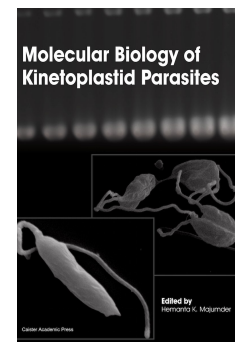


# Molecular Biology of Kinetoplastid Parasites



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Kinetoplastid parasites are responsible for a number of serious protozoal diseases with limited treatment options and few commercially available vaccines. Viewed globally, these parasites pose an increasing threat to human health and welfare.

Written by a team of authors active in the field of *Leishmania* and *Trypanosoma* research, this volume reviews the current research in kinetoplastid parasites. With an emphasis on cellular and molecular biology, areas covered include epigenetic regulation, cellular defence, manipulation of host macrophages, B lymphocyte response, adhesion and invasion of host tissues, immune evasion, immunotherapy, hemeproteins, phospholipids biosynthesis and DNA topoisomerases. A common theme throughout the book is the identification of new therapeutic targets for drug development.

This timely and up-to-date volume is essential reading for anyone working on kinetoplastid parasites and will also be of interest to parasitologists, immunologists and drug development researchers. All parasitology laboratories should have a copy of this important reference volume.

- Chapter 1.** Genome-wide Profiling of Unique Domain Architectures Reveals Novel Epigenetic Regulators of *Leishmania infantum* (V. S. Gowri, Nimisha Mittal, Rohini Muthuswami and Rentala Madhubala)
- Chapter 2.** Role of Hypoxia Inducible Factor-1 in *Leishmania*-Macrophage Interaction: A New Therapeutic Paradigm (Amit Kumar Singh, Vivek G. Vishnu, Shalini Saini, Sandhya Sandhya and Chinmay K. Mukhopadhyay)
- Chapter 3.** Response of B Lymphocyte During *Leishmania* Infection (Koushik Mondal and Syamal Roy)
- Chapter 4.** Cellular Defence of the *Leishmania* Parasite (Sanchita Das and Chandrima Shaha)
- Chapter 5.** Molecular Regulation of Macrophage Class Switching in Indian Post-kala-azar Dermal Leishmaniasis (PKDL) (Mitali Chatterjee, Srijia Mouluk, Debkanya Dey, Debanjan Mukhopadhyay, Shibabrata Mukherjee and Susmita Roy)
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