

G. Pozzi · J. M. Wells  
Editors

# Gram-Positive Bacteria

Vaccine Vehicles  
for Mucosal Immunization



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# Grampositive Bacteria Vaccine Vehicles For Mucosal Immunization

**W.N. Konings, O.P. Kuipers, J.H.J. Huis  
in 't Veld**

## **Grampositive Bacteria Vaccine Vehicles For Mucosal Immunization:**

Gram-Positive Bacteria Gianni Pozzi, Jeremy M. Wells, 2013-06-29 This book gives a very timely account of recent partly unpublished research on the development of gram positive bacteria as vaccine delivery vehicles for mucosal immunization. The practical and theoretical considerations are discussed and the basic concepts behind the different approaches are compared by giving specific examples of the use of different non pathogenic bacteria as vaccine vehicles. Thus a common framework of concepts for a new generation of mucosal vaccines is provided.

**Gram-positive Bacteria** Gianni Pozzi, 1997-01-01

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.

Lactic Acid Bacteria Seppo Salminen, Atte von Wright, 2004-07-23 While lactic acid producing fermentation has been utilized to improve the storability, palatability and nutritive value of perishable foods for a very long time, only recently have we begun to understand just why it works. The first edition of this international bestseller both predicted and encouraged vigorous study of various strains of lactic acid bacteria.

**Biotechnology of Lactic Acid Bacteria** Fernanda Mozzi, R?ul R. Raya, Graciela M. Vignolo, 2010-01-29 This title represents a broad review of current research on LAB and their novel applications with contributions from a number of well known leading scientists. The book encompasses a wide range of topics including both traditional and novel developing fields and provides unparalleled comprehensive information on new advances of genomics, proteomics, metabolism and biodiversity of LAB. Chapters contain state of the art discussions of specific LAB applications such as their use as probiotics, live vaccines and starter cultures in old and new fermented products. The safety of these microorganisms and their interactions with diverse ecosystems, natural biota are also covered as well as the new applications of well known bacteriocins and novel vitamins, low calorie sugars etc. metabolites produced by LAB. This book is an essential reference for established researchers and scientists, doctoral and post doctoral students, university professors and instructors and food technologists working on food microbiology, physiology and

biotechnology of lactic acid bacteria      **Dendritic Cells** Michael T. Lotze, Angus W. Thomson, 2001-08-20 Dendritic Cells Second Edition is the new edition of the extremely successful book published in 1998 With the volume of literature on dendritic cells doubling every year it is almost impossible to keep up This book provides the most up to date synthesis of the literature written by the very best authors It is essential reading for any scientist working in immunology cell biology infectious diseases cancer transplantation genetic engineering or the pharmaceutical biotechnology industry An entirely new section on DC biology is included in this edition Also new to this edition are chapters on Imaging Interaction of dendritic cells with viruses Dendritic cells and dendrikinases chemokines and the endothelium Molecules expressed in dendritic cells Role of dendritic cells in wound healing and atherosclerosis Delivery of apoptotic bodies Genetic engineering of dendritic cells Imaging Practical aspects of clinical protocol development      **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      **Advances in Applied Microbiology** , 2005-01-06 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 This volume contains 12 comprehensive reviews including Uses of *Trichoderma* spp to alleviate or remediate soil and water pollution Lincosamides chemical structure biosynthesis mechanism of action resistance and applications Polysaccharide breakdown by anaerobic microorganisms inhabiting the mammalian gut and Novel aspects of signaling in *Streptomyces* development This series has been in constant publication since 1959 An ISI impact factor of 1.0 in 2002 This volume contains 12 comprehensive reviews of current research in applied microbiology      *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

**Vaccinology** Gregg N. Milligan, Alan D. T. Barrett, 2015-02-16 *Vaccinology An Essential Guide* outlines in a clear practical format the entire vaccine development process from conceptualization and basic immunological principles through to clinical testing and licensing of vaccines With an outstanding introduction to the history and practice of vaccinology it also guides the reader through the basic science relating to host immune responses to pathogens Covering the safety regulatory ethical and economic and geographical issues that drive vaccine development and trials it also presents vaccine delivery strategies novel vaccine platforms including experimental vaccines and pathogens antigen development and selection vaccine modelling and the development of vaccines against emerging pathogens and agents of bioterror There are also sections devoted to veterinary vaccines and associated regulatory processes *Vaccinology An Essential Guide* is a perfect tool for designed for undergraduate and graduate microbiologists and immunologists as well as residents fellows and trainees of infectious disease and vaccinology It is also suitable for all those involved in designing and conducting clinical vaccine trials and is the ideal companion to the larger reference book *Vaccinology Principles and Practice*

**Prebiotics and Probiotics Science and Technology** Dimitris Charalampopoulos, Robert A. Rastall, 2009-08-12 A comprehensive overview on the advances in the field this volume presents the science underpinning the probiotic and prebiotic effects the latest in vivo studies the technological issues in the development and manufacture of these types of products and the regulatory issues involved It will be a useful reference for both scientists and technologists working in academic and governmental institutes and the industry

**Probiotics** Min-Tze Liong, 2011-07-28 Probiotic microorganisms have a long history of use and their health benefits for hosts are well documented This *Microbiology Monographs* volume provides an overview of the current knowledge and applications of probiotics Reviews cover the biology and probiotic potential of the thoroughly studied prokaryotic genera *Lactobacillus* and *Bifidobacterium* several eukaryotic microorganisms probiotic strain characterization and the analytical methods such as FISH microarray and high throughput sequencing required for their study Further chapters describe the positive effects of probiotics on malabsorption disorders such as diarrhea and lactose intolerance and document the clinical evidence of benefits in treating allergies and lung emphysema and in dermatological applications Also addresses are topics such as genetically engineered strains new carriers for probiotics protection techniques challenges of health claims safety aspects and future market trends

***Molecular Vaccines*** Matthias Giese, 2013-10-16 This book gives a comprehensive overview to all aspects of global molecular vaccine research It introduces concepts of vaccine immunology and molecular vaccine development for viral bacterial parasitic and fungal infections Furthermore the broad field of research and development in molecular cancer vaccines is discussed in detail This book is a must have for scientists and clinicians interested in new developments in molecular vaccine research and application in infections and cancer

**FEMS Microbiology Letters** Federation of European Microbiological Societies, 2002 An international journal providing for the

rapid publication of short reports on microbiological research      **Biotechnology Annual Review** M.R. El-Gewely,1997-07-15 This new series aims at covering the development in the field of biotechnology in the form of comprehensive illustrated and well referenced reviews With the expansion in the field of biotechnology both in industry as well as in education coupled with the increase in the number of new journals reporting new results in the field the need for a publication that is continuously providing reviews is urgent The goal of Biotechnology Annual Review is to fill this gap Reviewed topics will include biotechnology applications in medicine agriculture marine biology industry bioremediation and the environment Fundamental problems dealing with enhancing the technical knowledge encountering biotechnology utilization regardless of the field of application will be emphasized Other issues dealing with policy and regulation of biotechnology as well as the problems of development in developing countries as related to biotechnology will be included in the various issues The Editorial Board of Biotechnology Annual Review encourages suggestions and contributions of articles from industry or from academic institutions that would constitute a comprehensive covering of a relevant topic in biotechnology Proposals for contributions and or suggestions for topics for future volumes in this series should be sent to the Editor Professor M Raafat El Gewely Department of Biotechnology Institute of Medical Biology University of Troms 9037 Troms Norway Tel 47 77 644654 Fax 47 77 645350      **Subject Guide to Books in Print** ,2001      **Recognition of Carbohydrates in Biological Systems, Part A: General Procedures** Y. C. Lee,Reiko T. Lee,2003-09-15 Recognition of carbohydrates in biological systems has been gaining more and more attention in recent years Although methodology for studying recognition has been developing there is no volume that covers the wide area of methodology of carbohydrate recognition This volume Recognition of Carbohydrates in Biological Systems Part A General Procedures and its companion Volume 363 present state of the art methodologies as well as the most recent biological observations in this area Covers the isolation synthesis of substances used in studying interactions involving carbohydrates Discussed the methodology for measuring such interactions Biological roles for such interactions are also covered      *Applied and Environmental Microbiology* ,2001      **Vaccines for Biodefense and Emerging and Neglected Diseases** Alan D.T. Barrett,Lawrence R. Stanberry,2009-03-05 The last 20 years has seen a rapid increase in infectious diseases particularly those that are termed emerging diseases such as SARS neglected diseases such as malaria and those that are deemed biotreats such as anthrax It is well recognized that the most effective modality for preventing infectious diseases is vaccination This book provides researchers with a better understanding of what is currently known about these diseases including whether there is a vaccine available or under development It also informs readers of the key issues in development of a vaccine for each disease Provides a comprehensive treatise of the agents that are responsible for emerging and neglected diseases and those that can be used as biotreats Includes the processes such as the vaccine development pathway vaccine manufacturing and regulatory issues that are critical to the generation of these vaccines to the marketplace Each chapter will include a map of

the world showing where that particular disease is naturally found      *Probiotic Bacteria and Postbiotic Metabolites: Role in Animal and Human Health* Naheed Mojgani, Maryam Dadar, 2021-04-11 This book covers all aspects of probiotic bacteria and their metabolites as well as their role and significance in human and animal health Given the role of probiotic bacterial strains in the production of short chain fatty acids butyrate etc probiotics may be considered as an alternative approach for the prevention or treatment of intestinal dysbiosis cancers cardiovascular diseases hypertension Additionally the significance of probiotics added in aquaculture systems for improving health performance and growth of aquatic organisms has been highlighted In this book the multi functional role of probiotics and their post biotic metabolites in improving overall health status of man and animals is discussed It is a comprehensive compilation useful for researchers academics veterinarians and students in the field of microbiology food technology and biotechnology

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