
Contents

<i>Preface</i>	v
<i>Contributors</i>	ix
1 <i>Campylobacter jejuni</i> Isolation/Enumeration from Environmental Samples.....	1
<i>Kelli L. Hiatt</i>	
2 Recovery of <i>Campylobacter</i> spp. from Food and Environmental Sources.....	9
<i>Catherine D. Carrillo, Robyn Kenwell, Irene Iugovaz, and Omar A. Oyarzabal</i>	
3 Methods for Isolation, Purification, and Propagation of Bacteriophages of <i>Campylobacter jejuni</i>	19
<i>Yilmaz Emre Gencay, Tina Birk, Martine Camilla Holst Sørensen, and Lone Brøndsted</i>	
4 Methods to Study Antimicrobial Resistance in <i>Campylobacter jejuni</i>	29
<i>Orhan Sabin, Zhangqi Shen, and Qijing Zhang</i>	
5 Method of Peptide Nucleic Acid (PNA)-Mediated Antisense Inhibition of Gene Expression in <i>Campylobacter jejuni</i>	43
<i>Euna Oh and Byeonghwa Jeon</i>	
6 Identification of Ligand-Receptor Interactions: Ligand Molecular Arrays, SPR and NMR Methodologies.....	51
<i>Christopher J. Day, Lauren E. Hartley-Tassell, and Victoria Korolik</i>	
7 Characterization of High Affinity Iron Acquisition Systems in <i>Campylobacter jejuni</i>	65
<i>Ximin Zeng and Jun Lin</i>	
8 Method for the Successful Crystallization of the Ferric Uptake Regulator from <i>Campylobacter jejuni</i>	79
<i>Sabina Sarvan and Jean-François Couture</i>	
9 Methods for Initial Characterization of <i>Campylobacter jejuni</i> Bacteriophages.....	91
<i>Martine Camilla Holst Sørensen, Yilmaz Emre Gencay, and Lone Brøndsted</i>	
10 Methods to Assess the Direct Interaction of <i>C. jejuni</i> with Mucins.....	107
<i>Marguerite Clyne, Gina Duggan, Julie Naughton, and Billy Bourke</i>	
11 Methods to Study <i>Campylobacter jejuni</i> Adherence to and Invasion of Host Epithelial Cells.....	117
<i>Nicholas M. Negretti and Michael E. Konkel</i>	
12 Assays to Study the Interaction of <i>Campylobacter jejuni</i> with the Mucosal Surface.....	129
<i>Marguerite Clyne, Gina Duggan, Ciara Dunne, Brendan Dolan, Luis Alvarez, and Billy Bourke</i>	

13	Characterization of Ligand–Receptor Interactions: Chemotaxis, Biofilm, Cell Culture Assays, and Animal Model Methodologies.....	149
	<i>Rebecca M. King and Victoria Korolik</i>	
14	Using <i>Galleria mellonella</i> as an Infection Model for <i>Campylobacter jejuni</i> Pathogenesis	163
	<i>Momen Askoura and Alain Stintzi</i>	
15	Mouse Models for <i>Campylobacter jejuni</i> Colonization and Infection.....	171
	<i>Martin Stahl, Franziska A. Graef, and Bruce A. Vallance</i>	
16	Metabolomic Analysis of <i>Campylobacter jejuni</i> by Direct-Injection Electro spray Ionization Mass Spectrometry	189
	<i>Robert M. Howlett, Matthew P. Davey and David J. Kelly</i>	
17	Methods for Genome-Wide Methylome Profiling of <i>Campylobacter jejuni</i>	199
	<i>Kathy T. Mou, Tyson A. Clark, Usha K. Muppirala, Andrew J. Severin, and Paul J. Plummer</i>	
18	Characterizing Glycoproteins by Mass Spectrometry in <i>Campylobacter jejuni</i>	211
	<i>Nichollas E. Scott</i>	
19	Methods for Proteome Analysis of <i>Campylobacter jejuni</i> Using 2-D Electrophoresis	233
	<i>Ramila C. Rodrigues, Nabila Haddad, and Odile Tresse</i>	
20	Analyzing Prokaryotic RNA-Seq Data: A Case Study Identifying Holo-Fur Regulated Genes in <i>Campylobacter jejuni</i>	245
	<i>Sophie Bérubé, James Butcher, and Alain Stintzi</i>	
21	Generation and Screening of an Insertion Sequencing-Compatible Mutant Library of <i>Campylobacter jejuni</i>	257
	<i>Jeremiah G. Johnson and Victor J. DiRita</i>	
	<i>Index</i>	273