

---

# Contents

Preface .....	v
Contributors .....	ix
Introduction .....	xi
1 Microbial Genomes <b>Voon Loong Chan</b> .....	<b>1</b>
2 Evolution and Origin of Virulence Isolates <b>Voon Loong Chan, Philip M. Sherman, and Billy Bourke</b> .....	<b>21</b>
3 Genomic Approach to Understanding Infectious Disease Mechanisms <b>Voon Loong Chan, Philip M. Sherman, and Billy Bourke</b> .....	<b>31</b>
4 Knockout and Disease Models in Toll-Like Receptor-Mediated Immunity <b>Huey-Lan Huang and Wen-Chen Yeh</b> .....	<b>41</b>
5 Campylobacter: <i>From Glycome to Pathogenesis</i> <b>John Kelly, Jean-Robert Brisson, N. Martin Young, Harold C. Jarrell, and Christine M. Szymanski</b> .....	<b>63</b>
6 Genomics of <i>Helicobacter</i> Species <b>Zhongming Ge and David B. Schauer</b> .....	<b>91</b>
7 The Organization of <i>Leptospira</i> at a Genomic Level <b>Dieter M. Bulach, Torsten Seemann, Richard L. Zuerner, and Ben Adler</b> .....	<b>109</b>
8 <i>Listeria monocytogenes</i> <b>Keith Ireton</b> .....	<b>125</b>
9 Mycobacterial Genomes <b>David C. Alexander and Jun Liu</b> .....	<b>151</b>
10 <i>Mycoplasma</i> <b>Yuko Sasaki</b> .....	<b>175</b>
11 Genome Comparisons of Diverse <i>Staphylococcus aureus</i> Strains <b>Martin J. McGavin</b> .....	<b>191</b>
12 Type III Secretion Systems in <i>Yersinia pestis</i> and <i>Yersinia pseudotuberculosis</i> <b>James B. Bliska, Michelle B. Ryndak, and Jens P. Grabenstein</b> .....	<b>213</b>
13 Genomics and the Evolution of Pathogenic <i>Vibrio cholerae</i> <b>William S. Jermyn, Yvonne A. O'Shea, Anne Marie Quirke, and E. Fidelma Boyd</b> .....	<b>227</b>

14	Future Directions of Infectious Disease Research <i>Philip M. Sherman, Billy Bourke, and Voon Loong Chan</i> .....	255
Index	.....	265

Bacterial Genomes and Infectious Diseases

Chan, R.V.L.; Sherman, P.M.; Bourke, B. (Eds.)

2006, XIII, 270 p., Hardcover

ISBN: 978-1-58829-496-8

A product of Humana Press