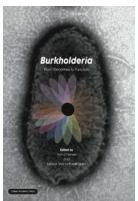
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Burkholderia

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From Genomes to Function

Edited by: Tom Coenye and Eshwar Mahenthiralingam

Laboratorium voor Farmaceutische Microbiologie, Universiteit Gent, Belgium and Cardiff School of Biosciences, Cardiff, UK respectively

viii + 254 pp. text + 16 pp. plate,

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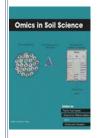
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The application of high-throughput sequencing and 'omics' technologies in recent years has allowed research on *Burkholderia* species to advance at an unprecedented pace permitting fascinating new insights into the molecular and cellular biology of this highly variable group of bacteria. In this book leading international investigators review key advances in *Burkholderia* research to provide a timely overview. The theme underpinning each chapter is the use of DNA/protein sequence data and post-genomic technologies to understand *Burkholderia* biology. Essential reading for everyone working with these and related bacteria.

Contents

- 1: Burkholderia: From Genomes to Function, and on to the Future. Eshwar Mahenthiralingam and Tom Coenye
- 2: Genomic Taxonomy and Biodiversity of the *Burkholderia cepacia* Complex. Peter Vandamme, Bart Verheyde, Charlotte Peeters and Peter Dawyndt
- 3: Comparative Genomics in the Genus Burkholderia. Pimlapas Leekitcharoenphon, Gregory S. Buzard and David W. Ussery
- 4: Molecular Epidemiology and Population Structure of Clinically Relevant Burkholderia Species. Tom Coenye, Eshwar Mahenthiralingam and John J. LiPuma
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- 6: Burkholderia Proteomics: Methodologies, Challenges, and Applications. Isabel Sá-Correia, Sandra C. dos Santos and Andreia Madeira
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- 8: Molecular Mechanisms of *Burkholderia cepacia* Complex Intracellular Survival in Phagocytic Cells. Miguel A. Valvano, Roberto Rosales-Reyes, Crystal L. Schmerk and Hanna Ostapska
- 9: The Phytopathogenic *Burkholderia*. Bruna Gonçalves Coutinho, Mayukh Das, Zulma Rocío Suárez-Moreno, Carlos F. Gonzalez and Vittorio Venturi
- 10: Molecular Basis for Antibiotic Resistance in the Genus *Burkholderia*. Silvia Bazzini, Silvia Buroni, Claudia Udine, Maria Rosalia Pasca and Giovanna Riccardi
- 11: Cell-to-cell Communication and Biofilm Formation of Members of the Genus *Burkholderia*: A Story of Multilingually Talented Bacteria. Nadine Schmid, Gabriella Pessi, Claudio Aguilar and Leo Eberl
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