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Gianfranco Donelli *Editor*

Microbial Biofilms

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Microbial Biofilms Gianfranco Donelli, 2016-08-23 The discovery that most of the chronic infections in humans including the oral lung vaginal and foreign body associated infections are biofilm based has prompted the need to design new and properly focused preventive and therapeutic strategies for these diseases Microbial Biofilms Methods and Protocols provides a detailed description of the currently available methods and protocols to investigate bacterial and fungal biofilms exhaustively illustrated and critically annotated in 25 chapters written by authors well known for their experience in the respective fields The book has joined together microbiologists and specialists in infectious diseases hygiene and public health involved in exploring different aspects of microbial biofilms as well as in designing new methods and or developing innovative laboratory protocols Written in the successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible protocols and notes on troubleshooting and avoiding known pitfalls Authoritative and easily accessible Microbial Biofilms Methods and Protocols presents readers with the most established and validated experimental procedures to investigate microbial biofilms Methods in Aquatic Microbiology Tony Gutierrez, Frederic Coulon, Terry John McGenity, 2023-12-11

Concepts and Techniques in OMICS and System Biology Asmat Farooq, Sajad Majeed Zargar, Parvaze Ahmad Sofi, Jebi Sudan, Uneeb Urwat, Khursheed Hussain, 2024-08-13 Concepts and Techniques in OMICS and Systems Biology provides a concise and lucid account on the technical aspects of omics system biology and their application in fields of different life science With a strong focus on the fundamental principles understanding of metabolomics ionomics and system biology the book also gives an updated account on technical aspects of omics and system biology Since both omics and systems biology fields are fast advancing filed of biological sciences its significance and applications need to be understood from the baseline In 10 chapters Concepts and Techniques in OMICS and Systems Biology introduces the reader to both Proteomics Metabolomics and Ionomics and System Biology the technical applications describes both the software in for proteomics as metabolomic enumeration and preludes Omics technologies and their applications The chapters are designed in a well defined chronology such that readers will understand the concepts and techniques involved in omics and system biology This compilation will be ideal reading material for students researchers and people working in the industries related to biological sciences Provides an in depth explanation of fundamental principles regarding the understanding of metabolomics ionomics and system biology Gives updated account on technical aspects of omics and system biology Includes unique content in its theoretical background technical approaches and advancements made in omics and systems biology

Glycoprotein Methods and Protocols Anthony P. Corfield, 2007-10-26 The mucins mucus glycoproteins have long been a complex corner of glycoprotein biology While dramatic advances in the separation structural analysis biosynthesis and degradation have marked the progress in general glycoprotein understanding the mucins have lagged behind The reasons for

this lack of progress have always been clear and are only now being resolved The mucins are very large molecules they are difficult to separate from other molecules present in mucosal secretions or membranes they are often degraded owing to natural protective functions or to isolation methodology and their peptide and oligosaccharide structures are varied and complex Understanding these molecules has demanded progress in several major areas Isolation techniques that protect the intact mucins and allow dissociation from other adsorbed but discrete molecules needed to be developed and accepted by all researchers in the field Improved methods for the study of very large molecules with regard to their aggregation and polymerization were also needed Structural analysis of the peptide domains and the multitude of oligosaccharide chains was required for smaller sample sizes for multiple samples and in shorter time In view of these problems it is perhaps not surprising that the mucins have remained a dilemma of obvious biological importance and interest but very difficult to analyze

Focus on Bacterial Biofilms Theerthankar Das,2022-11-02 Bacterial biofilms are colonies of bacterial cells embedded in their self produced matrix composed of polysaccharides DNA and proteins They protect bacterial cells against antibiotics antibacterial agents soaps and detergents and shear stress Some of the most common biofilm associated infections in humans include urinary tract infections infection of wounds and surgical sites diabetic foot ulcers dental caries tooth decay and gingivitis gum inflammation ventilator associated infections sinusitis microbial keratitis secondary infection related to Covid 19 and other viral infections and so on Bacterial resistance to common antibiotics e g penicillin gentamycin erythromycin ciprofloxacin etc is driving us to a catastrophic failure of our health systems Strategies to develop novel antibacterial agents and technology must be prioritized to combat and eradicate biofilms and their associated challenges This book provides a comprehensive overview of biofilms with chapters on bacterial virulence factors quorum sensing in bacteria antimicrobial resistance in bacteria strategies to develop new antibacterial agents and much more Biofilm Associated Livestock Diseases and their Management Dibyajit Lahiri,Moupriya Nag,Debasmita Bhattacharya,Rina Rani Ray,2025-04-08 The book discusses biofilms and adherent communities of microorganisms that play a significant role in livestock associated infections It explores the characteristics formation and consequences of biofilms in various livestock species and explains their involvement in diseases like mastitis Johne s disease caseous lymphadenitis and more It also explains intricate aspects of biofilm related challenges such as virulence antibiotic resistance quorum sensing and inter species communication The book then explores the strategies for combatting biofilm associated infections encompassing phytomedicines novel antimicrobials and nanomedicines This book serves as a great resource for researchers veterinary practitioners and students by addressing these critical issues and providing a comprehensive understanding of biofilm dynamics in livestock infections fostering improved diagnosis and treatment methodologies **Bacterial Pathogenesis** Pontus Nordenfelt,Mattias Collin,2023-05-31 This detailed volume presents a diverse set of methodological approaches designed to improve our understanding of bacterial infections from a wide range of bacterial species Beginning with biofilms and subcellular

compartments the book explores transcriptional analysis methods for studying plasmid dynamics and tools for phylogenetic analysis of bacterial genomes as well as bacterial effector proteins interfering with host systems host response analysis and in vivo and in vitro infection models Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Bacterial Pathogenesis Methods and Protocols Second Edition is a vital resource for researchers in the area of infection biology as well as but not limited to those working in the fields of microbiology immunology structural biology molecular biology genetics imaging and computational study

Metaproteomics Carlo Salerno, 2024-06-28 This volume provides references for methods about the proteomics of microbial communities also called metaproteomics Chapters guide readers first through specific protein extractions from different environments and or ecological niches crowded by heterogeneous microbial communities then deepening the possible complete metaproteomic workflows in several situations or conditions Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Metaproteomics Methods and Protocols aims to ensure successful results in the further study of this vital field

Bacterial Amyloids Véronique Arluison, Frank Wien, Andrés Marcoleta, 2022-08-11 This detailed volume introduces different methods to assess the structure and folding of bacterial amyloids and analyze their functions either in vitro or in vivo Despite their initial association with neurodegenerative diseases there is now increasing evidence of alternative roles for amyloids with beneficial aspects for cells In particular prokaryotes use amyloids as functional assemblies where they are key players in the cell's physiology Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and up to date Bacterial Amyloids Methods and Protocols is an ideal guide for experts and novices alike to further explore these crucial protein assemblies

Metagenomics Wolfgang R. Streit, Rolf Daniel, 2022-10-28 This volume provides up to date and novel techniques for various screening technologies currently used in metagenomics and related areas Starting with DNA RNA isolation from environmental samples the book continues by delving into areas such as current methods used to isolate DNA and construct metagenomic libraries establishment of metagenome libraries in non E coli hosts and topics like function driven mining of metagenomic DNA screening and analyzing protocols for a wide array of different genes encoding enzymes bacterial viruses and much more Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical

Metagenomics Methods and Protocols Third Edition provides a comprehensive collection of up to date metagenome protocols and tools for the recovery of many major types of biocatalysts and allows for the easy setup of these screens in microbiology laboratories

Foodborne Bacterial Pathogens Arnaud Bridier, 2024-09-05 This updated volume presents a compilation of various representative techniques and approaches currently used to study bacterial foodborne pathogens Chapters guide the reader through bacterial pathogen detection and quantification in food molecular phenotypic metabolic characterization of food pathogens and ecology of foodborne bacterial pathogens Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge Foodborne Bacterial Pathogens Methods and Protocols Second Edition aims to ensure successful results in the further study of this vital field

Multispecies Biofilms Karishma S. Kaushik, Sophie E. Darch, 2022-12-18 In an age of antibiotic resistant infections the study of biofilms is increasingly important Microbes more than often exist in complex multi species or polymicrobial communities making infections difficult to detect diagnose and treat Given the increased focus on studying biofilms in research and laboratory settings particularly under conditions that closely mimic the clinical state it is important to get an overview of the recent methods model systems and tools being developed and employed in this context This book offers readers the opportunity to learn more about current methods being used in the investigation of multi species biofilms both in vivo and in vitro For this the book highlights new technologies built and designed for the study of multiple species within biofilm communities including those that can be leveraged for the evaluation of antimicrobial treatment approaches The application of these state of the art techniques to further our understanding of multi species biofilms will be discussed and the reader will learn how the clinical microenvironment and the development of biofilm communities are considered when developing such tools With cutting edge contributions from experts in the respective domains this book will benefit translational and basic research scientists as well as clinicians and is an informative resource for educators and their students

PCR Lucília Domingues, 2023-08-22 This second volume focuses on PCR methods and PCR application specificities to the biotechnology and bioengineering field New and updated chapters detail real time PCR protocols synthetic biology applications pathogen detection microfluidics digital multiplex detection recent advances Written in the highly successful Methods in Molecular Biology series format chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and key tips on troubleshooting and avoiding known pitfalls Authoritative and cutting edge PCR Methods and Protocols Second Edition aims to be a useful and practical guide to new researchers and experts looking to expand their knowledge

Biotechnology of Extremophiles: Pabulo H Rampelotto, 2016-04-27 Aimed at research scientists and biotechnologists this book is an essential reading for those working with extremophiles and their potential biotechnological application Here we provide a comprehensive and reliable

source of information on the recent advances and challenges in different aspects of the theme Written in an accessible language the book is also a recommended as reference text for anyone interested in this thriving field of research Over the last decades the study of extremophiles has provided ground breaking discoveries that challenge our understanding of biochemistry and molecular biology In the applied side extremophiles and their enzymes have spawned a multibillion dollar biotechnology industry with applications spanning biomedical pharmaceutical industrial environmental and agricultural sectors Taq DNA polymerase which was isolated from *Thermus aquaticus* from a geothermal spring in Yellowstone National Park is the most well known example of the potential biotechnological application of extremophiles and their biomolecules Indeed the application of extremophiles and their biologically active compounds has opened a new era in biotechnology However despite the latest advances we are just in the beginning of exploring the biotechnological potentials of extremophiles

Biofilms ,2023-07-12 Biofilms Volume 53 in the ongoing Methods in Microbiology series highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics including Monospecies and polymicrobial biofilms in static and flow environment Methods used to study biofilms Spatial analysis of bacterial biofilms Biofilm grown in bioreactors Single cell analysis of subpopulations within biofilms using microscopy flow cytometry and imaging flow cytometry Microscopy analysis of biofilm mineral interactions or mineral formation within biofilms Bacterial biofilms as an essential component of rhizosphere plant microbe interactions Studying Gene Expression in Biofilms and more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Methods in Microbiology series Updated release includes the latest information on biofilms

Archaea Sébastien Ferreira-Cerca,2022-09-20 This volume provides an overview of well established methods optimized for diverse archaeal model organisms and is a source of protocols facilitating access to the molecular and cellular biology characterization of these fascinating organisms Chapters are divided into five parts detailing available genetic tools molecular and cellular biology methods strategies to study the ecophysiology of archaea and classroom protocol Each main thematic part is also introduced by future oriented and authoritative primers Written in the format of the highly successful Methods in Molecular Biology series each chapter includes an introduction to the topic lists necessary materials and reagents includes tips on troubleshooting and known pitfalls and step by step readily reproducible protocols Authoritative and cutting edge Archaea Methods and Protocols aims to be a foundation for future studies and to be a source of inspiration for new investigations in the field

Streptococcus suis Jesús Arenas Busto,2024-06-17 This volume covers the classic and new techniques used to study the zoonotic pathogen *Streptococcus suis* The chapters in this book cover are organized in four sections and cover topics such as techniques for cultivation isolation typing of *S suis* biofilm formation and genetic manipulation analysis of antibiotic resistance and transference detection in pigs and infection models and evaluation of economic impact and prevention Written in the highly successful Methods in Molecular Biology series format chapters

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Microbial Biofilms Chaminda Jayampath Seneviratne, 2017-07-12 *Microbial Biofilms Omics Biology Antimicrobials and Clinical Implications* is a comprehensive survey of microbial biofilms and their role in human health and disease with contributions from world renowned experts in molecular microbiology proteomics genomics metabolomics and infectious diseases The book is intended to serve as a guide for students as well as a reference for researchers clinicians and industry professionals The chapters cover bacterial and fungal microbiomes and the latest omics techniques organized in a clear and up to date manner One of the highlights of this book is the comprehensive information on omics of microbial biofilms The chapters dedicated to metagenomics proteomics and metabolomics are designed to provide a simple and holistic review of the current knowledge and the applications of these techniques in the field of microbial biofilms In addition to introductory chapters on microbial biofilms and their clinical implications subsequent chapters delve into oral biofilms their composition and metagenomic diversity Thereafter mechanisms of drug resistance in microbial biofilms are reviewed as well as the proteomic and metabolomic characterization of this resistance The book includes a comprehensive discussion of persister cells and host microbial interactions on mucosal surfaces Finally the book concludes with a summary of novel therapeutic approaches for biofilms such as synbiotics and biogenics

Microbial Metabolomics David J. Beale, Konstantinos A. Kouremenos, Enzo A. Palombo, 2016-12-05 This book brings together contributions from global experts who have helped to facilitate the exciting and rapid advances that are taking place in microbial metabolomics The main application of this field is in clinical and veterinary microbiology but there is a great potential to apply metabolomics to help to better understand complex biological systems that are dominated by multiple species microbial populations exposed to changing growth and nutritional conditions In particular environmental e g water soil food e g microbial spoilage food pathogens and agricultural and industrial applications are seen as developing areas for microbial metabolomics As such the book includes contributions with clinical environmental and industrial perspectives

The Bacterial Cell Wall Hung Ton-That, 2023-10-10 This detailed volume explores methods currently used to investigate the cell wall of various bacterial species and pathogens By using a combination of genetic molecular biochemical and cytological techniques the protocols address many fundamental questions involving the composition biosynthesis and regulation of bacterial peptidoglycan Written for the highly successful *Methods in Molecular Biology* series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step and readily reproducible laboratory protocols as well as tips for troubleshooting and avoiding known pitfalls Authoritative and practical *The Bacterial Cell Wall Methods and Protocols* provides current and future researchers with a compilation of many of the most important and useful procedures in a single resource

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