

Contents

Part I Taxonomy and Epidemiology of *Cryptosporidium*

1 Taxonomy and Molecular Taxonomy	3
Una Ryan and Lihua Xiao	
2 Epidemiology of Human <i>Cryptosporidiosis</i>	43
Simone M. Cacciò and Lorenza Putignani	
3 Molecular Epidemiology of Human <i>Cryptosporidiosis</i>	81
Gordon L. Nichols, Rachel M. Chalmers, and Stephen J. Hadfield	
4 <i>Cryptosporidiosis</i> in Farmed Animals	149
Lucy J. Robertson, Camilla Björkman, Charlotte Axén, and Ronald Fayer	
5 <i>Cryptosporidiosis</i> in Other Vertebrates	237
Martin Kváč, John McEvoy, Brianna Stenger, and Mark Clark	

Part II Molecular Biology

6 <i>Cryptosporidium</i>: Current State of Genomics and Systems Biological Research	327
Aaron R. Jex and Robin B. Gasser	
7 From Genome to Proteome: Transcriptional and Proteomic Analysis of <i>Cryptosporidium</i> Parasites	345
Jonathan M. Wastling and Nadine P. Randle	
8 <i>Cryptosporidium</i> Metabolism	361
Guan Zhu and Fengguang Guo	

Part III Host-parasite Interaction

- 9 Human Cryptosporidiosis: A Clinical Perspective** 383
Henry Shikani and Louis M. Weiss
- 10 Immunology of Cryptosporidiosis** 423
Guoku Hu, Yaoyu Feng, Steven P. O'Hara, and Xian-Ming Chen
- 11 Treatment of Cryptosporidiosis** 455
Jan R. Mead and Michael J. Arrowood

Part IV *Cryptosporidium* and Water

- 12 *Cryptosporidium* Oocysts in Drinking Water and Recreational
Water** 489
Paul A. Rochelle and George D. Di Giovanni
- 13 Removal and Inactivation of *Cryptosporidium* from Water** 515
Paul Monis, Brendon King, and Alexandra Keegan
- Index** 553

<http://www.springer.com/978-3-7091-1561-9>

Cryptosporidium: parasite and disease

Cacciò, S.M.; Widmer, G. (Eds.)

2014, XI, 564 p. 48 illus., 15 illus. in color., Hardcover

ISBN: 978-3-7091-1561-9