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biological barriers ; D.6 Direct virulence factors ; D.7 Contact-dependent mechanisms ; D.8 Contact-independent mechanisms ; D.9 Indirect virulence factors; E: Acanthamoeba and the Immune System; E.1 Non-specific immune system ; E.2 Specific immune system ; E.3 What are the basic types of parasite immune evasion strategies?; E.4 Acanthamoeba and immune response  
E.5 Effect of immune suppressive component in marijuana, cannabinoid delta-9-tetrahydrocannabinol on Acanthamoeba encephalitis E.6 Acanthamoeba and the central nervous system autoimmunity; F: Chemotherapeutic Strategies Against Acanthamoeba Infections ; F.1 Chemotherapeutic agents and Acanthamoeba; F.2 Membrane-acting agents ; F.3 Inhibitors of DNA synthesis and polyamine metabolism ; F.4 RNA synthesis inhibition ; F.5 Protein synthesis inhibition ; F.6 Tricyclic neuroleptic agents (calmodulin inhibition); F.7 Artesunate F.8 Antimicrobial compounds from natural products (in addition to the aforementioned antibiotics) F.9 Drug targets in Acanthamoeba; F.10 Drug resistance in Acanthamoeba; F.11 Disinfectants and Acanthamoeba; F.12 Future prospects for treatment ; G: War of the Microbial Worlds: Who is the Beneficiary in Acanthamoeba Interactions with Other Microbes; G.1 A host for viruses; G.2 A host for yeast; G.3 A host for protists; G.4 Acanthamoeba and bacteria interactions ; G.5 Is Acanthamoeba an evolutionary ancestor of macrophages?; G.6 Acanthamoeba as evolutionary precursor of pathogenicity  
G.7 Who is the beneficiary in bacteria-Acanthamoeba interactions?

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#### Sommario/riassunto

This fully up-to-date book covers all aspects of Acanthamoeba biology. Following the success of the first edition, the author has extensively revised and expanded the text to produce a new volume that includes all the latest research and information on every aspect of this organism. There is a particular emphasis on the Acanthamoeba genome sequence and the novel insights gained from the application of molecular methods to Acanthamoeba developmental/cellular biology, in terms of metabolism and morphogenesis, classification, ecology and role in the ecosystem, host-pathogen interactions, virulenc

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