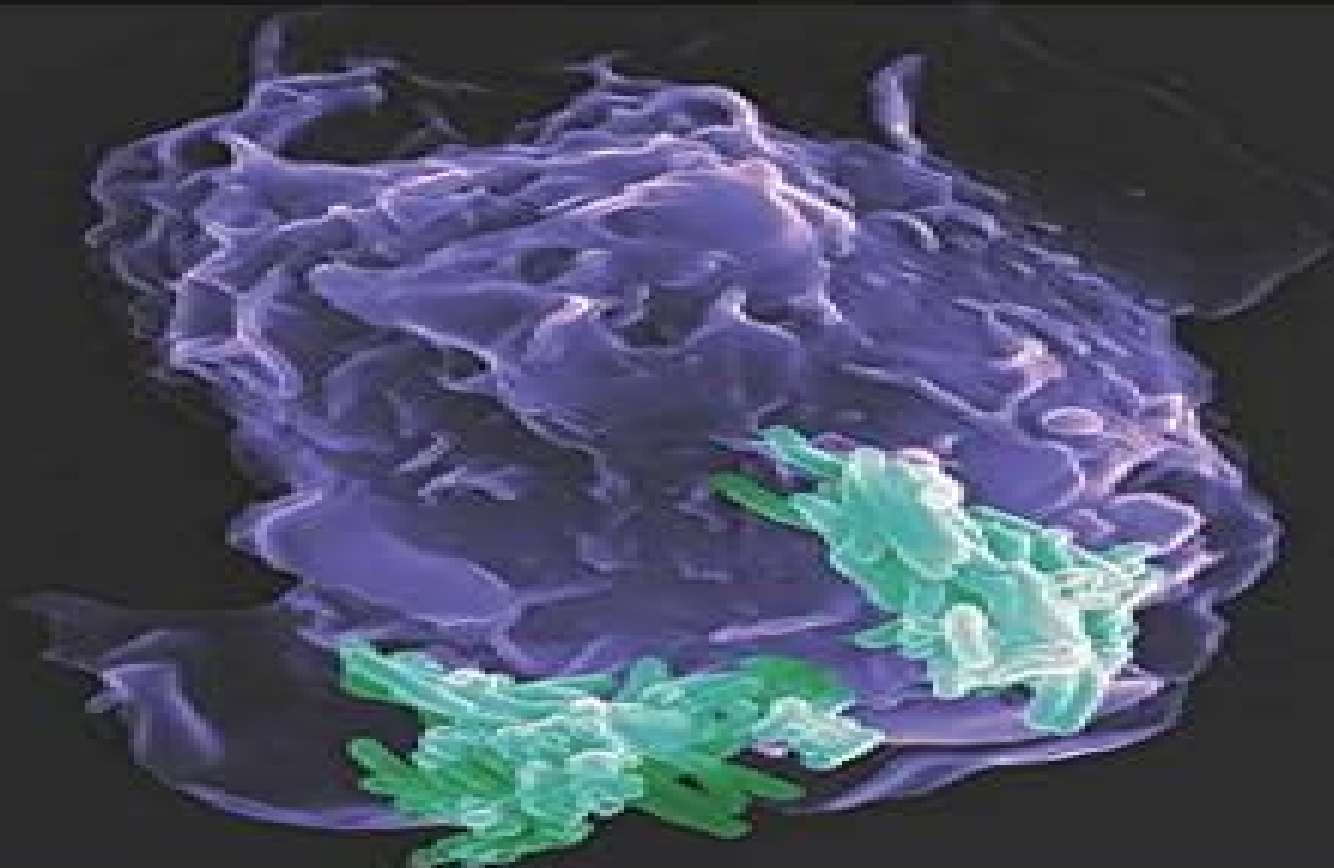


Tuberculosis



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Tuberculosis Cold Spring Harbor Perspectives In Medicine

Anthony J. Hickey



Tuberculosis Cold Spring Harbor Perspectives In Medicine:

Tuberculosis Jean-Marie Kayembe, 2018-09-26 Tuberculosis is an ancient disease with a high incidence and mortality rate unequally distributed worldwide Epidemiological indicators but also risk factors play a key role in the natural history of the disease and need to be regularly addressed Low and middle income countries are not prepared for appropriate response and are also the most affected The incidence of this extrapulmonary disease is far from being clearly established Epidemiological studies in different geographical areas will help in this field

Emerging Paradigms in Delivery Systems for Antitubercular Therapy Rajeev Sharma, Neeraj Mishra, Laxmikant Gautam, S.P. Vyas, 2025-04-23 Emerging Paradigms in Delivery Systems for Antitubercular Therapy provides an up to date and thorough overview of the state of the art of concepts design and recent advances in nanomedicines and nanobiotechnology based strategies for the treatment of tuberculosis The book enables researchers to prepare a variety of nanotechnology based strategies investigate their properties and discover their uses and applications in antitubercular therapy focusing on advanced nanomaterials that are utilized for encapsulation of nucleic acid mRNA DNA and tuberculosis vaccination This book covers all major topics that have shaped the development of nanomedicine and propelled it to its current place at the forefront of Nanotechnology based treatment innovation It will be a welcomed resource for researchers and readers with more and more challenging therapy and biologicals with their possible modifications to be used for the effective therapy of tuberculosis Focuses on advanced nanomaterials that are utilized for encapsulation of nucleic acid mRNA DNA and tuberculosis vaccination Covers all major topics that have shaped the development of nanomedicine and propelled it to its current place at the forefront of nanotechnology based treatment innovation Provides assistance to researchers and readers with more and more challenging therapy and biologicals with their possible modifications to be used for effective therapies in tuberculosis

Recent Advancements in Tuberculosis Drug Discovery Vivek P. Chavda, Mahesh T. Chhabria, Divya M. Teli, 2025-12-02 Tuberculosis is a major global health threat even today claiming the lives of millions each year despite the availability of effective treatments for the disease The emergence of drug resistance and limitations of existing therapies demand the continuous development of new and improved drugs This new book provides a comprehensive overview of the latest progress in this field covering state of the art approaches to untangle the complexities of drug resistance The book explores diagnosis methods drug resistance mechanisms and limitations in existing drugs and proposes strategies such as structural modifications efflux pathway targeting and host directed therapies to overcome resistance It also looks at artificial intelligence for TB management Recent advancements in tuberculosis control vaccine development and biomarkers are also covered along with visions for the future of TB drug discovery offering a glimpse into the evolving landscape of combating tuberculosis

Delivery Systems for Tuberculosis Prevention and Treatment Anthony J. Hickey, 2016-11-14 Provides a review of novel pharmaceutical approaches for Tuberculosis drugs Presents a novel perspective on tuberculosis prevention and treatment Considers the nature of disease

immunological responses vaccine and drug delivery disposition and response Multidisciplinary appeal with contributions from microbiology immunology molecular biology pharmaceuticals pharmacokinetics chemical and mechanical engineering

Diagnosis and Treatment of Mycobacterial Infections Liang Wang,Lijun Bi,Xuejiao Hu,2025-08-20 Mycobacteria comprise a vast group of obligate and opportunistic pathogens The genus Mycobacterium is primarily divided into three groups the Mycobacterium tuberculosis complex MTBC Nontuberculous mycobacteria NTM and Mycobacterium leprae MTBC includes Mycobacterium tuberculosis Mycobacterium bovis and Mycobacterium canettii among others Approximately 98% of human tuberculosis TB cases are caused by M tuberculosis Currently TB still poses significant challenges to global health According to the World Health Organization an estimated 10.8 million people fell ill with TB worldwide in 2023 among whom 1.25 million people died from the disease The United Nations Sustainable Development Goals SDGs put ending the TB epidemic by 2030 among its health targets As for NTM also known as atypical mycobacteria they are a group of bacteria found in natural environments worldwide including soil dust and water Unlike MTBC which causes contagious diseases NTM infections primarily affect the lungs skin and soft tissues with no general contagion However the symptoms of NTM infection may be similar to those of MTBC making it challenging to distinguish between MTBC and NTM infections Therefore rapid diagnosis and precision treatment of mycobacterial infections are essential for the effective control and efficient eradication of these bacterial pathogens In this book the authors focused on the various aspects of the mycobacterial species providing updated knowledge about phylogenetic analysis antibiotic resistance rapid diagnosis and treatment strategies of these bacterial pathogens The integration of computational analysis and experimental evidence presented in this book will make it a reliable guideline for both microbiological researchers and healthcare providers seeking updated information on the diagnosis and treatment of mycobacterial infections

Healthcare Access Umar Bacha,Urška Rozman,Sonja Šostar Turk,2020-05-27 Healthcare Access Regional Overviews is a compilation of ten chapters consisting of case studies research works reviews and expert opinions providing insight on the previous and current developments in the field of hygiene and infection control with practices to prevent or minimize the spread of infectious diseases The book also addresses the status and healthcare access of the most neglected segments in less developed countries All chapters are written by global researchers are edited by experts in the field The information presented in this work can be replicated at different levels to accelerate timely and quality healthcare services

Biological Insights of Multi-Omics Technologies in Human Diseases Aarif Ali,Muneeb U Rehman,Sheikh Bilal Ahmad,Azher Arafah,2024-05-23 Biological Insights of Multi Omics Technologies in Human Diseases provides detailed information about the basics of multi omic technologies including ethics historical perspective science drug discovery and development and metabolism With a strong focus on the practical application of omics approaches in cancer cardiovascular neurology respiratory viral gastroenterology autoimmune diseases PCOS and tuberculosis this book also includes special topics related to COVID 19 and Machine learning approaches In 13 chapters this

book provides comprehensive coverage of the challenges and opportunities facing the therapeutic implications of multi omics from academic regulatory pharmaceutical socio ethical and economic perspectives The chapters are designed in a well defined chronology such that readers will intuitively understand the central idea This book is an ideal resource for health professionals scientists and researchers nutritionists health practitioners students and all those who wish to broaden their knowledge in the allied field Explains the in depth role of multi omics on drug discovery metabolism diseases and highlights progress in both the research and clinical areas of computation as well as relevant implementation experience and challenges Describes the practice of multi omic technologies in the treatment of several diseases Includes practical application and machine learning approaches of multi omics Crowley's An Introduction to Human Disease
Reisner,Howard Reisner,2016-08-02 Preceded by An introduction to human disease Leonard V Crowley 9th ed c2013

Drug Repurposing Shailendra K. Saxena,2022-06-01 This book focuses on various aspects and applications of drug repurposing the understanding of which is important for treating diseases Due to the high costs and time associated with the new drug discovery process the inclination toward drug repurposing is increasing for common as well as rare diseases A major focus of this book is understanding the role of drug repurposing to develop drugs for infectious diseases including antivirals antibacterial and anticancer drugs as well as immunotherapeutics *Disease Control Priorities, Third Edition (Volume 6)* King K. Holmes,Stefano Bertozzi,Barry R. Bloom,Prabhat Jha,2017-11-06 Infectious diseases are the leading cause of death globally particularly among children and young adults The spread of new pathogens and the threat of antimicrobial resistance pose particular challenges in combating these diseases Major Infectious Diseases identifies feasible cost effective packages of interventions and strategies across delivery platforms to prevent and treat HIV AIDS other sexually transmitted infections tuberculosis malaria adult febrile illness viral hepatitis and neglected tropical diseases The volume emphasizes the need to effectively address emerging antimicrobial resistance strengthen health systems and increase access to care The attainable goals are to reduce incidence develop innovative approaches and optimize existing tools in resource constrained settings

Whispering the Techniques of Language: An Mental Journey through **Tuberculosis Cold Spring Harbor Perspectives In Medicine**

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