

# Contents

List of Contributors vii

Preface ix

## SECTION ONE GRAM-POSITIVE COCCI 1

- 1  $\beta$ -Haemolytic Streptococci 3**  
*Androulla Efstratiou, Shiranee Sriskandan,  
Theresa Lamagni and Adrian Whatmore*
- 2 Oral and Other Non- $\beta$ -Haemolytic Streptococci 21**  
*Roderick McNab and Theresa Lamagni*
- 3 *Streptococcus pneumoniae* 41**  
*Indran Balakrishnan*
- 4 *Enterococcus* spp. 59**  
*Esteban C. Nannini and Barbara E. Murray*
- 5 *Staphylococcus aureus* 73**  
*Sharon Peacock*
- 6 Coagulase-Negative Staphylococci 99**  
*Roger G. Finch*

## SECTION TWO GRAM-POSITIVE BACILLI 113

- 7 *Corynebacterium* spp. 115**  
*Aruni De Zoysa and Androulla Efstratiou*
- 8 *Listeria* and *Erysipelothrix* spp. 129**  
*Kevin G. Kerr*
- 9 *Bacillus* spp. and Related Genera 139**  
*Niall A. Logan and Marina Rodríguez-Díaz*
- 10 *Mycobacterium tuberculosis* 159**  
*Stephen H. Gillespie*
- 11 Non-Tuberculosis Mycobacteria 171**  
*Stephen H. Gillespie*
- 12 Aerobic Actinomycetes 183**  
*Stephen H. Gillespie*

## SECTION THREE GRAM-NEGATIVE ORGANISMS 189

- 13 *Moraxella catarrhalis* and *Kingella kingae* 191**  
*Alex van Belkum and Cees M. Verduin*
- 14 *Neisseria meningitidis* 205**  
*Dlawer A. A. Ala'Aldeen and David P. J. Turner*
- 15 *Neisseria gonorrhoeae* 221**  
*Catherine A. Ison*
- 16 *Acinetobacter* spp. 231**  
*Peter Hawkey and Eugenie Bergogne-Berezin*
- 17 *Haemophilus* spp. 245**  
*Derrick W. Crook and Derek W. Hood*
- 18 *Bordetella* spp. 253**  
*Qiushui He, Jussi Mertsola and  
Matti K. Viljanen*

- 19 *Brucella* spp. 265**  
*Edward J. Young*
- 20 *Actinobacillus actinomycetemcomitans* 273**  
*Brian Henderson and Derren Ready*
- 21 *Francisella tularensis* 281**  
*Petra C. F. Oyston*
- 22 *Rickettsia* spp. 285**  
*James G. Olson, Franca R. Jones  
and Patrick J. Blair*
- 23 *Bartonella* spp. 295**  
*J. M. Rolain and D. Raoult*
- 24 *Mycoplasma* spp. 305**  
*Christiane Bébéar, Sabine Pereyre and  
Cécile M. Bébéar*
- 25 *Chlamydia* spp. and Related Organisms 317**  
*S. J. Furrows and G. L. Ridgway*
- 26 *Tropheryma whipplei* 329**  
*F. Fenollar and D. Raoult*
- 27 Identification of Enterobacteriaceae 341**  
*Peter M. Hawkey*
- 28 *Escherichia coli* and *Shigella* spp. 347**  
*Christopher L. Baylis, Charles W. Penn,  
Nathan M. Thielman, Richard L. Guerrant,  
Claire Jenkins and Stephen H. Gillespie*
- 29 *Salmonella* spp. 367**  
*Claire Jenkins and Stephen H. Gillespie*
- 30 *Klebsiella*, *Citrobacter*,  
*Enterobacter* and *Serratia* spp. 377**  
*C. Anthony Hart*
- 31 Donovanosis and *Klebsiella* spp. 387**  
*John Richens*
- 32 *Proteus*, *Providencia* and *Morganella* spp. 391**  
*Peter M. Hawkey*
- 33 *Yersinia* spp. 397**  
*M. B. Prentice*
- 34 *Vibrio* spp. 407**  
*Tom Cheasty*
- 35 *Aeromonas* and *Plesiomonas* spp. 419**  
*Alpana Bose*
- 36 *Pseudomonas* and *Burkholderia* spp. 427**  
*Tyrone L. Pitt and Andrew J. H. Simpson*
- 37 *Legionella* spp. 445**  
*T. G. Harrison*
- 38 *Coxiella burnetii* 457**  
*James G. Olson, Franca R. Jones and  
Patrick J. Blair*

**SECTION FOUR SPIRAL BACTERIA 461**

- 39 *Leptospira* spp. 463**  
*P. N. Levett*
- 40 *Helicobacter* spp. and Related Organisms 473**  
*Peter J. Jenks*
- 41 *Campylobacter* and *Arcobacter* spp. 485**  
*Diane E. Taylor and Monika Keelan*
- 42 Treponemes 503**  
*Andrew J. L. Turner*
- 43 *Borrelia* spp. 511**  
*Sudha Pabbatireddy and Benjamin J. Luft*

**SECTION FIVE OBLIGATE ANAEROBIC BACTERIA 527**

- 44 Anaerobic Cocci 529**  
*D. A. Murdoch*
  - 45 Non-Sporing Gram-Negative Anaerobes 541**  
*Sheila Patrick and Brian I. Duerden*
  - 46 *Clostridium difficile* 557**  
*Mark H. Wilcox*
  - 47 Other *Clostridium* spp. 567**  
*Ian R. Poxton*
  - 48 Anaerobic Actinomycetes and Related Organisms 575**  
*Val Hall*
- Index 587**