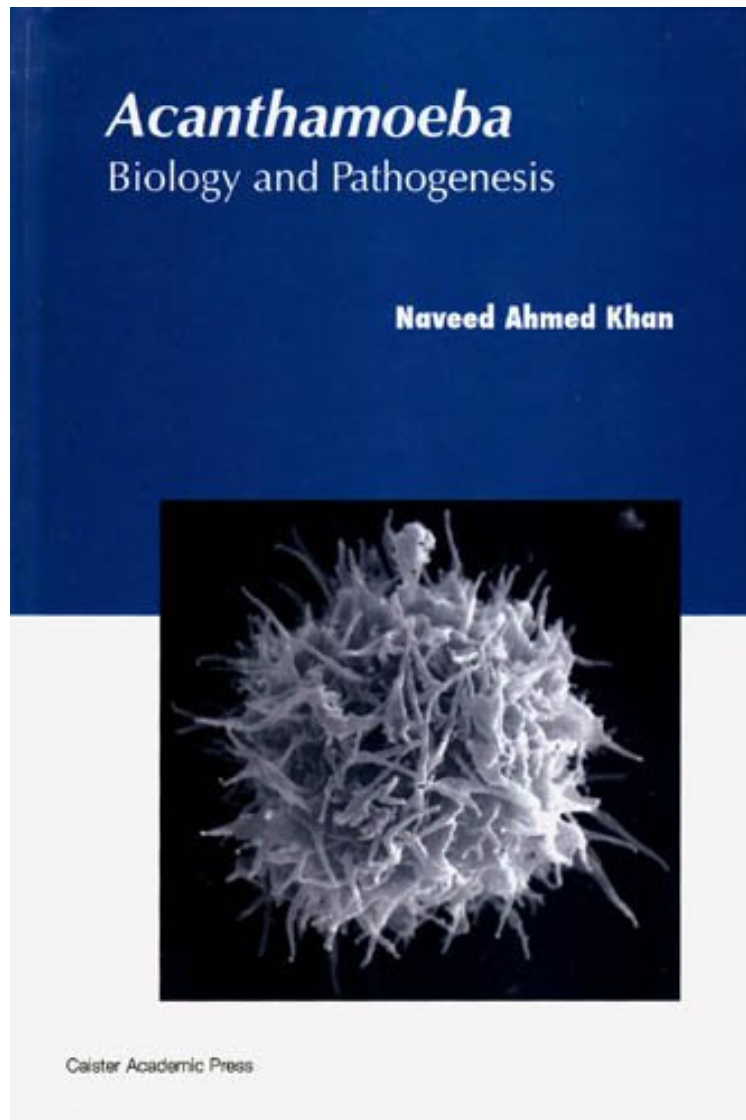


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Acanthamoeba: Biology and Pathogenesis

Naveed Khan

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This book provides the first comprehensive review of Acanthamoeba research. Everything that is known about Acanthamoeba is critically reviewed and divided into easy-to-follow sections. The book presents the current state of research on every aspect of this organism, detailing major advances in areas such as genomics, molecular and cellular

biology, life cycles, geographical distribution, role in ecosystem, morphology, motility, phylogenetics, genotyping, metabolism, regulation of morphogenesis, host-parasite interactions, the molecular and immunological basis of pathogenesis, methods of transmission, epidemiology, clinical manifestation, diagnosis, treatment, new target development and drug resistance, as well as its role as a Trojan horse of the microbial world, including viral, bacterial, protozoal and fungal pathogens, and much more. There is a significant emphasis on the knowledge of *Acanthamoeba* infections that has grown in the molecular era. In addition, this book provides a historical perspective on *Acanthamoeba* research that will be of considerable interest. This compilation will serve as an essential reference for microbiologists, immunologists, and physicians in the field of basic and medical microbiology, as well as an invaluable reference for new and experienced researchers who wish to understand this organism better. The book is the definitive guide to current research on this increasingly important organism.