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Titolo	Pathobiology of Parasitic Protozoa: Dynamics and Dimensions [[electronic resource] /] / edited by Budhaditya Mukherjee, Arijit Bhattacharya, Rupkatha Mukhopadhyay, Bruno Guedes Alcoforado Aguiar
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Descrizione fisica	1 online resource (230 pages)
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Soggetti	Parasitology Inflammation Immunology
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1.Nanotechnology-based promising therapeutic approaches against protozoan -- 2. Intertwining of retinoic acid and cholesterol pathway and its consequences in Leishmania donovani infected macrophages -- 3. Role and pathophysiology of protozoan parasites causing liver diseases -- 4. Cognitive Impairment in Parasitic Protozoan Infection -- 5. Cycling Within a Cell: Cell Cycle of Intracellular Kinetoplastid Parasites -- 6. Elaborating role of aspartyl protease in host modulation and invasion in Apicomplexan parasites Plasmodium and Toxoplasma -- 7. Leishmaniasis: Tissue tropism in relation to the species diversity -- 8. Transcriptional control in Entamoeba: Something old, Something new -- 9. A perspective on mathematical modeling and machine learning models to predict Visceral Leishmaniasis -- 10. Elucidating the Role of miRNA in Inflammasome Mediated Immune Response in Leishmaniasis -- 11. An Insight into Immunopathology of Leishmaniasis.
Sommario/riassunto	This book illustrates the importance and significance of the systems approach in deciphering diverse aspects of host-parasite interactions in infection dynamics. It describes the complex issues and state-of-the-art progress in the infection biology of parasitic protozoa. The book explores the current concepts and paradigms of gene expression,

metabolome, and immune remodeling in these diseases. The chapters encompass updates on the parasitic tropism, co-evolution, systemic responses in hosts, and translational approaches. It provides an overview of the parasite's efficient ways of exploiting host molecules and describes pathways for their survival, differentiation, and replication within the host cells. The book also delineates the role of inflammasomes and their activation in response to the protozoan parasite. The book discusses technological progress and machine learning-based modeling approaches to revisit parasitic infection from a non-conventional perspective. Collectively this book offers a comprehensive purview of concepts and paradigms in parasitic infection in the form of an updated yet discernible elucidation.

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