F. Wilkinson, F. Schut, 1998-06-08 Die Entwicklung digitaler Bildverarbeitung gekoppelt an Mikroskopsysteme erm glichte in neuerer Zeit einen zunehmenden Einsatz der Bildanalyse von Mikroben ein wertvolles Hilfsmittel f r das Verst ndnis der Strukturen des Verhaltens und der Diversit t mikrobieller Populationen. Dieser aktuelle interdisziplin r angelegte Abri der digitalen Bildverarbeitung wurde von einem internationalen Team von Mikrobiologen Biotechnologen und Computerwissenschaftlern verfa t. 04 98 **Microbial Biofilms** Hilary M. Lappin-Scott, J. William Costerton, 2003-09-18 Biochemistry and ecology of biofilms from industrial medical and other viewpoints **Directory of Microbicides for the Protection of Materials** Wilfried Paulus, 2005-01-17 This two part book combines the insights of world experts on Microbicides with detailed a detailed inventory of Microbicide Data. The combination of the two parts in one book is unique and has produced the most authoritative information in the field. **Microbial Growth Dynamics** Robert K. Poole, Michael J. Bazin, C. William Keevil, 1990 This volume features contributions from internationally known experts who report on a wide range of current research in microbial growth. It includes information on the growth of mycelia biophysics of

wall growth diffusion limited growth energetics of growth at low growth rates kinetics of secondary metabolite production and microbial population stability and optimization strategies With important applications in industry and biotechnology this book offers effective strategies for stimulating or limiting growth of microbial populations *Advances in Microbial Ecology* K.C. Marshall, 2012-12-06 *Advances in Microbial Ecology* was established by the International Committee on Microbial Ecology ICOMME to provide a vehicle for in depth critical and even provocative reviews to emphasize recent trends in the important field of microbial ecology *Advances in Microbial Ecology* is now recognized as a major source of information and inspiration both for practicing and for prospective microbial ecologists Most reviews appearing in *Advances* have been prepared by leaders in particular areas following invitations issued by the Editorial Board Individuals are encouraged however to submit outlines of unsolicited contributions to any member of the Editorial Board for consideration for publication in *Advances* With the publication of Volume 12 of *Advances in Microbial Ecology* there will be a change of Editor and the entire Editorial Board The current Editor wishes to take this opportunity to thank the present Editorial Board Ron Atlas Bo Barker Jørgensen and Gwyn Jones as well as past members of the Board for their assistance and encouragement over the years The new Editor of *Advances in Microbial Ecology* will be Gwyn Jones with Bernhard Schink Warwick F Vincent and David M Ward as members of the Editorial Board The outgoing Board wish the new Board every success in continuing the traditions established by Martin Alexander the founding Editor of *Advances in Microbial Ecology* The topics featured in Volume 12 of *Advances* include some related to the metabolic activities of bacteria namely bioremediation of oil spills by R M Atlas and R *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 t **Plant-Microbe Interactions and Biological Control** Greg Boland, Liana Bolis, 1998-01-05 Discusses the critical role of host pathogen interactions in developing new and alternative biocontrol agents that promote plant health and disease resistance in crop pathosystems Describes state of the art as well as future technologies leading to more effective biological control programs *Handbook of Methods in Aquatic Microbial Ecology* Paul F. Kemp, Jonathan J. Cole, Barry F. Sherr, Evelyn B. Sherr, 2018-05-02 *Handbook of Methods in Aquatic Microbial Ecology* is the first comprehensive compilation of 85 fundamental methods in modern aquatic microbial ecology Each method is presented in a detailed step by step format that allows readers to adopt new methods with little difficulty The methods represent the state of the art and many have become standard procedures in microbial research and environmental assessment The book also presents practical advice on how to apply the methods It will be an indispensable reference for marine and freshwater research laboratories environmental assessment laboratories and industrial research labs concerned with microbial measurements in water 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

Advances in Applied Microbiology, 2003-12-18 Advances in Applied Microbiology offers intensive reviews of the latest techniques and discoveries in this rapidly moving field The editors are recognized experts and the format is comprehensive and instructive Methods in Microbiology, 1990-10-23 Methods in Microbiology **Microbiology of Landfill Sites** Eric

Senior, 2020-01-29 This book was originally published in 1990 and was the first text to consider the definitive fundamental science of landfill biotechnology Since then major research initiatives particularly in the U K and South Africa have resulted in considerable advancement in our knowledge of landfill microbiology The Second Edition details this progress Text considers the latest findings in landfill leachate treatment co disposal and fundamental microbiology It brings together the expertise of the immediate complementary but often disparate disciplines of soil science environmental engineering applied mathematics and land reclamation and focuses on the common goal of the scientific design and management of landfill sites The book also includes effective laboratory models and selected approaches Acetogenesis Harold L. Drake, 2012-12-06 This is the first volume to provide comprehensive coverage of acetogenesis Leading experts present state of the art research investigating the structure and function relationship of key acetogenic processes including synthesis of ATP the conservation of energy and intersecting metabolic pathways It explores the interactions between acetogenic bacteria and the flow of matter and energy giving the reader an integrated perspective on acetogens and the environment It presents landmark advances in the biochemistry phylogeny and molecular biology of acetogens with lucid explanations of background material making this volume accessible to newcomers to the subject It discusses diverse functions of acetogenesis in soils and gastrointestinal tracts as well as current and potential commercial and environmental applications This volume will serve as a broad and in depth review of basic and emerging issues in acetogenesis for microbiologists molecular biologists biochemists and ecologists and as a stimulus for future research

Oral Biofilms in Health and Disease Hyun (Michel) Koo, Nicholas S. Jakubovics, Bastiaan P. Krom, 2025-07-01 This book presents state of the art information on the fundamentals of oral biofilm formation The reader learns about adhesion and early colonization of polymicrobial communities the biochemistry and function of the oral biofilm matrix cooperative interactions as well as antagonism among microbes within oral biofilms The past decade has brought major technological advancements in molecular and microscopy technologies changing our understanding of oral biofilms in health and disease International experts comprehensively describe key strategies and techniques for studying oral biofilms in vitro ex vivo and in vivo including imaging model systems and omics

approaches In addition the book provides an up to date overview of oral biofilms and associated diseases Innovative antibiofilm strategies are also addressed These span from eradication or modulation of oral biofilms as a prevention strategy and nonantibiotic or antibiotic supplementing approaches such as quorum sensing inhibition nanoparticles and pre and probiotics The book is a useful introduction to the field for early career scientists interested in basic and translational research on oral biofilms It is also an interesting read for advanced scientists and clinicians working in dentistry and oral health research as it gives them a broader view of the topic beyond their area of specialization

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