

# ***Neisseria***

## **Molecular Mechanisms of Pathogenesis**

Edited by

**Caroline Attardo Genco  
and  
Lee Wetzler**



# Neisseria Molecular Mechanisms Of Pathogenesis

**Gerd Gross, Stephen K. Tying**



## **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 gonorrhoeae* and *Neisseria 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 innate 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 Sexually Transmitted Infections Nancy Malla, 2012-03-21 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 *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 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

Diagnostics to Pathogenomics of Sexually Transmitted Infections Sunit Kumar Singh, 2018-12-06 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 chlamydia trachomatis donovanosis gonorrhoea treponematoses genital mycoplasmas bacterial vaginosis vulvovaginal candidiasis chlamydia 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

**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

#### **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

*Sexually Transmitted Infections and Sexually Transmitted Diseases* Gerd Gross,Stephen K. Tying,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

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 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 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

**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

**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 [Research Awards Index](#) ,1989 [Bacterial Mechanisms of Antibiotic Resistance: A Structural Perspective](#) Vassiliy Bavro, Graeme L. Conn, Christopher Davies, 2019-11-26 [Nanoparticles in Translational Science and Medicine](#) ,2011-11-14 This volume explores some of the most exciting recent advances in basic research on nanoparticles in translational science and medicine and how this knowledge is leading to advances in the various fields This series provides a forum for discussion of new discoveries approaches and ideas Contributions from leading scholars and industry experts Reference guide for researchers involved in molecular biology and related fields [Biomedical Index to PHS-supported Research: pt. A. Subject access A-H](#) ,1992 **Biomedical Index to PHS-supported Research** ,1991 **Advances in Microbial Physiology** ,2022-04-28 Advances in Microbial Physiology Volume 150 in this important serial highlights new advances in the field with this new volume including content by an international board of authors Chapters in this new release include Organization of respiratory chains in the bacterial cell Anaerobic methane oxidizing archaea Dawn of the DedA the structure and function of the DedA family of integral membrane proteins associated with bacterial viability and antimicrobial resistance Nickel an essential virulence determinant of Helicobacter pylori trafficking pathways and their targeting by bismuth Dissimilatory sulfur compounds oxidation in thermophilic and chemolithoautotrophic bacteria belonging to the Aquificales order and much more Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in Advances in Microbial Physiology serial **Advanced Physiology and Pathophysiology** Nancy Tkacs, Nancy C. Tkacs, Linda Herrmann, Randall Johnson, 2020-03-26 Note to Readers Publisher does not guarantee quality or access to any included digital components if book is purchased through a third party seller Specifically designed for future healthcare providers who will diagnose manage and prescribe This advanced physiology and pathophysiology text is designed to address the specific learning needs of future nurse practitioners physician assistants and other advanced healthcare providers caring



for patients across the lifespan Focusing on practical applications of physiology it facilitates in depth understanding of important pathophysiological concepts as they relate to major disorders commonly seen in clinical practice and includes comprehensive pediatric and geriatric considerations This knowledge is crucial to providing the foundation required to be an informed and confident clinical decision maker The author team includes experienced clinicians and educators nurses and nurse practitioners physician assistants doctors of pharmacy physicians and basic scientists This collaboration has produced a text that carefully details and richly illustrates the cellular structure and function of each organ system and mechanisms of associated major clinical disorders Uniquely interweaving aspects of organ function during healthy states with disease associated changes the text emphasizes and extends the basic science foundation to practical clinical applications The text promotes a deep understanding of cellular function in health and disease that provides the bedrock knowledge required to master pharmacology for prescriptive practice Equally important the solid foundation of applied pathophysiological mechanisms offered in this text prepares the student clinician to care for patients with a broad variety of disorders This resource not only provides a deep dive into pathophysiology but it also examines why patients often present with particular symptoms the rationale for ordering specific diagnostic tests and interpretation of results and common management strategies that proceed from the underlying pathophysiology Key Features Designed explicitly to build a foundation for pharmacology and clinical courses that lead to successful clinical practice and prescribing Includes comprehensive lifespan considerations with key insights from specialists in pediatric and geriatric pathophysiology Provides a complete chapter on the basic principles of genetics and genomics with coverage of genetic variations assessment and genomics woven throughout the book Integrates thought questions and case studies to promote discussion and synthesis of information Offers a unique Bridge to Clinical Practice in each chapter to translate science to patient care Includes more than 500 images to illustrate complex scientific concepts Summarizes the contents succinctly with handy key points at the end of each chapter Provides access to the fully searchable ebook including student ancillaries on Springer Publishing Connect™

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## **Table of Contents Neisseria Molecular Mechanisms Of Pathogenesis**

1. Understanding the eBook Neisseria Molecular Mechanisms Of Pathogenesis
  - The Rise of Digital Reading Neisseria Molecular Mechanisms Of Pathogenesis
  - Advantages of eBooks Over Traditional Books
2. Identifying Neisseria Molecular Mechanisms Of Pathogenesis
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in a Neisseria Molecular Mechanisms Of Pathogenesis
  - User-Friendly Interface
4. Exploring eBook Recommendations from Neisseria Molecular Mechanisms Of Pathogenesis
  - Personalized Recommendations
  - Neisseria Molecular Mechanisms Of Pathogenesis User Reviews and Ratings
  - Neisseria Molecular Mechanisms Of Pathogenesis and Bestseller Lists
5. Accessing Neisseria Molecular Mechanisms Of Pathogenesis Free and Paid eBooks
  - Neisseria Molecular Mechanisms Of Pathogenesis Public Domain eBooks
  - Neisseria Molecular Mechanisms Of Pathogenesis eBook Subscription Services

- Neisseria Molecular Mechanisms Of Pathogenesis Budget-Friendly Options
- 6. Navigating Neisseria Molecular Mechanisms Of Pathogenesis eBook Formats
  - ePub, PDF, MOBI, and More
  - Neisseria Molecular Mechanisms Of Pathogenesis Compatibility with Devices
  - Neisseria Molecular Mechanisms Of Pathogenesis Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Neisseria Molecular Mechanisms Of Pathogenesis
  - Highlighting and Note-Taking Neisseria Molecular Mechanisms Of Pathogenesis
  - Interactive Elements Neisseria Molecular Mechanisms Of Pathogenesis
- 8. Staying Engaged with Neisseria Molecular Mechanisms Of Pathogenesis
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Neisseria Molecular Mechanisms Of Pathogenesis
- 9. Balancing eBooks and Physical Books Neisseria Molecular Mechanisms Of Pathogenesis
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Neisseria Molecular Mechanisms Of Pathogenesis
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Neisseria Molecular Mechanisms Of Pathogenesis
  - Setting Reading Goals Neisseria Molecular Mechanisms Of Pathogenesis
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Neisseria Molecular Mechanisms Of Pathogenesis
  - Fact-Checking eBook Content of Neisseria Molecular Mechanisms Of Pathogenesis
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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