

# Brain-eating Amoebae

## Biology and Pathogenesis of *Naegleria fowleri*

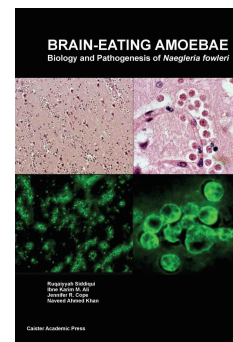
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**Published:** June 2016. **Pages:** 250

**ISBN:** Book: 978-1-910190-53-1. Ebook: 978-1-910190-54-8 £159, \$319

**Published by:** Caister Academic Press [www.caister.com](http://www.caister.com)



*Naegleria fowleri* is a eukaryotic protist pathogen that causes primary amoebic meningoencephalitis. It is one of the world's deadliest known parasites with a mortality rate higher than 90%: infection almost always results in death. A greater scientific understanding of this parasite, how it lives in the environment and its pathogenic mechanism, is crucial for the development of preventative and therapeutic strategies against this fatal, albeit rare disease.

This concise book on *N. fowleri* serves as a quick guide for clinical practitioners, health professionals, researchers and students working with this parasite. Divided into easy-to-follow sections, the book covers all aspects of research into *N. fowleri* as an organism ranging from clinical and laboratory diagnosis to growth and life cycle. It is essential reading for all microbiologists, immunologists, physicians, public health officials and researchers (both new and experienced) involved with *N. fowleri*.

This book is an invaluable reference for everyone working in the field of basic and medical microbiology and a recommended acquisition for all parasitology, microbiology and medical libraries.

- Chapter 0.** Introduction to *Naegleria*
- Chapter 1.** Primary Amoebic Meningoencephalitis
- Chapter 2.** Clinical and Laboratory Diagnosis
- Chapter 3.** Chemotherapeutic and Disinfection Strategies
- Chapter 4.** Pathogenesis
- Chapter 5.** The Host-damage Response to *N. fowleri*
- Chapter 6.** Cell Biology and Speciation
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