

Contents

Preface ix

Acknowledgments xi

Technical Note xi

About the Authors xiii

- 1 *Staphylococcus, Micrococcus, and Other Catalase-Positive Cocci* 1
Ellena M. Peterson
- 2 *Streptococcus* 11
Ellena M. Peterson
- 3 *Enterococcus* 24
Ellena M. Peterson
- 4 *Aerococcus, Abiotrophia, and Other Miscellaneous Gram-Positive Cocci That Grow Aerobically* 30
Marie T. Pezzlo
- 5 *Coryneform Gram-Positive Bacilli* 36
Marie T. Pezzlo
- 6 *Listeria and Erysipelothrix* 48
Luis M. de la Maza
- 7 *Bacillus* 54
Marie T. Pezzlo
- 8 *Nocardia, Rhodococcus, Actinomadura, Streptomyces, Gordonia, and Other Aerobic Actinomycetes* 62
Luis M. de la Maza
- 9 *Mycobacterium* 70
Luis M. de la Maza
- 10 *Introduction to Enterobacterales* 91
Marie T. Pezzlo

- 11 *Escherichia, Shigella, and Salmonella* 103
Marie T. Pezzlo
- 12 *Klebsiella, Enterobacter, Citrobacter, Cronobacter, Serratia, Plesiomonas, and Selected Other Enterobacterales* 113
Marie T. Pezzlo
- 13 *Yersinia* 129
Marie T. Pezzlo
- 14 *Vibrionaceae* 134
Marie T. Pezzlo
- 15 *Aeromonas* 141
Marie T. Pezzlo
- 16 *Pseudomonas* 145
Marie T. Pezzlo
- 17 *Burkholderia, Stenotrophomonas, Ralstonia, Cupriavidus, Pandoraea, Brevundimonas, Comamonas, Delftia, and Acidovorax* 150
Marie T. Pezzlo
- 18 *Acinetobacter, Chryseobacterium, Moraxella, Methylobacterium, and Other Nonfermentative Gram-Negative Bacilli* 157
Marie T. Pezzlo
- 19 *Actinobacillus, Aggregatibacter, Capnocytophaga, Eikenella, Kingella, Pasteurella, and Other Fastidious or Rarely Encountered Gram-Negative Bacilli* 168
Marie T. Pezzlo
- 20 *Legionella* 180
Ellena M. Peterson
- 21 *Neisseria* 184
Ellena M. Peterson
- 22 *Haemophilus* 191
Ellena M. Peterson
- 23 *Bordetella and Related Genera* 197
Ellena M. Peterson
- 24 *Brucella* 203
Luis M. de la Maza
- 25 *Bartonella* 207
Luis M. de la Maza
- 26 *Francisella* 210
Luis M. de la Maza

- 27 Introduction to Anaerobic Bacteria 213
Luis M. de la Maza
- 28 *Clostridium* and *Clostridioides* 223
Luis M. de la Maza
- 29 *Peptostreptococcus*, *Finegoldia*, *Anaerococcus*, *Peptoniphilus*,
Cutibacterium, *Lactobacillus*, *Actinomyces*, and Other
Non-Spore-Forming, Anaerobic Gram-Positive Bacteria 237
Luis M. de la Maza
- 30 *Bacteroides*, *Porphyromonas*, *Prevotella*, *Fusobacterium*, and
Other Anaerobic Gram-Negative Bacteria 252
Luis M. de la Maza
- 31 *Campylobacter* and *Arcobacter* 261
Luis M. de la Maza
- 32 *Helicobacter* 267
Luis M. de la Maza
- 33 *Chlamydia* 272
Ellena M. Peterson
- 34 *Mycoplasma* and *Ureaplasma* 277
Luis M. de la Maza
- 35 *Leptospira*, *Borrelia*, *Treponema*, and *Brachyspira* 281
Luis M. de la Maza
- 36 *Rickettsia*, *Orientia*, *Ehrlichia*, *Anaplasma*, and *Coxiella* 290
Luis M. de la Maza
- 37 *Tropheryma whipplei* 297
Luis M. de la Maza
- 38 Antimicrobial Susceptibility Testing 299
Ellena M. Peterson
- 39 Molecular Diagnosis of Bacterial Infections 307
Luis M. de la Maza
- 40 Total Laboratory Automation 330
Cassiana E. Bittencourt
- 41 Stains, Media, Reagents, and Histopathology 338
Cassiana E. Bittencourt and Marie T. Pezzlo
- 42 Fast Facts: Bacteria 367
Cassiana E. Bittencourt

