The revolutionary discovery of *Helicobacter pylori* started a new era in the understanding and management of gastroduodenal diseases. *H. pylori* is associated with chronic gastritis, peptic ulcers, MALT lymphoma, the pathogenesis of gastric cancer and several extra-gastric diseases. The organism displays an enormous genetic diversity and some strains harbour numerous virulence factors. No vaccines are available yet and increased antibiotic resistance of the bacteria is of growing concern. Many questions about *H. pylori* pathogenesis, epidemiology, prophylaxis and treatment remain to be answered. In addition, the role of non-pylori *Helicobacter* species is becoming a topic of considerable medical interest.

This book highlights recent research and provides in a single volume an up-to-date summary of our current knowledge for microbiologists, clinicians and advanced students working with *Helicobacter* and for those wishing to enter the field. The authors offer an outstanding collection of reviews on many aspects of *Helicobacter* research including microbiology, virulence factors, immunology, vaccine research, epidemiology, diseases associated with the infection, antibiotic resistance, and treatment (including the use of non-antibiotic agents). A major reference volume on *Helicobacter pylori* and how it impacts on public health worldwide, the book is essential reading for those with an interest in the microbiology of *H. pylori* and is a recommended volume for all microbiology libraries.

Chapter 1. Historical Data. Lyudmila Boyanova  
Chapter 2. Genus *Helicobacter*. Lyudmila Boyanova  
Chapter 3. Microbiology and Characteristics of *H. pylori*. Lyudmila Boyanova  
Chapter 4. *H. pylori* Virulence Factors. Lyudmila Boyanova  
Chapter 5. Immunology of *H. pylori* Infection. Ivan Mitov  
Chapter 6. Vaccines. Ivan Mitov  
Chapter 7. Epidemiology of *H. pylori* Infection. Lyudmila Boyanova  
Chapter 8. *H. pylori*-associated Diseases. Borislav Vladimirov  
Chapter 10. Treatment of *H. pylori*-associated Diseases. Borislav Vladimirov  
MALDI-TOF Mass Spectrometry in Microbiology  
Edited by: Markus Kostrzewa and Sören Schubert (Published: 2016)

Aspergillus and Penicillium in the Post-genomic Era  
Edited by: Ronald P. de Vries, Isabelle Benoit Gelber and Mikael Rørdam Andersen (Published: 2016)

The Bacteriocins: Current Knowledge and Future Prospects  
Edited by: Robert L. Dorit, Sandra M. Roy and Margaret A. Riley (Published: 2016)

Omics in Plant Disease Resistance  
Edited by: Vijai Bhadauria (Published: 2016)

Acidophiles: Life in Extremely Acidic Environments  
Edited by: Raquel Quatrini and D. Barrie Johnson (Published: 2016)

Climate Change and Microbial Ecology: Current Research and Future Trends  
Edited by: Jürgen Marxsen (Published: 2016)

Biofilms in Bioremediation: Current Research and Emerging Technologies  
Edited by: Gavin Lear (Published: 2016)

Microalgae: Current Research and Applications  
Edited by: Maria-Nefeli Tsaloglou (Published: 2016)

Gas Plasma Sterilization in Microbiology: Theory, Applications, Pitfalls and New Perspectives  
Edited by: Hideharu Shintani and Akikazu Sakudo (Published: 2016)

Virus Evolution: Current Research and Future Directions  
Edited by: Scott C. Weaver, Mark Denison, Marilyn Roossinck and Marco Vignuzzi (Published: 2016)

Arboviruses: Molecular Biology, Evolution and Control  
Edited by: Nikos Vasilakis and Duane J. Gubler (Published: 2016)

Shigella: Molecular and Cellular Biology  
Edited by: William D. Picking and Wendy L. Picking (Published: 2016)

Aquatic Biofilms: Ecology, Water Quality and Wastewater Treatment  
Edited by: Anna M. Romani, Helena Guasch and M. Dolors Balaguer (Published: 2016)

Alphaviruses: Current Biology  
Edited by: Suresh Mahalingam, Lara Herrero and Belinda Herring (Published: 2016)

Thermophilic Microorganisms  
Edited by: Fu-Li Li (Published: 2015)

Flow Cytometry in Microbiology: Technology and Applications  
Edited by: Martin G. Wilkinson (Published: 2015)  
"an impressive group of experts" (ProtoView)

Probiotics and Prebiotics: Current Research and Future Trends  
Edited by: Koen Venema and Ana Paula do Carmo (Published: 2015)

Epigenetics: Current Research and Emerging Trends  
Edited by: Brian P. Chadwick (Published: 2015)  
"this is one text you don't want to miss" (Epigenie); "up-to-date information" (ChemMedChem)

Corynebacterium glutamicum: From Systems Biology to Biotechnological Applications  
Edited by: Andreas Burkovski (Published: 2015)  
"Without question a valuable book" (BIOSpektrum)

Advanced Vaccine Research Methods for the Decade of Vaccines  
Edited by: Fabio Bagnoli and Rino Rappuoli (Published: 2015)

Full details at www.caister.com