



## Real-time sequencing to decipher the molecular mechanism of resistance of a clinical pan-drug-resistant *Acinetobacter baumannii* isolate from Marseille, France.

Submitted by a.bergoend on Wed, 05/06/2015 - 14:08

Titre	Real-time sequencing to decipher the molecular mechanism of resistance of a clinical pan-drug-resistant <i>Acinetobacter baumannii</i> isolate from Marseille, France.
Type de publication	Article de revue
Auteur	Rolain, Jean-Marc [1], Diene, Seydina M. [2], Kempf, Marie [3], Gimenez, Gregory [4], Robert, Catherine [5], Raoult, Didier [6]
Pays	Etats-Unis
Editeur	American Society for Microbiology
Type	Article scientifique dans une revue à comité de lecture
Année	2013
Langue	Anglais
Date	2013 Jan
Numéro	1
Pagination	592-596
Volume	57
Titre de la revue	Antimicrobial Agents and Chemotherapy
ISSN	0066-4804
Mots-clés	<i>Acinetobacter baumannii</i> [7], <i>Acinetobacter</i> Infections [8], Anti-Bacterial Agents [9], Bacterial Proteins [10], Bacterial Typing Techniques [11], Chromosomes, Bacterial [12], Colistin [13], Drug Resistance, Multiple, Bacterial [14], France [15], High-Throughput Nucleotide Sequencing [16], Humans [17], Rifampin [18], Sequence Analysis, DNA [19], Transcription Factors [20]
Résumé en anglais	We compare the whole-genome sequences of two multidrug-resistant clinical <i>Acinetobacter baumannii</i> isolates recovered in the same patient before (ABIsac_ColiS susceptible to colistin and rifampin only) and after (ABIsac_ColiR resistant to colistin and rifampin) treatment with colistin and rifampin. We decipher all the molecular mechanisms of antibiotic resistance, and we found mutations in the <i>rpoB</i> gene and in the PmrAB two-component system explaining resistance to rifampin and colistin in ABIsac_ColiR, respectively.
URL de la notice	<a href="http://okina.univ-angers.fr/publications/ua11002">http://okina.univ-angers.fr/publications/ua11002</a> [21]
DOI	10.1128/AAC.01314-12 [22]
Lien vers le document	<a href="http://aac.asm.org/content/57/1/592">http://aac.asm.org/content/57/1/592</a> [23]
Titre abrégé	Antimicrob. Agents Chemother.
Identifiant (ID) PubMed	23070160 [24]

---

## Liens

- [1] [http://okina.univ-angers.fr/publications?f\[author\]=7786](http://okina.univ-angers.fr/publications?f[author]=7786)
- [2] [http://okina.univ-angers.fr/publications?f\[author\]=8116](http://okina.univ-angers.fr/publications?f[author]=8116)
- [3] <http://okina.univ-angers.fr/marie.kempf/publications>
- [4] [http://okina.univ-angers.fr/publications?f\[author\]=19468](http://okina.univ-angers.fr/publications?f[author]=19468)
- [5] [http://okina.univ-angers.fr/publications?f\[author\]=19469](http://okina.univ-angers.fr/publications?f[author]=19469)
- [6] [http://okina.univ-angers.fr/publications?f\[author\]=8055](http://okina.univ-angers.fr/publications?f[author]=8055)
- [7] [http://okina.univ-angers.fr/publications?f\[keyword\]=9266](http://okina.univ-angers.fr/publications?f[keyword]=9266)
- [8] [http://okina.univ-angers.fr/publications?f\[keyword\]=10151](http://okina.univ-angers.fr/publications?f[keyword]=10151)
- [9] [http://okina.univ-angers.fr/publications?f\[keyword\]=10152](http://okina.univ-angers.fr/publications?f[keyword]=10152)
- [10] [http://okina.univ-angers.fr/publications?f\[keyword\]=11654](http://okina.univ-angers.fr/publications?f[keyword]=11654)
- [11] [http://okina.univ-angers.fr/publications?f\[keyword\]=11701](http://okina.univ-angers.fr/publications?f[keyword]=11701)
- [12] [http://okina.univ-angers.fr/publications?f\[keyword\]=17199](http://okina.univ-angers.fr/publications?f[keyword]=17199)
- [13] [http://okina.univ-angers.fr/publications?f\[keyword\]=9349](http://okina.univ-angers.fr/publications?f[keyword]=9349)
- [14] [http://okina.univ-angers.fr/publications?f\[keyword\]=17200](http://okina.univ-angers.fr/publications?f[keyword]=17200)
- [15] [http://okina.univ-angers.fr/publications?f\[keyword\]=1334](http://okina.univ-angers.fr/publications?f[keyword]=1334)
- [16] [http://okina.univ-angers.fr/publications?f\[keyword\]=14042](http://okina.univ-angers.fr/publications?f[keyword]=14042)
- [17] [http://okina.univ-angers.fr/publications?f\[keyword\]=991](http://okina.univ-angers.fr/publications?f[keyword]=991)
- [18] [http://okina.univ-angers.fr/publications?f\[keyword\]=17201](http://okina.univ-angers.fr/publications?f[keyword]=17201)
- [19] [http://okina.univ-angers.fr/publications?f\[keyword\]=7686](http://okina.univ-angers.fr/publications?f[keyword]=7686)
- [20] [http://okina.univ-angers.fr/publications?f\[keyword\]=11006](http://okina.univ-angers.fr/publications?f[keyword]=11006)
- [21] <http://okina.univ-angers.fr/publications/ua11002>
- [22] <http://dx.doi.org/10.1128/AAC.01314-12>
- [23] <http://aac.asm.org/content/57/1/592>
- [24] <http://www.ncbi.nlm.nih.gov/pubmed/23070160?dopt=Abstract>

Publié sur *Okina* (<http://okina.univ-angers.fr>)