

The background of the book cover is a high-magnification electron micrograph showing several large, spherical bacterial cells. The cells have a textured, granular surface and are arranged in a cluster. The color palette is dominated by dark, mottled tones of brown, black, and grey, giving it a scientific and somewhat abstract appearance.

Genetics and Molecular Biology of **Streptococci, Lactococci, and Enterococci**

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Genetics And Molecular Biology Of Streptococci Lactococci And Enterococci

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Genetics And Molecular Biology Of Streptococci Lactococci And Enterococci:

Genetics and Molecular Biology of Streptococci, Lactococci, and Enterococci Gary M. Dunne, P. Patrick Cleary, Larry L. McKay, 1991 *Methods for studying the genetics, molecular biology, physiology, and pathogenesis of the streptococci* Paula M. Fives-Taylor, Donald J. LeBlanc, 2013-06-29 This book is devoted entirely to methods developed in and for studies of members of the bacterial family Streptococcaceae Many of the studies that have been conducted on the Streptococcaceae were initiated because of the diseases they cause or to enhance their utility from an industrial perspective However the results of many of these investigations have demonstrated a complexity among some members of the family that warrants an interest in them in their own right apart from or in addition to any biomedical or industrial considerations It is therefore hoped and expected that the advanced methods contained in this book will be of interest to those who work with the streptococci and other Gram positive organisms to researchers interested in industrial and medical microbiology and to any researcher who seeks to obtain a better understanding of how microorganisms interact with each other their environment and their hosts The Prokaryotes Stanley Falkow, Eugene Rosenberg, Karl-Heinz Schleifer, Erko Stackebrandt, 2006-10-11 The revised Third Edition of The Prokaryotes acclaimed as a classic reference in the field offers new and updated articles by experts from around the world on taxa of relevance to medicine ecology and industry Entries combine phylogenetic and systematic data with insights into genetics physiology and application Existing entries have been revised to incorporate rapid progress and technological innovation The new edition improves on the lucid presentation logical layout and abundance of illustrations that readers rely on adding color illustration throughout Expanded to seven volumes in its print form the new edition adds a new searchable online version **Genetics and Biotechnology of Lactic Acid Bacteria** Michael J. Gasson, W. de Vos, 2012-12-06 A prime reference volume for geneticists food technologists and biotechnologists in the academic and industrial sectors Fermentations with lactic acid bacteria determine important qualities such as taste shelf life and food values New methods of food production require fast and reliable manufacture which has led to a dramatic surge of interest in the genetic microbiological and biochemical properties of lactic acid bacteria *Lactic Acid Bacteria: Genetics, Metabolism and Applications* W.N. Konings, O.P. Kuipers, J.H.J. Huis in 't Veld, 2013-03-09 In ancient times foods fermented with lactic acid bacteria already constituted an important part of the human diet From then on lactic acid bacteria have played an essential role in the preservation of food raw materials and have contributed to the nutritional organoleptic and health properties of human food products and animal feed The important function that lactic acid bacteria still have in the production of foods all over the world has resulted in a growing scientific interest in these micro organisms by academic research groups as well as by industry During the last 15 years this research has been stimulated by major internationally coordinated funding efforts that have resulted in a variety of important scientific breakthroughs and have led to new applications Written by international experts in the field this issue of Antonie van Leeuwenhoek documents these

developments with respect to genetics metabolism and the application of lactic acid bacteria for industrial and potential medical applications In this book the first complete genome of a lactic acid bacterium is presented The book will serve as a reference source and also as an indispensable source of information for further development and exploration of the field

The Genera of Lactic Acid Bacteria W.H.N Holzapfel,B.J. Wood,2012-12-06 The Lactic Acid Bacteria is planned as a series in a number of volumes and the interest shown in it appears to justify a cautious optimism that a series comprising at least five volumes will appear in the fullness of time This being so I feel that it is desirable to introduce the series by providing a little of the history of the events which culminated in the decision to produce such a series I also wish to indicate the boundaries of the group The Lactic Acid Bacteria as I have defined them for the present purposes and to outline my hopes for future topics in the series Historical background lowe my interest in the lactic acid bacteria LAB to the late Dr Cyril Rainbow who introduced me to their fascinating world when he offered me a place with him to work for a PhD on the carbohydrate metabolism of some lactic rods isolated from English beer breweries by himself and others notably Dr Dora Kulka He was particularly interested in their preference for maltose over glucose as a source of carbohydrate for growth expressed in most cases as a more rapid growth on the disaccharide but one isolate would grow only on maltose Eventually we showed that maltose was being utilised by direct fermentation as the older texts called it specifically by the phosphorolysis which had first been demonstrated for maltose by Doudoroff and his associates in their work on maltose metabolism by a strain of Neisseria meningitidis

Genetics of Lactic Acid Bacteria B.J. Wood,Philip J. Warner,2012-12-06 Beginning with an introduction to relevant genetic techniques chapters cover all major groups of LAB including the Bifidobacteria plasmid biology gene transfer phage and sugar metabolism gene expression of various LAB applications for genetically engineered LAB including the emerging field of medical applications and the legal and consumer issues that arise from such applications This resource will set the benchmark for the state of knowledge of LAB genetics and should be of value to food scientists and other researchers working with LAB in its present and future capacities Professionals using lactic acid bacteria LAB for research and or as working organisms whether in food and dairy fermentations or in the exciting new field of clinical delivery agents will find this book invaluable In addition professors teaching under and post graduates in microbiology and postgraduate research students will also find this an essential reference work

Genetics of Bacterial Polysaccharides Joanna B. Goldberg,1999-04-30 Bacterial surface or secreted polysaccharides are molecules that can function as barriers to protect bacterial cells against environmental stresses as well as act as adhesins or recognition molecules In some cases these molecules are immunodominant antigens eliciting a vigorous immune response while in other cases the expression of polysacchari

Microorganisms and Autoimmune Diseases Herman Friedman,Noel R. Rose,Mauro Bendinelli,2012-12-06 Experts in microbiology and autoimmunity examine the association between microorganisms and the development of specific categories of autoimmune diseases The opening chapters explore the bacterial induction of diseases

considered autoimmune in nature Subsequent chapters describe the role of viruses in the induction of these diseases and of diseases with an autoimmune component Specific topics include the role of streptococcal infection in rheumatic fever and the role of Klebsiella in the development of ankylosing spondylitis

Streptococci and the Host Thea Horaud, Anne Bouvet, Roland Leclercq, Henri de Montclos, Michel Sicard, 2013-11-08 Streptococci and enterococci are the etiologic agents of infectious diseases that rank among the most severe in human pathology The diagnosis antibiotherapy and prevention of the streptococcal diseases have improved considerably However the reemergence of severe streptococcal and enterococcal diseases constitutes a growing public health concern which remains open to scientific and medical debate The XIII h Lancefield International Symposium on Streptococci and Streptococcal Diseases held at Institut Pasteur Paris France September 16-21 1996 attracted 505 participants from 43 countries Twenty two percent of the participants were students a clear sign of the intense interest in this field Of the 390 presentations made at the symposium 260 were submitted as manuscripts for the Proceedings we have included 249 of these in this volume This symposium provided a forum for the presentation of the most recent findings and approaches to understanding several important fields such as new aspects of infection bacteria host interactions epidemiology and molecular genetics of streptococci and enterococci Over the last three years the study of these subjects has expanded as increasingly sophisticated methods of molecular analysis have been applied to investigate the biology of pathogenic streptococci and enterococci Virulence vaccine strategies genetics antibiotic resistance epidemiology and immunology are now being examined through the lens of molecular biology The application of recently developed techniques to this field will continue to yield insight into the mechanism by which these organisms cause disease

Bacterial Genomes F.J. de Bruijn, James R. Lupski, G.M. Weinstock, 2012-12-06 A wide range of microbiologists molecular biologists and molecular evolutionary biologists will find this new volume of singular interest It summarizes the present knowledge about the structure and stability of microbial genomes and reviews the techniques used to analyze and fingerprint them Maps of approximately thirty important microbes along with articles on the construction and relevant features of the maps are included The volume is not intended as a complete compendium of all information on microbial genomes but rather focuses on approaches methods and good examples of the analysis of small genomes

Molecular Mechanisms of Bacterial Virulence C.I. Kado, J.H. Crosa, 2012-12-06 The growing body of information on bacteria pathogenic for humans mammals and plants generated within the past ten years has shown the interesting conservation of newly identified genes that play a direct role in the pathogenic mechanism In addition to these genes there are also genes that confer host specificities and other traits important in pathogenesis on these pathogens In this volume we have organized the subject areas to best fit the concept on the way bacterial pathogens recognize interact and invade the host on the regulation of genes involved in virulence on the genes involved in the elaboration of toxins and other pathogenic components such as iron sequestering proteins and on the mechanisms of circumventing the host defense systems These areas are divided into

Sections Section I covers the first step when the pathogen seeks its host and Sections II through VI cover subsequent steps leading to pathogenesis while avoiding host defenses We conclude this work with a chapter summarizing information on examples of virulence mechanisms that are highly conserved Streptococcal Pharyngitis Jean-Claude Pechère,Edward L. Kaplan,2004 Group A streptococcal pharyngitis is one of the most common but also controversial infections clinicians are faced with every day Clinical diagnosis is often not specific laboratory data can be misleading and are frequently misinterpreted Despite the in vitro effectiveness of penicillin it does not always eradicate the organism from the upper respiratory tract Numerous newly introduced antibiotics are expensive or not even available in many countries In this book internationally acknowledged experts deal in detail with the complexity of streptococcal pharyngitis and the remaining controversies It offers an overview of the virulence factors of *Streptococcus pyogenes* the pathogenesis of pediatric and adult streptococcal pharyngitis and the epidemiology of streptococcal pharyngitis in high and low income countries In addition the most current concepts of clinical and laboratory diagnosis of streptococcal pharyngitis and its possible suppurative and non suppurative complications are presented Further points under discussion are the efficacy of different antibiotic treatments and the cost issues in diagnosis and therapy Finally the impact of streptococcal pharyngitis on public health worldwide as well as possible vaccine control strategies are reviewed This concise publication is a valuable reference for primary care physicians pediatricians otolaryngologists public health authorities and students in the health care professions

Bacteriocins of Lactic Acid Bacteria Luc De Vuyst,Erick J. Vandamme,2012-12-06 As antibacterial compounds bacteriocins have always lived in the shadow of those medically important efficient and often broad spectrum low molecular mass antimicrobials well known even to laypeople as antibiotics This is despite the fact that bacteriocins were discovered as early as 1928 a year before the penicillin saga started Bacteriocins are antimicrobial proteins or oligopeptides displaying a much narrower activity spectrum than antibiotics they are mainly active against bacterial strains taxonomically closely related to the producer strain which is usually immune to its own bacteriocin They form a heterogeneous group with regard to the taxonomy of the producing bacterial strains mode of action inhibitory spectrum and protein structure and composition Best known are the colicins and microcins produced by Enterobacteriaceae Many other Gram negative as well as Gram positive bacteria have now been found to produce bacteriocins In the last decade renewed interest has focused on the bacteriocins from lactic acid bacteria which are industrially and agriculturally very important Some of these compounds are even active against food spoilage bacteria and endospore formers and also against certain clinically important food borne pathogens Recently bacteriocins from lactic acid bacteria have been studied intensively from every possible scientific angle microbiology biochemistry molecular biology and food technology Intelligent screening is going on to find novel compounds with unexpected properties just as has happened and is still happening with the antibiotics Knowledge especially about bacteriocins from lactic acid bacteria is accumulating very rapidly Methods for General and Molecular Microbiology C. A.

Reddy,Terry J. Beveridge,John A. Breznak,George Marzluf,2007-08-17 A first source for traditional methods of microbiology as well as commonly used modern molecular microbiological methods Provides a comprehensive compendium of methods used in general and molecular microbiology Contains many new and expanded chapters including a section on the newly important field of community and genomic analysis Provides step by step coverage of procedures with an extensive list of references to guide the user to the original literature for more complete descriptions Presents methods for bacteria archaea and for the first time a section on mycology Numerous schematics and illustrations both color and black and white help the reader to easily understand the topics presented **Bacteriocins of Lactic Acid Bacteria** Dallas G. Hoover,Larry R.

Steenson,2014-06-28 Bacteriocins of Lactic Acid Bacteria is based on the 1990 Annual Meeting of the Institute of Food Technologists held in Dallas Texas It describes a number of well characterized bacteriocins and where possible discusses practical applications for those that have been defined thus far from the lactic acid bacteria The book begins with an introductory overview of naturally occurring antibacterial compounds This is followed by discussions of methods of detecting bacteriocins and biochemical procedures for extraction and purification genetics and cellular regulation of bacteriocins bacteriocins based on the genera of lactic acid bacteria Lactococcus Lactobacillus Pediococcus and Leuconostoc and related bacteria such as Carnobacterium and Propionibacterium and the regulatory and political aspects for commercial use of these substances The final chapter sets out the prognosis for the future of this dynamic area The information contained in this book should benefit those with interest in the potential for industrial use of bacteriocins as preservative ingredients Anyone interested in lactic acid bacteria or the biosynthesis regulation and mechanisms of inhibition of these proteinaceous compounds will also appreciate the material presented These include food scientists microbiologists food processors and product physiologists food toxicologists and food and personal product regulators *Emerging Infectious Diseases* ,2006

Streptococcal Infections Dennis L. Stevens,Edward L. Kaplan,2000 Streptococcal Infections Clinical Aspects Microbiology and Molecular Pathogenesis offers an in depth examination of the spectrum of hemolytic streptococcal infections and their complications Additionally the volume incorporates and discusses aspects of pneumococcal enterococcal and oral streptococcal disease The recent resurgence of rheumatic fever concomitant outbreaks of severe systemic group A streptococcal infections often accompanied by toxic shock an increasing incidence of multiple antibiotic resistance among streptococcal species and an intensified effort to develop effective streptococcal vaccines have brought renewed attention to the continuing role of streptococci for causing significant medical and public health problems in both industrialized and developing countries Addressing clinical and epidemiological aspects and microbiological and other approaches of the research scientist this volume is the first to comprehensively address these clinically important organisms in many years The contributors are internationally recognized for their expertise making this book invaluable for infectious disease physicians internists pediatricians and family physicians microbiologists epidemiologists and basic scientists with an interest in

streptococcal infections and their complications *Biochemistry of Milk Products* A T Andrews, J R Varley, 1994-09-01

Biochemistry of milk products documents advances in the field and focuses on the two most active areas of research areas which are starter cultures and enzymes for use in cheese and other foods and factors influencing the functional properties of milk. The book covers the current thinking and research on the roles of proteinases and peptidases in the milk clotting process and in texture and flavour development during maturation of product. It also covers the protein engineering of enzymes and molecular biological manipulation of microorganisms including the use of protein engineering to clarify the molecular basis of functional behavior and to manipulate protein properties in a defined and planned way. Biochemistry of milk products provides important reading for research workers, lecturers, graduates and final year undergraduates with interest in the practical applications of molecular biology, enzymology and protein chemistry not just in improving the quality and performance of dairy foods and ingredients but also in a much wider context.

Advances in Microbial Physiology

, 1995-10-12 Praise for the Series: This series has consistently presented a well balanced account of progress in microbial physiology. Invaluable for teaching purposes. AMERICAN SCIENTIST. *Advances in Microbial Physiology* was first published in 1967 and under the pioneering editorship of Professor Tony Rose with the collaboration at various times of John Wilkinson, Gareth Morris and Dave Tempest the series has become immensely successful and influential. The editors have always striven to interpret microbial physiology in the broadest possible context and have never restricted the contents to traditional views of whole cell physiology. Robert Poole was appointed as the new editor following the untimely death of Tony Rose. Under Professor Poole's editorship *Advances in Microbial Physiology* continues to publish topical and important reviews and to interpret physiology as widely as in the past by including all material that contributes to the understanding of how microorganisms and their component parts work. This continues to be the real challenge of microbial physiology.

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