

Supplemental Material

An inter-species signaling system mediated by fusaric acid has parallel effects on antifungal metabolite production, gene expression, and antibiosis of *Fusarium* spp. by *Pseudomonas protegens* Pf-5

Maria Carolina Quecine, Teresa A. Kidarsa, Neal C. Goebel, Brenda T. Shaffer, Marcella D. Henkels, T. Mark Zabriskie, and Joyce E. Loper

Table S1. Inhibition of *Fusarium* spp. by *P. protegens* Pf-5 and derivative strains on PDA containing 10^{-4} M FeCl_3 .

Strain	Percent inhibition		
	T4-0	R2-238	R5
Pf-5	41 ab	35 bc	37 a
$\Delta gacA$	7 fgh	4 e	0 e
$\Delta phlD$	25 cde	24 d	24 abc
$\Delta prnC$	34 abc	41 a	36 ab
$\Delta rzxB$	26 cde	34 bc	36 ab
$\Delta hcnB$	44 a	36 ab	37 a
$\Delta pltA$	34 abc	26 cd	32 ab
$\Delta phlD \Delta prnC$	24 cde	27 cd	10 cd
$\Delta phlD \Delta rzxB$	4 h	5 e	32 ab
$\Delta prnC \Delta rzxB$	16 efg	40 a	37 a
$\Delta phlD \Delta rzxB \Delta prnC$	8 fgh	4 e	4 de
$\Delta phlD \Delta rzxB \Delta prnC \Delta hcnB \Delta pltA$	5 gh	0 e	0 e
$\Delta phlD \Delta rzxB \Delta prnC \Delta hcnB \Delta pltA \Delta ofaA \Delta toxB$	3 h	1 e	0 e

Cultures were grown for 5 days at 27°C before radial growth of *Fusarium* spp. was measured. Means represent four replicate plates. Within each column, means followed by a common letter do not differ significantly as determined by Tukey's range test.

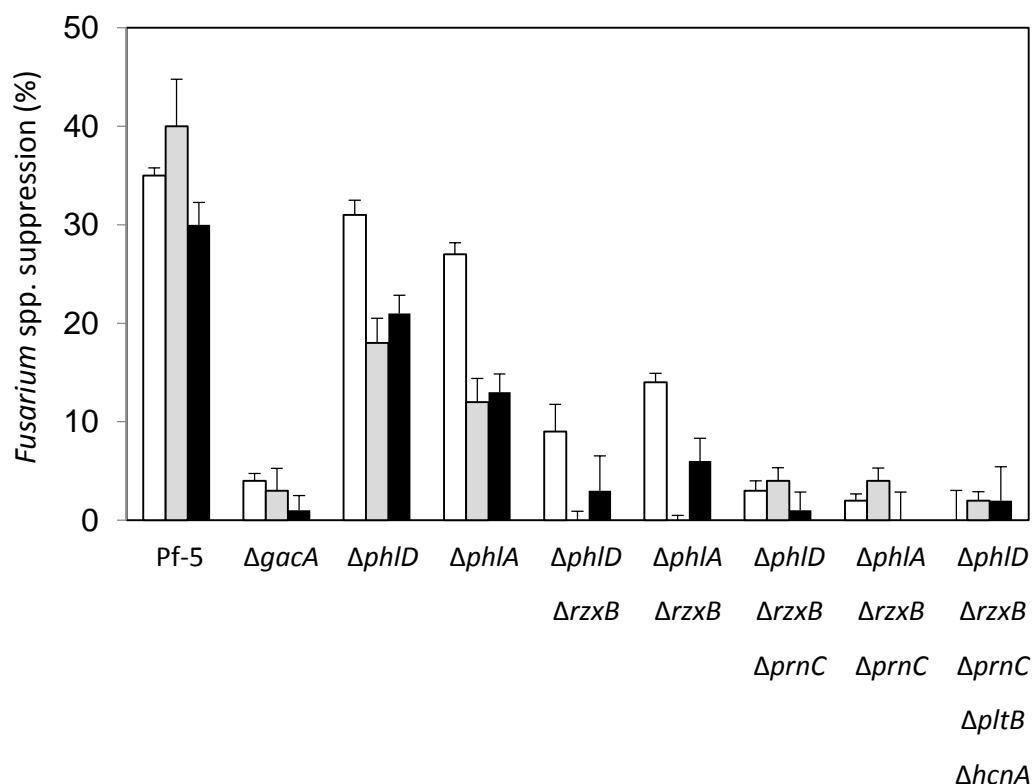


FIG. S1. Inhibition of *Fusarium* spp. by *P. protegens* Pf-5 and derivative strains on PDA amended with 10^{-4} M FeCl_3 . Pf-5 and derivatives having deletions in specified genes are shown on the X axis. Percent inhibition of *F. verticillioides* isolate T4-0 (white bars), *F. oxysporum* f. sp. *pisi* race 2 isolate R2-238 (grey bars), and *F. oxysporum* f. sp. *pisi* race 5 isolate R5 (black bars) was determined as shown in Fig. 1. Cultures were grown for 5 days at 27°C before radial growth of *Fusarium* spp. was measured. Means represent four replicate plates and error bars represent the standard error of the mean.