Neisseria

Molecular Mechanisms of Pathogenesis

Edited by

Caroline Attardo Genco and

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Neisseria Molecular Mechanisms Of Pathogenesis

Axel Cloeckaert, Daniel
Pletzer, Svetlana Khaiboullina

Neisseria Molecular Mechanisms Of Pathogenesis:

Neisseria C. A. Genco, Lee M. Wetzler, 2010 This important book provides research scientists advanced students clinicians and other professionals with a comprehensive update on the current understanding of the molecular mechanisms of pathogenesis in Neisseria Neisseria gonorrhoeae and Nesseria meningitidis are Gram negative diplococci N gonorrhoeae is the causative agent of gonorrhoeae and is transmitted via sexual contact N meningitidis is transmitted via respiratory droplets leading to colonization of the nasopharynx and can cause meningitis and septicemia. The book describes the latest up to date research theory and clinical significance of molecular mechanisms in meningococcal disease Leading authorities have contributed chapters on topics such as gene expression genomics biofilms denitrification adhesion strategies and mechanisms of cellular invasion A section on the host response to neisserial infection covers inate immunity complement apoptosis and acquired immunity while a section devoted to clinical correlation deals with vaccine development epidemiology and antibiotic resistance The book is highly recommended for microbiologists epidemiologists and clinicians involved with Neisseria research or meningococcal disease and it is a recommended text for all microbiology libraries Infektionskrankheiten des Menschen Gholamreza Darai, Michaela Handermann, Hans-Günther Sonntag, Lothar Zöller, 2012-01-03 Die 4 Auflage des Lexikon der Infektionskrankheiten des Menschen reflektiert den enormen Zuwachs des mikrobiologischen und klinischen Wissens neu beschriebene Erregerspezies neu entdeckte Resistenzmechanismen neue Impfstoffe und Antibiotika neue diagnostische Verfahren Alle Krankheitserreger des Menschen Bakterien Viren Pilze und Parasiten sind in alphabetischer Systematik beschrieben Die Kapitel wurden durchg ngig neu strukturiert mit st rkerer Gewichtung auf klinisch relevante Fakten wie Diagnostik und Therapie Pr vention und Ausbruchsmanagement Alle Kapitel wurden von hochkar tigen Spezialisten geschrieben zahlreiche neue Autoren sind dabei Mit Essaykapiteln zu hochaktuellen Ouerschnittthemen der modernen Infektiologie sowie Beitr gen zu Erkrankungen mit multiplen Erregerspektrum Dar ber hinaus finden Sie Verbreitungskarten der wichtigsten Erreger ausf hrliche Angaben zu Referenzzentren Expertenlaboratorien aktuelle Web Adressen und die neueste Schl sselliteratur Die beiliegende CD ROM erm glicht einen Sexually Transmitted Infections Nancy Malla, 2012-03-21 schnellen Zugriff auf die gew nschten Informationen Sexually transmitted infections STIs are infections that are spread primarily through person to person sexual contact There are more than 30 different sexually transmissible bacteria viruses and parasites STIs lead to high morbidity and complications This book entitled as Sexually Transmitted Infections is not a text book but provides useful information for general reference work for physicians researchers and students interested in the subject Each chapter is abundant in tips useful to general readers as well It also includes the Introductory chapter providing an overview with special emphasis on syndromic approach to the management of STIs in clinical setting

Stress Response in Pathogenic Bacteria Stephen P. Kidd, 2011-03 The ability of pathogenic bacteria to adapt to various chemical biochemical and physical conditions within the

human host and their ability to respond to stresses generated in these environments is a central feature of infectious diseases and the outcome of bacterial infection This book covers the key aspects of this rapidly developing field including the generation of stresses by the host immune system bacterial response to reactive chemicals and adaptation to environmental conditions of anatomical niches such as the gut mouth and urogenital tract It also addresses the increasing impor

Antibiotic Discovery and Development Thomas J. Dougherty, Michael J. Pucci, 2011-12-21 This volume covers all aspects of the antibiotic discovery and development process through Phase II III The contributors a group of highly experienced individuals in both academics and industry include chapters on the need for new antibiotic compounds strategies for screening for new antibiotics sources of novel synthetic and natural antibiotics discovery phases of lead development and optimization and candidate compound nominations into development Beyond discovery the handbook will cover all of the studies to prepare for IND submission Phase I safety and dose ranging progression to Phase II efficacy and Phase III capturing desired initial indications This book walks the reader through all aspects of the process which has never been done before in a single reference With the rise of antibiotic resistance and the increasing view that a crisis may be looming in infectious diseases there are strong signs of renewed emphasis in antibiotic research The purpose of the handbook is to offer a detailed overview of all aspects of the problem posed by antibiotic discovery and development

Efflux-Mediated Antimicrobial Resistance in Bacteria Xian-Zhi Li, Christopher A. Elkins, Helen I. Zgurskaya, 2016-11-09 This book written by leading international experts provides a comprehensive current examination of transport mediated antimicrobial resistance As a particularly powerful mechanism of multidrug resistance an in depth examination of efflux pumps is conducted with bacteria of major public health concern including Enterobacteriaceae Acinetobacter Neisseria Pseudomonas staphylococci and mycobacteria The content spans structural biochemistry and transport mechanisms of the major transporter families and considers individual drug efflux systems across various Gram positive and Gram negative species Genomic analysis of efflux pump distribution and their contribution to clinically relevant resistance are a major focus of the text Moreover interplay between drug efflux pumps and other key resistance mechanisms such as intrinsic drug impermeability inactivation and target alterations are discussed as well as their molecular expression based regulation and physiological functions beyond resistance involving biofilms stress response and pathogenicity Finally strategies are addressed to target this drug resistance mechanism with novel antimicrobials or drug inhibitor adjuvants Antimicrobial Peptides and Innate Immunity Pieter S. Hiemstra, Sebastian A. J. Zaat, 2013-02-01 Antimicrobial peptides have been the subject of intense research in the past decades and are now considered as an essential part of the defense system in bacteria plants animals and humans his book provides an update on these effector molecules of the innate immune system both for researchers who are already actively involved in the area and for those with a general interest in the topic The book starts with an overview of the evolution of cysteine containing antimicrobial peptides including defensins and the role of these

peptides in host defense in plants and micro organisms. The realization that antimicrobial peptides also display functions distinct from their direct antimicrobial action is the focus of the next chapters and puts these peptides center stage in immunity and wound repair Further chapters discuss the role of antimicrobial peptides in disease by providing an overview of mechanisms in bacterial resistance to antimicrobial peptides and a discussion of their role in inflammatory bowel disease cystic fibrosis lung disease and chronic obstructive pulmonary disease Finally the book shows how knowledge of the function of antimicrobial peptides and their regulation can be used to design new therapies for inflammatory and infectious disorders This is a very important area of research because of the increase in resistance of micro organisms to conventional antibiotics Therefore the use of synthetic or recombinant peptides or agents that stimulate the endogenous production of antimicrobial peptides provides an attractive alternative for conventional antibiotics Reviews in Microbial Pathogenesis Axel Cloeckaert, Daniel Pletzer, Svetlana Khaiboullina, 2025-03-13 The current research topic aims to publish high quality scholarly review papers on key topics in pathogenesis of infectious agents It aims to highlight recent findings in the field whilst emphasizing important directions and new possibilities for future inquiries We anticipate the research presented will promote discussion in the infectious disease community that will translate to best practice applications in clinical public health and policy settings Reviews in Microbial Pathogenesis collection welcomes full length or mini review papers in the areas of Microbial virulence and virulence factors Host pathogen interactions Immune escape mechanisms Experimental infection models Diagnostics to Pathogenomics of Sexually Transmitted Infections Sunit Kumar Singh, 2018-09-19 Comprehensively explores sexually transmitted diseases from epidemiology causative pathogens clinical impact and immunology to management strategies utilizing new strategies of genomics and next generation diagnostic tools Sexually transmitted infections STI are very common worldwide More than 20 different STIs have been identified and about 19 million men and women are infected each year in the United States alone This book looks at the complete picture of common STIs how they form evolve and transmit as well as how they can be treated and managed with modern techniques medicines and tools Diagnostics to Pathogenomics of Sexually Transmitted Infections runs the spectrum of discussion ranging from introduction of causative pathogen their pathogenesis to epidemiology immunology to anatomy and physiology of human genitalia and management strategies The book offers in depth chapter coverage on effect of probiotics on reproductive health mucosal immunity in sexually transmitted infections the role of circumcision in preventing STIs Human Immunodeficiency Virus HIV genital herpes molluscum contagiosum genital warts chlaymydia trachomatis donovanosis gonorrhoea treponematoses genital mycoplasms bacterial vaginosis vulvovaginal candidiasis chlaymydia scabies chancroid yeast infections and more Comprehensively compiles most of the major sexually transmitted infections Presents updated information on clinical aspects of sexually transmitted infections Examines the priorities in pathogenesis of human sexually transmitted infections and discusses new strategies of genomics and next generation diagnostic tools used for detection of

such pathogens Explores the future of rapid molecular diagnostic techniques and the challenges posed in the diagnosis of human STIs Includes bench to bedside content that will appeal to both basic and clinical researchers By offering the latest knowledge about recent advances in sexually transmitted infections in an interdisciplinary fashion Diagnostics to Pathogenomics of Sexually Transmitted Infections is the perfect book for virologists microbiologists infectious disease experts vaccinologists biomedical researchers clinicians pharmacologists and public health specialists Pathogenesis of Bacterial Infections George G. Jackson, Herbert Thomas, 2013-03-07 G G Jackson The pathogenesis of bacterial infection defines the dynamics at an interface of ecologic association of bacteria and host First it occurs at the portal of initial contact with a per missive target cell The infected cell provides either a passive or a specific receptor for the bacterium or its products to gether with ligands and an environment of helper and inhibiting factors. The result is bacterial replication to produce an im balance of a potentially commensal relation which under other defined conditions would be optimal for the survival of both the host and bacterial cells Virulence and pathogenesis are both absolute and relative terms They must be interpreted strictly according to the circumstances of site specific interactions of bacterial and host cells membrane composition structure characteristics and environmental substances. The bacteria themselves may have acquire or switch on or off under certain conditions the products or properties that produce cellular damage that we recognize as virulence Another result of bacterial infection may be to stimulate a normal host cell function to perform at a pathophysiologic level causing illness that we recognize as virulence A third marker of virulence may be the ability to invade a cell or tissue barrier and produce a pathologic effect at a site that is remote from the portal of commensal association or Bacterial Mechanisms of Antibiotic Resistance: A Structural Perspective Vassiliy Bavro, Graeme L. pathologic entry Conn, Christopher Davies, 2019-11-26 Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book John E. Bennett, Raphael Dolin, Martin J. Blaser, 2019-08-08 For four decades physicians and other healthcare providers have trusted Mandell Douglas and Bennett's Principles and Practice of Infectious Diseases to provide expert guidance on the diagnosis and treatment of these complex disorders The 9th Edition continues the tradition of excellence with newly expanded chapters increased global coverage and regular updates to keep you at the forefront of this vitally important field Meticulously updated by Drs John E Bennett Raphael Dolin and Martin J Blaser this comprehensive two volume masterwork puts the latest information on challenging infectious diseases at your fingertips Provides more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than any other infectious disease resource Features an increased focus on antibiotic stewardship new antivirals for influenza cytomegalovirus hepatitis C hepatitis B and immunizations and new recommendations for vaccination against infection with pneumococci papillomaviruses hepatitis A and pertussis Covers newly recognized enteroviruses causing paralysis E A71 E D68 emerging viral infections such as Ebola Zika Marburg SARS and MERS and important updates on prevention and

treatment of C difficile infection including new tests that diagnose or falsely over diagnose infectious diseases Offers fully revised content on bacterial pathogenesis antibiotic use and toxicity the human microbiome and its effects on health and disease immunological mechanisms and immunodeficiency and probiotics and alternative approaches to treatment of infectious diseases Discusses up to date topics such as use of the new PCR panels for diagnosis of meningitis diarrhea and pneumonia current management of infected orthopedic implant infections newly recognized infections transmitted by black legged ticks in the USA Borrelia miyamotoi and Powassan virus infectious complications of new drugs for cancer new drugs for resistant bacteria and mycobacteria new guidelines for diagnosis and therapy of HIV infections and new vaccines against herpes zoster influenza meningococci PPID continues its tradition of including leading experts from a truly global community including authors from Australia Canada and countries in Europe Asia and South America Includes regular updates online for the life of the edition Features more than 1 500 high quality full color photographs with hundreds new to this edition Enhanced eBook version included with purchase which allows you to access all of the text figures and references from the book on a variety of devices Research Awards Index ,1987 Sexually Transmitted Infections and Sexually Transmitted Diseases Gerd Gross, Stephen K. Tyring, 2011-08-19 This comprehensive up to date reference book is intended to serve as the standard guide in the field It covers the epidemiology and etiology of the various sexually transmitted infections and associated diseases reviews novel diagnostic methods and discusses in depth both new and established treatment methods An important part of the book is devoted to prevention and particularly to immunoprevention by vaccination Related issues such as sexual abuse psychosocial aspects and economic and political considerations are also included The expertise of many worldwide renowned specialists and superb color illustrations make this book a valuable resource for practitioners from a variety of medical disciplines It has a reader friendly structure with core messages and take home pearls

Meningococcal Disease: Comprehensive Review of Etiology, Diagnosis, and Therapeutic Strategies Dr. Spineanu Eugenia, 2025-02-19 Meningococcal Disease Comprehensive Review of Etiology Diagnosis and Therapeutic Strategies is an authoritative treatise that delves into the multifaceted aspects of meningococcal disease This detailed exploration covers the pathogenesis clinical manifestations and diagnostic criteria of Neisseria meningitidis induced infections It provides an in depth analysis of the molecular mechanisms biochemical interactions and host factors influencing disease progression The treatise also examines advanced diagnostic techniques therapeutic approaches and emerging research in the field Emphasizing a holistic perspective it integrates medical biochemistry and support strategies to offer a thorough understanding of the disease Ideal for healthcare professionals and researchers this comprehensive resource enhances knowledge of meningococcal disease offering valuable insights for improved patient care and management Explore the latest advancements and integrative approaches to combat this severe bacterial infection effectively

Bacterial Adhesion to Host Tissues Michael Wilson, 2010-01-28 This book is about the adhesion of bacteria to their human hosts Although adhesion is

essential for maintaining members of the normal microflora in on their host it is also the crucial first stage in any infectious disease It is important therefore to fully understand the mechanisms underlying bacterial adhesion so that we may be able to develop methods of maintaining our normal protective microflora and of preventing pathogenic bacteria from initiating an infectious process These topics are increasingly important because of the growing prevalence of antibiotic resistant bacteria and consequently the need to develop alternative approaches for the prevention and treatment of infectious diseases This book describes the bacterial structures responsible for adhesion and the molecular mechanisms underlying the adhesion process It also deals with the consequences of adhesion for both the adherent bacterium and the host cell tissue to which it Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases John E. Bennett, MD, MACP, Raphael Dolin, MD, Martin J. Blaser, MD, 2014-08-28 After thirty five years Mandell Douglas and Bennett's Principles and Practice of Infectious Diseases 8th Edition is still the reference of choice for comprehensive global guidance on diagnosing and treating the most challenging infectious diseases Drs John E Bennett and Raphael Dolin along with new editorial team member Dr Martin Blaser have meticulously updated this latest edition to save you time and to ensure you have the latest clinical and scientific knowledge at your fingertips With new chapters expanded and updated coverage increased worldwide perspectives and many new contributors Mandell Douglas and Bennett's Principles and Practice of Infectious Diseases 8th Edition helps you identify and treat whatever infectious disease you see Get the answers to questions you have with more in depth coverage of epidemiology etiology pathology microbiology immunology and treatment of infectious agents than you ll find in any other infectious disease resource Find the latest diagnoses and treatments for currently recognized and newly emerging infectious diseases such as those caused by avian and swine influenza viruses Put the latest knowledge to work in your practice with new or completely revised chapters on influenza new pandemic strains new Middle East respiratory syndrome MERS virus probiotics antibiotics for resistant bacteria antifungal drugs new antivirals for hepatitis B and C Clostridium difficile treatment sepsis advances in HIV prevention and treatment viral gastroenteritis Lyme disease Helicobacter pylori malaria infections in immunocompromised hosts immunization new vaccines and new recommendations and microbiome Benefit from fresh perspectives and global insights from an expanded team of international contributors Find and grasp the information you need easily and rapidly with newly added chapter summaries These bulleted templates include diagnosis therapy and prevention and are designed as a quick summary of the chapter and to enhance relevancy in search and retrieval on Expert Consult Stay current on Expert Consult with a thorough and regularly scheduled update program that ensures access to new developments in the field advances in therapy and timely information Access the information you need easily and rapidly with new succinct chapter summaries that include diagnosis therapy and prevention Experience clinical scenarios with vivid clarity through a richly illustrated full color format that includes 1500 photographs for enhanced visual guidance **Sexually Transmitted Infections - E-book** Bhushan Kumar, Somesh

Gupta, 2013-09-30 Covers all aspects historical epidemiological diagnostic clinical preventative public health and medico legal of STIs in complete detail with a special emphasis on STIs in special groups migrants homosexuals and sexually abused Covers basic and laboratory sciences extensively to blend with the basics required by the clinician for proper understanding of the disease process Clinical photographs illustrations photographs of specimens and cultures histopathology flow charts and line diagrams are given extensively throughout the text to make relevant clinical situation self explanatory Has very useful and practical information for even the clinician in the periphery where the investigative component is either non existent or very basic and many new drugs are not available or unaffordable Management of HIV in adults and children in resource poor countries has been covered extensively along with syndromic management of STIs This enables a physician to choose from approaches in a particular situation depending upon the available means laboratory or therapeutic Covers sexual dysfunction in both men and women and the basics of human sexual behavior and sexual health Section Editors and Contributors from all continents of the world have made this a truly global reference book It is a useful reference text for epidemiologists public health experts clinicians microbiologists health workers social organizations and counselors working in the field of STIs sexual health and HIV Bacterial Invasion of Host Cells Richard J. Lamont, 2004-03-29 This book concerns the intimate association between bacteria and host cells Many bacterial pathogens are able to invade and survive within cells at mucosal membranes Remarkably the bacteria themselves orchestrate this process through the exploitation of host cellular signal transduction pathways Intracellular invasion can lead to disruption of host tissue integrity and perturbation of the immune system An understanding of the molecular basis of bacterial invasion and of host cell adaptation to intracellular bacteria will provide fundamental insights into the pathophysiology of bacteria and the cell biology of the host The book details specific examples of bacteria that are masters of manipulation of eukaryotic cell signaling and relates these events to the broader context of host pathogen interaction Written by experts in the field this book will be of interest to researchers and graduate students in microbiology immunology biochemistry as well as molecular medicine and dentistry

Molecular Aspects of Host-Pathogen Interactions Society for General Microbiology. Symposium, M. A. McCrae, Society for General Microbiology, 1997-05-13 Reports the latest advances in defining the molecular basis of infection in both bacterial and viral systems

Neisseria Molecular Mechanisms Of Pathogenesis Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Neisseria Molecular Mechanisms Of Pathogenesis**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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