



Burkholderia: From Genomes to Function

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Burkholderia are a multi-faceted group of bacteria with considerable genetic and metabolic diversity and very versatile lifestyles. Some species are regarded as beneficial, as they possess traits, such as an ability to promote plant growth, kill pest organisms, fix nitrogen, and degrade man-made pollutants. Others, however, are important pathogens and include species such as *B. mallei* and *B. pseudomallei*, considered to be potential biological weapons. 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 timely overview. The topics covered include: genomic taxonomy and biodiversity * comparative genomics * molecular epidemiology * transcriptomics * proteomics * molecular pathogenesis of virulence in *B. mallei*/*B. pseudomallei* and the Burkholderia cepacia complex * molecular basis of phytopathogenicity and antibiotic resistance * signaling and biofilms * the genomic biology of Burkholderia phages. The theme that underpins each chapter is the use of DNA/protein sequence data and post-genomic technologies to understand Burkholderia biology.

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