

This book focuses on the pathogen group B streptococcus (GBS) which primarily causes meningitis, sepsis and pneumonia in newly born babies. This results in preventable morbidity and mortality in these neonates. The babies acquire the organism from their mothers because 3 out of 10 women are asymptomatically colonized by GBS in the vagina and rectum. Neonatal disease results in life long neurological complications in some of the children. Besides infections in children, GBS can also cause disease in pregnant and non-pregnant adults especially if they have underlying medical conditions. The book describes the bacteriology, epidemiology, clinical manifestations, laboratory diagnosis and characterization of this organism in a manner easily understandable to concerned parents, pharmacists, nurses, clinicians, medical laboratory scientists, technicians, technologists, biomedical scientists, clinical pharmacologists, rehabilitation specialists, academics and researchers, clinical scientists, infection control specialists, surveillance officers, epidemiologists and any other interested individuals especially medical students.



Roojen T. Mavengerwa

Molecular, Clinical Microbiology & Diagnosis of Group B Streptococcus

A focus on epidemiology, bacteriology, detection,
characterization, prevention, treatment and
antibiotic resistance



Dr Roojen T Mavengerwa, an academic and researcher in infectious diseases works in the Department of Medical Microbiology, University of Zimbabwe College of Health Sciences. He holds a BSc (Hons) Bio Sci, an MSc Med Micro, a Post GCE plus a PhD on Group B streptococcus from the Norwegian University of Science and Technology, Trondheim, Norway.



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Diagnostic Molecular Biology Chang-Hui Shen, 2023-06-29 *Diagnostic Molecular Biology* Second Edition describes the fundamentals of molecular biology in a clear concise manner with each technique explained within its conceptual framework and current applications of clinical laboratory techniques comprehensively covered This targeted approach covers the principles of molecular biology including basic knowledge of nucleic acids proteins and chromosomes the basic techniques and instrumentations commonly used in the field of molecular biology including detailed procedures and explanations and the applications of the principles and techniques currently employed in the clinical laboratory Topics such as whole exome sequencing whole genome sequencing RNA seq and ChIP seq round out the discussion Fully updated this new edition adds recent advances in the detection of respiratory virus infections in humans like influenza RSV hAdV hRV but also corona This book expands the discussion on NGS application and its role in future precision medicine Provides explanations on how techniques are used to diagnosis at the molecular level Explains how to use information technology to communicate and assess results in the lab Enhances our understanding of fundamental molecular biology and places techniques in context Places protocols into context with practical applications Includes extra chapters on respiratory viruses Corona Molecular Medical Microbiology Yi-Wei Tang, Musa Hindiyeh, Dongyou Liu, Andrew Sails, Paul Spearman, Jing-Ren Zhang, 2023-11-21 *Molecular Medical Microbiology* Third Edition presents the latest release in what is considered to be the first book to synthesize new developments in both molecular and clinical research The molecular age has brought about dramatic changes in medical microbiology along with great leaps in our understanding of the mechanisms of infectious disease This third edition is completely updated reviewed and expanded providing a timely and helpful update for microbiologists students and clinicians in the era of increasing use of molecular techniques changing epidemiology and prevalence and increasing resistance of many pathogenic bacteria Written by experts in the field chapters include cutting edge information and clinical overviews for each major bacterial group along with the latest updates on vaccine development molecular technology and diagnostic technology Completely updated and revised edition of this comprehensive and accessible reference on molecular medical microbiology Includes full color presentations throughout Delves into in depth discussions on individual pathogenic bacteria in a system oriented approach Includes a clinical overview for each major bacterial group Presents the latest information on vaccine development molecular technology and diagnostic technology Provides more than 100 chapters on all major groups of bacteria Molecular Medical Microbiology Max Sussman, 2002 The molecular age has brought about dramatic changes in medical microbiology and great leaps in our understanding of the mechanisms of infectious disease *Molecular Medical Microbiology* is the first book to synthesise the many new developments in both molecular and clinical research in a single comprehensive resource This timely and authoritative 3 volume work is an invaluable reference source of medical bacteriology Comprising over 100 chapters organised into 17 major sections the scope of this impressive work is

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Principles and Practice of Clinical Bacteriology Stephen Gillespie, Peter M. Hawkey, 2006-05-12 Since the publication of the last edition of Principles and Practice of Clinical Bacteriology our understanding of bacterial genetics and pathogenicity has been transformed due to the availability of whole genome sequences and new technologies such as proteomics and transcriptomics The present completely revised second edition of this greatly valued work has been developed to integrate this new knowledge in a clinically relevant manner Principles and Practice of Clinical Bacteriology Second Edition provides the reader with invaluable information on the parasitology pathogenesis epidemiology and treatment strategies for each pathogen while offering a succinct outline of the best current methods for diagnosis of human bacterial diseases With contributions from an international team of experts in

the field this book is an invaluable reference work for all clinical microbiologists infectious disease physicians public health physicians and trainees within these disciplines

Manual of Commercial Methods in Clinical Microbiology

,2016-03-28 The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition reviews in detail the current state of the art in each of the disciplines of clinical microbiology and reviews the sensitivities specificities and predictive values and subsequently the effectiveness of commercially available methods both manual and automated This text allows the user to easily summarize the available methods in any particular field or for a specific pathogen for example what to use for an Influenza test a Legionella test or what instrument to use for identification or for an antibiotic susceptibility test The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition presents a wealth of relevant information to clinical pathologists directors and supervisors of clinical microbiology infectious disease physicians point of care laboratories professionals using industrial applications of diagnostic microbiology and other healthcare providers The content will allow professionals to analyze all commercially available methods to determine which works best in their particular laboratory hospital clinic or setting Updated to appeal to an international audience The Manual of Commercial Methods in Clinical Microbiology 2nd Edition International Edition is an invaluable reference to those in the health science and medical fields

Molecular Microbiology David H. Persing,Fred C. Tenover,Randall T. Hayden,Margareta

Ieven,Melissa B. Miller,Frederick S. Nolte,Yi-Wei Tang,Alex van Belkum,2016-04-01 Presenting the latest molecular diagnostic techniques in one comprehensive volume The molecular diagnostics landscape has changed dramatically since the last edition of Molecular Microbiology Diagnostic Principles and Practice in 2011 With the spread of molecular testing and the development of new technologies and their opportunities laboratory professionals and physicians more than ever need a resource to help them navigate this rapidly evolving field Editors David Persing and Fred Tenover have brought together a team of experienced researchers and diagnosticians to update this third edition comprehensively to present the latest developments in molecular diagnostics in the support of clinical care and of basic and clinical research including next generation sequencing and whole genome analysis These updates are provided in an easy to read format and supported by a broad range of practical advice such as determining the appropriate type and quantity of a specimen releasing and concentrating the targets and eliminating inhibitors Molecular Microbiology Diagnostic Principles and Practice Presents the latest basic scientific theory underlying molecular diagnostics Offers tested and proven applications of molecular diagnostics for the diagnosis of infectious diseases including point of care testing Illustrates and summarizes key concepts and techniques with detailed figures and tables Discusses emerging technologies including the use of molecular typing methods for real time tracking of infectious outbreaks and antibiotic resistance Advises on the latest quality control and quality assurance measures Explores the increasing opportunities and capabilities of information technology Molecular Microbiology Diagnostic Principles and Practice is a textbook for molecular diagnostics courses that can also be used by anyone involved

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Molecular, Clinical Microbiology and Diagnosis of Group B Streptococcus Mavenyengwa Rooyen T, 2015-12-11 This book focuses on the pathogen group B streptococcus GBS which primarily causes meningitis sepsis and pneumonia in newly born babies This results in preventable morbidity and mortality in these neonates The babies acquire the organism from their mothers because 3 out of 10 women are asymptotically colonized by GBS in the vagina and rectum Neonatal disease results in life long neurological complications in some of the children Besides infections in children GBS can also cause disease in pregnant and non pregnant adults especially if they have underlying medical conditions The book describes the bacteriology epidemiology clinical manifestations laboratory diagnosis and characterization of this organism in a manner easily understandable to concerned parents pharmacists nurses clinicians medical laboratory scientists technicians technologists biomedical scientists clinical pharmacologists rehabilitation specialists academics and researchers clinical scientists infection control specialists surveillance officers epidemiologists and any other interested individuals especially medical students

Feigin and Cherry's Textbook of Pediatric Infectious Diseases E-Book James Cherry, Gail J. Demmler-Harrison, Sheldon L. Kaplan, William Steinbach, Peter J Hotez, 2017-12-29 Offering unparalleled coverage of infectious diseases in children and adolescents Feigin immunomodulating agents and their potential use in the treatment of infectious diseases and Ebola virus Contains hundreds of new color images throughout as well as new guidelines new resistance epidemiology and new Global Health Milestones Includes new chapters on Zika virus and Guillain Barr syndrome Expert Consult™ eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices

Bacterial Population Genetics in Infectious Disease D. Ashley Robinson, Edward J Feil, Daniel Falush, 2010-03-16 This book is a unique synthesis of the major concepts and methods in bacterial population genetics in infectious disease a field that is now about 35 yrs old Emphasis is given to explaining population level processes that shape genetic variation in bacterial populations and statistical methods of analysis of bacterial genetic data A how to of bacterial population genetics which covers an extremely large range of organisms Expanding area of science due to high throughput genome sequencing of bacterial pathogens Covers both fundamental approaches to analyzing bacterial population structures with conceptual background in bacterial population biology Detailed treatment of statistical methods

Clinical Immunology and Serology Christine Dorresteyn Stevens, Linda E. Miller, 2016-11-17 Here s the must have information you need to understand the essential principles of immunology and to master the serology techniques most commonly used in the laboratory Easy to read student friendly coverage focuses on the direct application of theory to clinical laboratory practice preparing you for the real world in which you will practice

Staphylococcus and Streptococcus Sahra Kirmusaoğlu, 2020-03-11 Staphylococcus spp and Streptococcus spp have

not only got pathogenic isolates but also non pathogenic isolates Staphylococcus spp and Streptococcus spp that are Gram positive cocci are the main pathogens in several infections Virulence factors such as usual and unusual surface proteins encoded by resistance genes are the main causes of pathogenesis Multidrug resistant pathogens that are the main causes of morbidity and mortality worldwide have the ability to synthesize a number of destructive enzymes encoded by resistance genes such as lactamases Resistant pathogens such as methicillin resistant Staphylococcus aureus MRSA Streptococcus pneumoniae Group A and Group B Streptococcus have emerged throughout the world To eliminate these resistant pathogens that cause untreatable acute and chronic infections different new antimicrobials must be developed and used The goal of this book is to provide the latest information about the above topics

Medical Microbiology Patrick R. Murray, PhD, Ken S. Rosenthal, PhD, Michael A. Pfaller, MD, 2015-10-28 Turn to Medical Microbiology 8th Edition for a thorough clinically relevant understanding of microbes and their diseases This succinct easy to use text presents the fundamentals of microbiology and immunology in a clearly written engaging manner effectively preparing you for your courses exams and beyond Coverage of basic principles immunology laboratory diagnosis bacteriology virology mycology and parasitology help you master the essentials Review questions at the end of each chapter correlate basic science with clinical practice to help you understand the clinical relevance of the organisms examined Clinical cases illustrate the epidemiology diagnosis and treatment of infectious diseases reinforcing a clinical approach to learning Full color clinical photographs images and illustrations help you visualize the clinical presentations of infections Summary tables and text boxes emphasizing essential concepts and learning issues optimize exam review Additional images 200 self assessment questions NEW animations and more Student Consult eBook version included with purchase This enhanced eBook experience includes access on a variety of devices to the complete text videos images and references from the book Thoroughly updated chapters include the latest information on the human microbiome and probiotics prebiotics including a new chapter on Human Microbiome In Health and Disease NEW chapter summaries introduce each microbe chapter including trigger words and links to the relevant chapter text on e book version on Student Consult providing a concise introduction or convenient review for each topic Online access to the complete text additional images 200 self assessment questions NEW animations and more is available through Student Consult

Medical Microbiology, with STUDENT CONSULT Online Access, 7 Patrick R. Murray, Ken S. Rosenthal, Michael A. Pfaller, 2013-01-01 The new edition of this popular text presents microbiology in a succinct easy to use and engaging manner Clear discussions explain how microbes cause disease in humans and review the updated vaccines and new antibiotics currently available to treat these diseases Expert coverage of basic principles the immune response laboratory diagnosis bacteriology virology mycology and parasitology ensures that you ll understand all the facts vital to the practice of medicine today A revised artwork program illustrates the appearance of disease simplifying complex information while text boxes and additional summary tables emphasize essential concepts and learning issues for more efficient exam

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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

The PCR Revolution Stephen A. Bustin, 2010 Examines the latest innovations and the overall impact of PCR on areas of molecular research

Encyclopedia of Microbiology Thomas M. Schmidt, 2019-09-11 Encyclopedia of Microbiology Fourth Edition Five Volume Set gathers both basic and applied dimensions in this dynamic field that includes virtually all environments on Earth This range attracts a growing number of cross disciplinary studies which the encyclopedia makes available to readers from diverse educational backgrounds The new edition builds on the solid foundation established in earlier versions adding new material that reflects recent advances in the field New focus areas include Animal and Plant Microbiomes and Global Impact of Microbes The thematic organization of the work allows users to focus on specific areas e g for didactical purposes while also browsing for topics in different areas Offers an up to date and authoritative resource that covers the entire field of microbiology from basic principles to applied technologies Provides an organic overview that is useful to academic teachers and scientists from different backgrounds Includes chapters that are enriched with figures and graphs and that can be easily consulted in isolation to find fundamental definitions and concepts

Henry's Clinical Diagnosis and Management by Laboratory Methods E-Book Richard A. McPherson, Matthew R. Pincus, 2017-04-05 Recognized as the definitive reference in laboratory medicine since 1908 Henry's Clinical Diagnosis continues to offer state of the art guidance on the scientific foundation and clinical application of today's complete range of laboratory tests Employing a multidisciplinary approach it presents the newest information available in the field including new developments in technologies and the automation platforms on which measurements are performed Provides guidance on error detection correction and prevention as well as cost effective test selection Features a full color layout illustrations and visual aids and an organization based on organ system Features the latest knowledge on cutting edge technologies of molecular diagnostics and proteomics Includes a wealth of information on the exciting subject of omics these extraordinarily complex measurements reflect important changes in the body and have the potential to predict the onset of diseases such as diabetes mellitus Coverage of today's hottest topics includes advances in transfusion medicine and organ transplantation molecular diagnostics in microbiology and infectious diseases point of care testing pharmacogenomics and the microbiome Toxicology and Therapeutic Drug Monitoring chapter discusses the necessity of testing for therapeutic drugs that are more frequently being abused by users

Current and Emerging Technologies for the Diagnosis of Microbial Infections, 2015-11-23 Current and Emerging Technologies in Microbial Diagnostics the latest volume in the Methods in Microbiology series provides comprehensive cutting edge reviews of current and emerging technologies in the field of clinical microbiology The book features a wide variety of state of the art methods and techniques for the diagnosis and management of microbial

infections with chapters authored by internationally renowned experts This volume focuses on current techniques such as MALDI TOF mass spectroscopy and molecular diagnostics along with newly emerging technologies such as host based diagnostics and next generation sequencing Written by recognized leaders and experts in the field Provides a comprehensive and cutting edge review of current and emerging technologies in the field of clinical microbiology including discussions of current techniques such as MALDI TOF mass spectroscopy and molecular diagnostics Includes a broad range and breadth of techniques covered Presents discussions on newly emerging technologies such as host based diagnostics and next generation sequencing

Streptococcal Superantigens Anshu Babbar, 2015-07-24 This book provides ample knowledge and better understanding of *Streptococcus pyogenes* and their superantigens Many illustrations make this a highly informative book This book elucidates briefly *Streptococcus pyogenes* as a strict human pathogen possessing an array of virulence factors These help in evading host immune responses such as by the activation of non specific T cell subpopulations by producing superantigens This book mainly focuses on streptococcal superantigens and explains how they are different from conventional antigens Moreover it elaborates those diseases in which superantigens are actively involved Useful aspects of superantigens and different therapeutic interventions to eradicate superantigens induced diseases are also discussed

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