

FEMS Symposium No. 57

THE BIOLOGY OF
ACINETOBACTER

Taxonomy, Clinical Importance,
Molecular Biology, Physiology,
Industrial Relevance

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Biology Of Acinetobacter Taxonomy Clinical Importance Molecular Biology Physiology And Industrial Relevance

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The Biology of Acinetobacter K.J. Towner, E. Bergogne-Bérézin, C.A. Fewson, 2013-11-11 The 1st International Workshop on Acinetobacter was held on 6th September 1986 in Manchester England in association with the 14th International Congress of Microbiology That occasion was so well attended and productive that there were soon discussions about how when and where the next meeting should be held This time however there was sufficient confidence to think of a more substantial meeting and to plan for the proceedings to be published It emerged that there was wide agreement that the time was ripe to take stock of the entire biology of Acinetobacter its occurrence and taxonomy its molecular biology biochemistry and physiology its clinical importance and its industrial and commercial applications The 2nd International Workshop on Acinetobacter took place from 6th to 7th September 1990 at the Institut Pasteur Paris and was sponsored by the Federation of European Microbiological Societies There were about 100 participants from 19 countries The backbone of the meeting consisted of 23 plenary lectures There were 28 posters and the meeting closed with a general discussion which went on long after the official finishing time despite all the counter attractions of a sunny Parisian Friday afternoon Indeed discussions continued while cruising along the Seine and while dining at the top of the Tour Montparnasse However the vitality and usefulness of even the most successful meeting is difficult to transmit by the printed word

New Approaches for the Generation and Analysis of Microbial Typing Data L. Dijkshoorn, K.J. Towner, Mark J Struelens, 2001-07-10 Rapid molecular identification and typing of micro organisms is extremely important in efforts to monitor the geographical spread of virulent epidemic or antibiotic resistant pathogens It has become a mainstay of integrated hospital infection control service In addition numerous industrial and biotechnological applications require the study of the diversity of organisms Conventional phenotypic identification and typing methods have long been the mainstay of microbial population and epidemiological studies but such methods often lack adequate discrimination and their use is normally confined to the group of organisms for which they were originally devised Molecular fingerprinting methods have flourished in recent years and many of these new methods can be applied to numerous different organisms for a variety of purposes Standardisation of these methods is vitally important In addition the generation of large numbers of complex fingerprint profiles requires that a computer assisted strategy is used for the formation and analysis of databases The purpose of this book is to describe the best fingerprinting methods that are currently available and the computer assisted strategies that can be used for analysis and exchange of data between laboratories This book is dedicated to the memory of Jan Ursing 1926 2000 Swedish microbiologist taxonomist and philosopher taxonomy is on the borders of philosophy because we do not know the natural continuities and discontinuities

Encyclopedia of Food Safety, 2013-12-12 With the world's growing population the provision of a safe nutritious and wholesome food supply for all has become a major challenge To achieve this effective risk management based on sound science and unbiased information is required by all stakeholders including the food industry

governments and consumers themselves In addition the globalization of the food supply requires the harmonization of policies and standards based on a common understanding of food safety among authorities in countries around the world With some 280 chapters the Encyclopedia of Food Safety provides unbiased and concise overviews which form in total a comprehensive coverage of a broad range of food safety topics which may be grouped under the following general categories History and basic sciences that support food safety Foodborne diseases including surveillance and investigation Foodborne hazards including microbiological and chemical agents Substances added to food both directly and indirectly Food technologies including the latest developments Food commodities including their potential hazards and controls Food safety management systems including their elements and the roles of stakeholders The Encyclopedia provides a platform for experts from the field of food safety and related fields such as nutrition food science and technology and environment to share and learn from state of the art expertise with the rest of the food safety community Assembled with the objective of facilitating the work of those working in the field of food safety and related fields such as nutrition food science and technology and environment this work covers the entire spectrum of food safety topics into one comprehensive reference work The Editors have made every effort to ensure that this work meets strict quality and pedagogical thresholds such as contributions by the foremost authorities in their fields unbiased and concise overviews on a multitude of food safety subjects references for further information and specialized and general definitions for food safety terminology In maintaining confidence in the safety of the food supply sound scientific information is key to effectively and efficiently assessing managing and communicating on food safety risks Yet professionals and other specialists working in this multidisciplinary field are finding it increasingly difficult to keep up with developments outside their immediate areas of expertise This single source of concise reliable and authoritative information on food safety has more than ever become a necessity

The Genus Aspergillus Keith A. Powell, Annabel Renwick, John F. Peberdy, 2013-06-29 Proceedings of a symposium held in Canterbury United Kingdom April 5 8 1993

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 The Microbiology of Activated Sludge Robert J. Seviour, L. Blackall, 2012-12-06 This book has been a long time in preparation Initially it grew out of our frustrating attempts over the past ten years to identify the filamentous bacteria seen in large numbers in most activated sludge plants and the realization that we know very little about them and the other microbial populations in these systems Unfortunately this book does not provide many answers to the problems these filamentous bacteria can cause but we hope it might encourage microbiologists and engineers to communicate more with each other and to spend some time trying to understand the taxonomy ecology and physiology of activated sludge microbes It is now very timely for example to try to provide these filamentous bacteria with proper taxonomically valid names and to determine their correct place in bacterial classifications This book is not meant to compete directly with the books by Gray 1989 1990 nor the excellent manual published by Jenkins and coworkers 1993b which has been invaluable to us and others trying to identify filamentous bacteria Wanner's book 1994a also provides an excellent account of the problems of bulking and foaming caused by filamentous bacteria These publications and others by Eikelboom's group have made an enormous contribution to the study of filamentous bacteria and will continue to do so **Molecular Pathogenesis of Gastrointestinal Infections** T. Wadström, P. Helena Mäkelä, A.M. Svennerholm, H. Wolf-Watz, 2013-03-08 The meeting that provided the material for this book was the 58th Symposium of the Federation of European Microbiological Societies FEMS entitled MOLECULAR PATHOGENESIS OF GASTROINTESTINAL INFECTIONS which was held in Helsingør Denmark from 2nd to 4th September 1990 The aim of this meeting was to bring together scientists from a range of disciplines microbiology cell biology molecular biology and immunology to consider how microbes including parasites colonize and infect the gastrointestinal tract The programme was designed to focus particular attention on the range of strategies whereby enterovirulent bacteria and parasites colonize the gastrointestinal mucin layer how they adhere to and penetrate the epithelial layer by entering the cells or passing between them and how various protein toxins may facilitate these processes Speakers were especially encouraged to highlight the recent expansion in our knowledge of the molecular mechanisms by which enterotoxigenic and enteropathogenic *Escherichia coli* shigellae salmonellae and *Yersinia enterocolitica* cause intestinal disease There were also discussions of recently discovered gastrointestinal pathogens such as *Clostridium difficile* and *Helicobacter pylori* as well as accounts of how virulent determinants can be used to develop new diagnostic methods based on DNA gene probes and the polymerase chain reaction PCR These presentations provided the basis for the chapters in this book **Bacterial Diversity and Systematics** F.G. Priest, Alberto Ramos-Cormenzana, B.J. Tindall, 2012-12-06 Bacterial taxonomy as a specialized discipline is practised by a minority but the applications of taxonomy are important to most if not all microbiologists It is the implementation of taxonomic ideas and practises which gives rise to identification and typing systems procedures for the

analysis and characterization of biodiversity hypotheses about the evolution of micro organisms and improved procedures for the isolation and implementation of bacteria in biotechnological processes Without taxonomic theory providing a sound basis to these many facets of microbiology there would be severe problems faced by many scientists working with micro organisms Taxonomy comprises three sequential but independent processes classification nomenclature and identification The first two stages are the prime concern of the specialist taxonomist but the third stage should result in identification schemes of value to all microbiologists As the classification and identification of micro organisms improves largely due to the introduction of new technologies so does its contribution to the subject as a whole It therefore seemed timely to hold a conference in the autumn of 1993 devoted to microbial identification Such a topic could not be addressed without some reference to the enabling discipline of classification but the principal aims were to assess improvements in identification and typing and how these were benefiting microbiological topics ranging from ecological and biotechnological studies of extremophilic bacteria to the use of pyrolysis mass spectrometry in epidemiology The meeting which was held in Granada Spain was supported by FEMS FEMS Symposium No **Molecular Recognition in Host-Parasite Interactions** Timo K. Korhonen, Tapani Hovi, P. Helena Mäkelä, 2012-12-06 A very early step in microbial colonization and pathogenesis is that involving recognition of the host by the microbe In the final analysis such recognition is due to interaction between specific molecules on the two sides without which host and microbe would ignore each other It is therefore exciting to learn the rules that govern host microbe interaction at to a large extent determines whether or not we are infected by the molecular level which influenza virus leishmanias staphylococci and other pathogens This book is a compendium of the addresses delivered at a symposium on molecular interaction at Porvoo Finland in August 1991 Realizing that there are no a priori differences in receptor recognition in viruses eukaryotic parasites and bacteria we freely intermingled these microbes at the symposium and in this book We found the interdisciplinary discussions and comparisons both educative and stimulating Thus the book is divided into parts that focus on host cell receptors on microbial recognition molecules and molecules that mediate microbial interaction with a host cell receptor and briefly on the molecular events that follow Although many microbes and many cellular receptors are missing from the book owing to the limited duration and size of the symposium the articles presented here constitute an impressive body of examples of how initial host microbe interaction can come about We believe that as such the book is a useful and interesting overview of the mechanisms and principles involved in these interactions

Genetics and Product Formation in Streptomyces Simon Baumberg, Hans Krügel, Dieter Noack, 2012-12-06 The Streptomycetes are industrially widely used microorganisms due to their ability to produce numerous different chemical compounds These show very varied effects upon other living systems and result from profound and subtle biochemical and morphological differentiation during the streptomycete life cycle It is therefore not surprising that research on the genetics of antibiotic biosynthesis and differentiation in this group is currently progressing rapidly in many countries Intimately

connected with the production of antibiotics is resistance to them analysis of this is giving further information about the origin and evolution of this class of genes and their hypothesized spread among other microorganisms Another interesting feature of the Streptomyces group is their mycelial growth Also their ecologically important utilization of high molecular weight compounds requires enzymes to be transported outside the cell to hydrolyze non diffusible substrates Finally we have as yet limited understanding of the various mechanisms of genome rearrangement observed in some of these species deletions and or amplifications of enormous amounts of DNA can occur without seriously affecting the viability of the organism under laboratory conditions The present volume which includes contributions addressing the above subjects and others originates from a meeting on Genetics and Product Formation in Streptomyces sponsored by the Federation of European Microbiological Societies in Erfurt on May 1 6 1990 Compared to previous ones of this kind held in 1979 1983 and 1987 in Weimar one can point to impressive progress in the study and applications of Streptomyces genetics Microbial Surface Components and Toxins in Relation to Pathogenesis Eilora Z. Ron, Shlomo Rottem, 2012-12-06 The meeting on Microbial Surface Components and Toxins in Relation to Pathogenesis was held on May 15 19 1989 in the Mitzpe Rachel guesthouse of Kibbutz Ramat Rachel in Israel Four major topics formed the basis for the meeting adhesion and colonization cell invasion and intracellular multiplication evasion of host defenses toxins and systemic effects The presentations clearly show that our understanding of the pathology pathogenesis and bacteria host cell interaction has greatly advanced over the last few years The contributions to our knowledge on the biogenesis of adhesins and their molecular organization as well as on the mechanism of adherence to infected target tissue by pathogenic bacteria have been particularly impressive significant progress has been made in defining the nature of pathogenic and cytotoxic factors produced by bacteria and much has been learned about the biochemical and antigenic modifications occurring in diverse types of host cells upon infection The discussions of polysaccharide capsules bacterial endotoxins and secreted toxins illustrated the challenge and the possibilities for vaccine development The Release of Genetically Modified Microorganisms—REGEM 2 Duncan E.S. Stewart-Tull, Max Sussman, 2012-12-06 If ripple effect is a measure of greatness in scientific discovery then GEMMOs have a lot going for them and this book dramatically illustrates the risks associated with advances being made by researchers to mobilize and control the power of the microorganism in the world's fight to perfect nature and find remedies for its imperfections In the field of genetic science it is abundantly clear that so much more can be achieved through prevention rather than cure and that the indirect kill by reason of its logic is a much more powerful weapon for winning results Nevertheless the dilemma facing politicians arises over whether man should tamper with something which is God given such as Radioactivity and Genetic endowment The Roman Catholic church finds difficulty in accepting the proposition that what is God given can be treated as a product under human control and maybe that is why recently half a century of genetic research on a strain of bees resistant to a devastating parasite at the Buckfastleigh Benedictine Monastery has inexplicably ceased whilst verging on scientific

success | The Anglican Community on the other hand does not see the sacrosanctity of Radioactivity and Genetic material as a bar to man manipulation with appropriate safeguards

Rapid Diagnosis of Mycoplasmas Itzhak Kahane, Amiram Adoni, 2012-12-06 This compendium is the result of the FEMS Workshop on Rapid Diagnosis of Mycoplasmas which I organized and which took place in Jerusalem Israel August 11-23 1991 The first week's sessions were held at a resort on the outskirts of Jerusalem and consisted of lectures and discussions This part was modelled along the lines of the Gordon Conference in the USA i.e. in an intimate atmosphere in which everyone could mix and exchange ideas and was very beneficial About 100 scientists from around the world attended the first week During the first week the biology molecular biology and pathophysiology of mycoplasmas as well as all the main diagnostic methods were covered including both conventional and the newer technologies The session on mycoplasmas in the human urogenital tracts was held in conjunction with the Israel Society for the Study and Prevention of Sexually Transmitted Disease The second week was a laboratory session and was held at the Hebrew University Hadassah Medical School campus in Ein Karem Jerusalem All experiments were conducted by eminent specialists in their field The lab session had 36 participants from 19 countries who used the most modern techniques for the diagnosis of mycoplasmas in medicine veterinary medicine and agriculture The efficacy of several commercial kits were also tested at this time I want to again thank everyone who helped and supported this workshop as well as the authors of the various chapters

Bacterial Growth and Lysis M.A. de Pedro, J.V. Hölte, Wolfgang Löffelhardt, 2013-11-11 This volume is based on a FEMS Symposium entitled Bacterial Growth and Lysis Metabolism and Structure of the Bacterial Saccus held at the Monastery of Lluc Mallorca Spain on 5-10 April 1992 The goals of the symposium were to assess the present state of knowledge on the structure and physiology of the bacterial murein sacculus and to develop new hypotheses and strategies to promote further development of the field Consequently the contributions compiled in this volume include broadly different approaches from the introduction of new analytical methods to the presentation of provocative models for cell wall growth and division Structural biochemical and genetic aspects are widely covered with special emphasis on the enzymology and regulation of murein hydrolases autolysins Comprehensive reviews on bacterial S layers and yeast cell walls are included to stimulate conceptual cross feeding with these closely related topics We believe that this book will provide the reader with a useful and up to date review of the topic We would feel deeply rewarded by any positive influence this book may have on the future progress of the field whereby all the scientific credit for it should be given to the authors of the excellent contributions presented

Bergey's Manual® of Systematic Bacteriology Don J. Brenner, Noel R. Krieg, James R. Staley, 2007-12-14 Includes a description of the Gammaproteobacteria 1203 pages 222 figures and 300 tables This large taxon includes many well known medically and environmentally important groups Especially notable are the Enterobacteriaceae Aeromonas Beggiatoa Chromatium Legionella Nitrococcus Oceanospirillum Pseudomonas Rickettsiella Vibrio Xanthomonas and 155 additional genera

Genetic Analysis of Wax Ester and

Triacylglycerol Biosynthesis in Acinetobacter Calcoaceticus Strain BD413 Steven Edward Reiser,1996 Microbios
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