

# Contents

## Part I General Consideration on Microorganism Typing Methods

- 1 Molecular Epidemiology ..... 3  
Amy E. Seitz and D. Rebecca Prevots

## Part II Gastrointestinal Pathogens

- 2 *Enterococcus* ..... 17  
Lucia Martins Teixeira and Vânia Lúcia Carreira Merquior
- 3 *Listeria monocytogenes* ..... 27  
Todd J. Ward
- 4 Enterobacteriaceae ..... 39  
Steven L. Foley, Aaron M. Lynne, and Rajesh Nayak
- 5 Molecular Typing of *Vibrio cholerae*: Imprints  
in the Epidemiology of Cholera ..... 53  
T. Ramamurthy, A.K. Mukhopadhyay, R.K. Nandy,  
and G. Balakrish Nair
- 6 Molecular Typing of *Clostridium difficile* ..... 73  
Andrej Weintraub and Carl Erik Nord
- 7 Oral and Intestinal *Bacteroidetes* ..... 87  
Marina C. Claros and Georg Conrads

## Part III Oral and Respiratory Pathogens

- 8 Streptococci ..... 109  
Lesley McGee and Bernard Beall

<b>9</b>	<b>Molecular Typing of <i>Streptococcus mutans</i> .....</b>	127
	Kazuhiko Nakano, Ichiro Nakagawa, Satu Alaluusua, and Takashi Ooshima	
<b>10</b>	<b>Genotyping of Periodontal Anaerobic Bacteria in Relationship to Pathogenesis .....</b>	149
	Masae Kuboniwa and Atsuo Amano	
<b>11</b>	<b>Molecular Typing of Nontuberculous Mycobacteria.....</b>	167
	Jakko van Ingen and Dick van Soolingen	
<b>12</b>	<b>Molecular Typing of <i>Neisseria meningitidis</i> .....</b>	179
	Muhamed-Kheir Taha and Ala-Eddine Deghmane	
<b>13</b>	<b>Molecular Typing in Bacterial Infections <i>Haemophilus</i> spp. ....</b>	193
	Marina Cerquetti	
<b>14</b>	<b><i>Moraxella</i>.....</b>	211
	Nevada M. Pingault and Thomas V. Riley	
<b>15</b>	<b><i>Legionella pneumophila</i> Typing.....</b>	221
	Christophe Ginevra	
<b>16</b>	<b><i>Mycoplasma</i> and <i>Ureaplasma</i>.....</b>	229
	Ken B. Waites, Li Xiao, Vanya Paralanov, Rose M. Viscardi, and John I. Glass	
<b>17</b>	<b><i>Corynebacterium diphtheriae</i> .....</b>	283
	Igor Mokrousov	
<b>18</b>	<b><i>Burkholderia</i> .....</b>	301
	Pavel Drevinek and Eshwar Mahenthiralingam	

#### **Part IV Urogenital Pathogens**

<b>19</b>	<b><i>Treponema</i>.....</b>	311
	Allan Pillay	
<b>20</b>	<b><i>Chlamydiaceae</i> .....</b>	327
	Troy Skwor and Deborah Dean	

#### **Part V Vector Borne Pathogens**

<b>21</b>	<b><i>Borreliae</i>.....</b>	353
	Dionysios Liveris, Klára Hanincová, and Ira Schwartz	
<b>22</b>	<b><i>Erysipelothrix</i> .....</b>	371
	Yumiko Imada	

**Part VI Pathogens Causing Healthcare-Associated Infection**

- 23 **Staphylococci** ..... 385  
Jodi A. Lindsay

- 24 **Molecular Typing Methods for the Genus *Pseudomonas*** ..... 407  
Balázs Libisch

**Part VII Emerging and Re-emerging Pathogens**

- 25 ***Acinetobacter baumannii*** ..... 433  
Lenie Dijkshoorn

- 26 **Molecular Typing of *Coxiella burnetii*: A Review of Available Methods with Major Focus on PCR-Based Techniques** ..... 457  
V. Boldis, E. Spitalska, and R. Toman

- Index** ..... 471