With an estimated 1.3 million new cases and causing more than 20,000 deaths every year, Leishmaniasis continues to be a menace in countries across the globe. The absence of an anti-Leishmania vaccine, the toxicity of current anti-parasite drugs, coupled with the rapid emergence of drug resistant Leishmania strains remain significant challenges for disease control. This has spurred a plethora of research initiatives into the parasite biology, parasite-host interaction, mechanisms of disease pathogenesis, drug development and molecular mechanism of drug resistance. Insights obtained from various such studies are essential for the development of novel anti-Leishmania treatment strategies.

In this timely book respected Leismania experts distil the important current research highlighting the most insightful discoveries in the field. Topics covered include: modulation of host miRNA; heat shock proteins; Iron in the Leishmania-macrophage interaction; oxidative and nitrosative stress response; cell death; strategies for immune evasion; STAT signalling; parasite modulation of toll-like receptors in macrophages; T cells in Leishmania infection; vaccine biology; inhibitors of Leishmania DNA topoisomerases; and mechanism of drug resistance in visceral Leishmaniasis.

An essential text for everyone in the Leishmania community and recommended for researchers working in related fields.

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**Chapter 2.** Heat Shock Proteins of Leishmania: Chaperones in the Driver’s Seat. *Joachim Clos and Antje Hombach*

**Chapter 3.** Role of Iron in Leishmania-Macrophage Interaction. *Kavita Bharati, Saswat Kumar Bal, Shalini Saini, Vikash Bhardwaj and Chinmay K. Mukhopadhyay*

**Chapter 4.** Oxidative and Nitrosative Stress Response in Leishmania. *Swati Pal and Subrata Adak*

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**Chapter 8.** Leishmania Modulates Toll-like Receptor Signaling in Macrophages. *Soumya kanti Ghosh, Kalavati M. Lalsare and Bhaskar Saha*

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