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Pyrrrolnitrin is more essential than phenazines for *Pseudomonas chlororaphis*

G05 in its suppression of *Fusarium graminearum*

Running Title: Suppression of *F. graminearum* mediated by pyrrrolnitrin

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Abstract

Fusarium graminearum is the major causal agent of Fusarium head blight (FHB) disease in cereal crops worldwide. Infection with this fungal phytopathogen can regularly cause severe yield and quality losses and mycotoxin contamination in grains. In previous other studies, one research group reported that pyrrrolnitrin had an ability to suppress of mycelial growth of *F. graminearum*. Other groups revealed that

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