

	List of Contributors	v
	Preface	xi
	Introduction	1
	David A. Haake	
1	The Worldwide Saga of Lyme Borreliosis	7
	Jorge L. Benach and Juan Carlos García-Moncó	
2	<i>Borrelia</i> Genomics: Chromosome, Plasmids, Bacteriophages and Genetic Variation	27
	Sherwood R. Casjens, Christian H. Eggers and Ira Schwartz	
3	Replication of the <i>B. burgdorferi</i> Genome and Scrambling of the Linear Replicons through Reverse Telomere Resolution	55
	George Chaconas	
4	Gene Regulation, Transcriptomics and Proteomics	67
	Jon T. Skare, James A. Carroll, X. Frank Yang, D. Scott Samuels and Darrin R. Akins	
5	Metabolism and Physiology of <i>Borrelia</i>	103
	Frank Gherardini, Julie Boylan, Kevin Lawrence and Jon Skare	
6	Structure, Function and Biogenesis of the <i>Borrelia</i> Cell Envelope	139
	Sven Bergström and Wolfram R. Zückert	
7	The Chic Motility and Chemotaxis of <i>Borrelia burgdorferi</i>	167
	Stuart F. Goldstein, Chunhao Li, Jun Liu, Michael Miller, Md. Abdul Motaleb, Steven J. Norris, Ruth E. Silversmith, Charles W. Wolgemuth and Nyles W. Charon	
8	Genetic Manipulation of <i>Borrelia burgdorferi</i>	189
	Patricia A. Rosa, Felipe Cabello and D. Scott Samuels	
9	Evolutionary Genetics of <i>Borrelia burgdorferi</i> sensu lato	221
	Daniel Dykhuizen and Dustin Brisson	

10	Ecology of Borreliae and Their Arthropod Vectors Joseph Piesman and Tom G. Schwan	251
11	Tick Interactions Utpal Pal and Erol Fikrig	279
12	Pathobiology of Lyme Disease <i>Borrelia</i> Steven J. Norris, Jenifer Coburn, John M. Leong, Linden T. Hu and Magnus Höök	299
13	Pathogenesis of Relapsing Fever Alan G. Barbour and Betty P. Guo	333
14	Animal Models of Borreliosis Stephen W. Barthold, Diego Cadavid and Mario T. Philipp	359
15	Host Response Janis J. Weis and Linda K. Bockenstedt	413
16	Detection of <i>Borrelia burgdorferi</i> Guiqing Wang, Maria E. Agüero-Rosenfeld, Gary P. Wormser and Ira Schwartz	443
17	Lyme Disease Vaccines Richard T. Marconi and Christopher G. Earnhart	467
18	Lyme Disease in Humans Justin D. Radolf, Juan C. Salazar and Raymond J. Dattwyler	487
	Index	535
	Colour Plates	A1