Kumar / Singh / Abhishek

Leishmaniasis

Pathogenesis and Potential Treatment

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his book covers the history, biology, pathogenesis, clinical manifestations, and the latest advancements in diagnosis, treatment, and control strategies against leishmaniasis. Chapter 1 presents the life cycle of Leishmania parasites, focusing on vector biology and transmission dynamics, while elucidating the mechanisms of infection and disease progression. The clinical manifestations of cutaneous, visceral, and mucocutaneous leishmaniasis are examined in detail, alongside the immune response of the host and the evasion strategies by the parasite. It also investigates the genetic and molecular diversity of Leishmania, highlighting their virulence mechanisms, and reviews diagnostic methods from traditional techniques to advanced molecular diagnostics. The chapter also covers the current therapeutic approaches, including potential drugs and combination therapies along with integrated vector management strategies for effective disease control. The book explores preventive measures, community interventions, and public health strategies, addressing challenges in leishmaniasis research and identifying knowledge gaps. It presents real-world applications and outcomes through case studies and clinical trials. This book is useful for researchers and students of infectious diseases, tropical medicine, and parasitology. Key Features: - Explores the pathogenesis and epidemiology of leishmaniasis, providing a global perspective on its public health impact - Details the life cycle of Leishmania parasites, focusing on vector biology, transmission dynamics, and mechanisms of infection - Examines the clinical manifestations of cutaneous, visceral, and mucocutaneous leishmaniasis, including the host immune response and parasite evasion strategies - Reviews current therapeutic approaches, including potential drugs, combination therapies, and integrated vector management strategies for effective control - Presents preventive measures, community interventions, public health strategies, and the challenges in leishmaniasis research

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