

# Evolution of antibiotic resistance

*Acinetobacter baumannii* is a common causative agent of hospital-acquired infections and a leading cause of infection in burns patients. Carbapenem-resistant *A. baumannii* is considered a major public-health threat and has been identified by the World Health Organization as the top priority organism requiring new antimicrobials. In this study, the authors sampled 20 *A. baumannii* isolates from a patient with extensive burns, and characterized the evolution of carbapenem resistance over a 45 day period via Illumina and Oxford Nanopore sequencing.

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Suitable	No: Long timeframe; sample availability
Organism	<i>Acinetobacter baumannii</i>
Substrate	DNA
Full Genome	Yes
Genome size	~ 4 Mb
Reference available	Yes



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File:Acinetobacter\_baumannii.JPG

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