The only book to place a clear emphasis on the increasing number of patients suffering from both tuberculosis and AIDS, unique in combining expertise from both fields.

The immune deficiency AIDS leads to a drastic increase in susceptibility to Tuberculosis. Accordingly, co-infections of tuberculosis (TB) and AIDS have increased dramatically over the last decades and have already killed more than 5 million people worldwide. Currently, no vaccines are available for either of these diseases leaving doctors with limited options for prevention.

This perfect storm of pandemics is analysed and explained for the first time in this groundbreaking title, edited by two of the most accomplished experts in this area, Prof. Dr. h.c. Stefan Kaufmann at the Max-Planck Institute for infectious diseases in Berlin, Germany, and Prof. Dr. Bruce Walker, director of the Ragon Institute of MGH, MIT and Harvard in Boston, USA.

This title brings together scientists from the forefront of research to explore and combine state-of-the-art studies in drug interactions and disease therapies, providing the latest information about prevention, therapy, and diagnosis of both tuberculosis and AIDS. Using a multi-disciplinary approach the authors bring together the issues surrounding treatment of co-infection by highlighting the problems of treatment overlap and providing new data demonstrating exactly how this deadly liaison plays out.

Early chapters focus on immunology and the problems facing vaccination strategies for both diseases. Currently no vaccines exist for either disease and the coexistence of both pathogens in a single patient complicates the research for new preventive, diagnostic or therapeutic approaches.

Later chapters deal with some of the most threatening consequences of this co-infection, such as the emergence of drug resistant TB. These chapters also deal with the need to simultaneously treat both infections, highlighting the major problem of drug interaction if two treatments which have been researched in isolation are given to one individual.

Together the contributing authors offer a refreshingly new and engaging analysis of this most challenging of topics and offer new therapeutic approaches by providing comprehensive understanding of both diseases.

This title is of strong interest to a broad range of research communities, from microbiologists and virologists to immunologists and medical doctors specializing in TB and AIDS treatment as well as to the pharmaceutical and biotechnological Industries.

Publication Year: 2009
Edition: 1st
Author/Editor: Kaufmann, Stefan H.E. and Walker, Bruce D.