



Genomic insights into strategies used by *Xanthomonas albilineans* with its reduced artillery to spread within sugarcane xylem vessels

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Titre	Genomic insights into strategies used by <i>Xanthomonas albilineans</i> with its reduced artillery to spread within sugarcane xylem vessels
Type de publication	Article de revue
Auteur	Pieretti, Isabelle [1], Royer, Monique [2], Barbe, Valérie [3], Carrère, Sebastien [4], Koebnik, Ralf [5], Couloux, Arnaud [6], Darrasse, Armelle [7], Gouzy, Jérôme [8], Jacques, Marie-Agnès [9], Lauber, Emmanuelle [10], Manceau, Charles [11], Mangenot, Sophie [12], Poussier, Stéphane [13], Ségurens, Béatrice [14], Szurek, Boris [15], Verdier, Valérie [16], Arlat, Matthieu [17], Gabriel, Dean W [18], Rott, Philippe [19], Cociancich, Stéphane [20]
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ISSN	1471-2164
Résumé en anglais	<p><i>Xanthomonas albilineans</i> causes leaf scald, a lethal disease of sugarcane. <i>X. albilineans</i> exhibits distinctive pathogenic mechanisms, ecology and taxonomy compared to other species of <i>Xanthomonas</i>. For example, this species produces a potent DNA gyrase inhibitor called albicidin that is largely responsible for inducing disease symptoms; its habitat is limited to xylem; and the species exhibits large variability. A first manuscript on the complete genome sequence of the highly pathogenic <i>X. albilineans</i> strain GPE PC73 focused exclusively on distinctive genomic features shared with <i>Xylella fastidiosa</i>—another xylem-limited <i>Xanthomonadaceae</i>. The present manuscript on the same genome sequence aims to describe all other pathogenicity-related genomic features of <i>X. albilineans</i>, and to compare, using suppression subtractive hybridization (SSH), genomic features of two strains differing in pathogenicity.</p>
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Liens

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