

Acanthamoeba

Biology and Pathogenesis

Author: Naveed Khan

viii + 290 pp., Feb. 2009

ISBN 978-1-904455-43-1 \$310 / £150

This book provides the first comprehensive review of *Acanthamoeba* research to be published. Everything that is known about *Acanthamoeba* is critically reviewed and divided into easy-to-follow sections. This 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 our 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 parasitologists, 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. This book is the definitive guide to current research on this increasingly important organism.

Reviews:

"a comprehensive review of the literature concerning all aspects of *Acanthamoeba* research ... This book is certainly a 'must read' for all scientists interested in medical and environmental microbiology. It is a very convincing overview and foundation of what is already known about *Acanthamoeba*" from *Parasites and Vectors* (2009) 2: 16

Reviews:

"comprehensive review ... contains a wealth of information about the *Acanthamoeba* organism. It has good illustrations that would be helpful for both teaching and lecturing to a scientific audience." from *Doodys Reviews* (2009)

Reviews:

"a complete study of the *acanthamoeba* ... a useful reference for medical professionals" from *SciTech Book News* June 2009 p. 68

Leishmania

After The Genome

Editors: Peter J. Myler and Nicolas Fasel

xiv + 306 pp., April 2008

ISBN 978-1-904455-28-8 \$300 / £150

The recent publication of the complete genome sequences of three different *Leishmania* species provides new insights into this leading pathogen and presents scientists with an exciting resource to improve the understanding of its complex molecular and cellular biology. In this book, internationally recognised *Leishmania* experts critically review the most important aspects of current *Leishmania* research, providing the first coherent picture of the organism's molecular and cellular biology since the publication of the genome sequence. Chapters are written from a molecular and genomic perspective and discuss in depth *Leishmania*-specific aspects of trypanosomatid biology and pathology. Topics include: diagnosis and epidemiology, genome structure and content, regulation of gene expression, the *Leishmania* proteome, the *Leishmania* metabolome, *Leishmania* differentiation, interaction with the sand fly vector, drug discovery, drug resistance, and much more. Essential reading for all researchers working with *Leishmania*, trypanosomes and protozoa. A recommended book for all biology and medical libraries.

Reviews:

"...a mandatory text for PhD students ... the editors have done well in securing high quality contributions from most of the top leishmaniasis research laboratories in the world. The composition of the text is essentially an expert set of contemporary reviews which give a snapshot of research as it stands now, shortly after completion of the *Leishmania* genome. Many of the reviews have annotated large data sets into comprehensive tables and information-rich diagrams, which confirm its utility as a reference text ... " from *Parasites and Vectors*" (2008) 1: 11.

Reviews:

"... a volume that provides a valuable overview of the molecular biology and biochemistry of these fascinating parasites, their metabolic pathways, differentiation process, and their surface molecules" from *Microbiology Today* (2008)

Reviews:

"... a most thorough and comprehensive review of current research into the genetics, biology, host-parasite interactions and developments in the treatment of Leishmaniasis. ... a must for the library of any individual undertaking research into this disease." from *Aus. J. Med. Sci.* 2009 30(1): 25-26.

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