

# Corynebacteria

## Genomics and Molecular Biology

Edited by: **Andreas Burkovski**

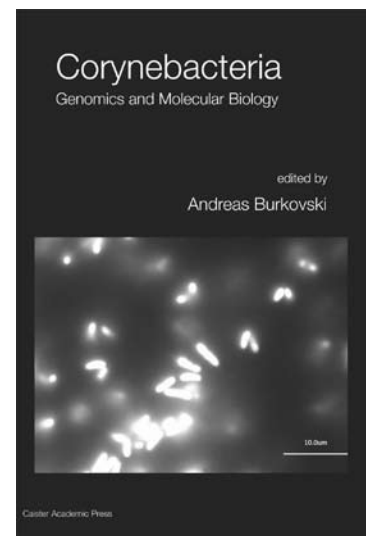
Friedrich-Alexander Universitaet Erlangen-Nuernberg, 91058 Erlangen, Germany

viii + 340 pp, June 2008

978-1-904455-30-1 \$319/£159

This volume brings together the expertise and enthusiasm of today's leading Corynebacteria experts providing a timely review of the molecular biology toolbox available for *Corynebacterium* research. Topics include the global analyses techniques, such as comparative genomics, transcriptome, proteome and metabolome analysis, as well as the most recent knowledge on *Corynebacterium* promoter structures and vector systems. Furthermore, topics such as regulatory networks controlling carbon, nitrogen, phosphorus, sulphur and iron metabolism, cell wall structure, proteolysis and environmental stress response are covered. The fascinating advances made in the last few years unequivocally demonstrate that *C. glutamicum* has become one of the best investigated and understood microorganisms known today. Clearly, the high G+C Gram positive corynebacteria are significantly different from low G+C Gram positive bacteria such as *Bacillus subtilis*, and the application of modern molecular biology analysis techniques has made *C. glutamicum* not only an excellent model organism for *Corynebacterinae*, but also a model organism for systems biology. Essential reading for everyone with an interest in *Corynebacterium* and related organisms.

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### Table of Contents

- Preface: Molecular Biology of Corynebacteria: About Pathogens and Biotechnology Workhorses *Andreas Burkovski*
- Chapter 1: The Discovery of *Corynebacterium glutamicum* and Birth of Amino Acid Fermentation Industry in Japan *Shigezo Udaka*
- Chapter 2: Genomics of Industrially and Medically Relevant Corynebacteria *Andreas Tauch*
- Chapter 3: DNA Microarray-based Transcriptome Analysis in *C. glutamicum* *Volker F. Wendisch*
- Chapter 4: Proteomics of *Corynebacterium glutamicum* and Other Corynebacteria *Jörn Kalinowski, Dirk Wolters, and Ansgar Poetsch*
- Chapter 5: Metabolic Network Analysis and Design in *Corynebacterium glutamicum* *Christoph Wittmann and Elmar Heinzle*
- Chapter 6: Plasmids and Promoters in Corynebacteria and Their Applications *J. Nesvera and M. Pátek*
- Chapter 7: Regulation of Carbon Metabolism in *Corynebacterium glutamicum* *Annette Arndt and Bernhard J. Eikmanns*
- Chapter 8: Molecular Mechanisms of Nitrogen Control in Corynebacteria *Eva Hänßler and Andreas Burkovski*
- Chapter 9: Phosphorus Metabolism and its Regulation *Volker F. Wendisch and Michael Bott*
- Chapter 10: Sulfur Metabolism in *Corynebacterium glutamicum* *Christian Rückert and Jörn Kalinowski*
- Chapter 11: Regulation of Iron Homeostasis in *Corynebacterium glutamicum* *Julia Frunzke und Michael Bott*
- Chapter 12: Structure and Synthesis of the Cell Wall *Lothar Eggeling, Gurdyal S. Besra and Luke Alderwick*
- Chapter 13: General and Regulatory Proteolysis in Corynebacteria *Johannes Amon, Alja Lüdke, Fritz Titgemeyer, and Andreas Burkovski*
- Chapter 14: Environmental Stress Response of *Corynebacterium glutamicum* *Susanne Morbach and Reinhard Krämer*

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