

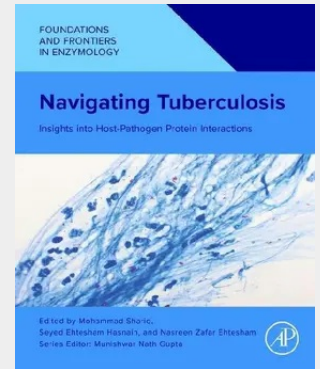
Navigating Tuberculosis

Insights Into Host-Pathogen Protein Interactions

Navigating Tuberculosis: Insights into Host-Pathogen Protein Interactions, the latest release in the Foundations and Frontiers in Enzymology series, explores the interactions between host proteins and the tuberculosis pathogen, *Mycobacterium tuberculosis* (M. tb), emphasizing their roles in virulence and pathogenesis. The book delves into mechanistic insights, focusing on their roles in modulating innate and adaptive immunity and understanding TB pathomechanisms by elucidating the interplay between host defenses and M. tb infection. It provides a foundation for developing targeted mitigation strategies and discusses key regulatory pathways and protein factors involved in host-pathogen interactions, informing the design and implementation of innovative approaches to combat TB. This comprehensive volume aims to advance knowledge and strategies to combat tuberculosis, aligning with the World Health Organization's goal of eradicating TB by 2035 by addressing the need for up-to-date information on host-pathogen interactions in tuberculosis and incorporating the latest research findings and advancements. It highlights emerging therapeutic targets among host and TB pathogen proteins and integrates multidisciplinary approaches from microbiology, immunology, and molecular biology, offering a holistic perspective on TB pathophysiology. Researchers will find detailed discussions on key host proteins involved in tuberculosis pathogenesis, the molecular tactics employed by M. tb to subvert host defenses, and host-mediated inhibition strategies targeting M. tb.

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161,50 €

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Nicht mehr lieferbar

Artikelnummer: 9780443277351

Medium: Buch

ISBN: 978-0-443-27735-1

Verlag: Elsevier Science

Erscheinungstermin: 19.08.2026

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2026

Produktform: Kartoniert

Gewicht: 449 g

Seiten: 454

Format (B x H): 191 x 235 mm

