N-acyl homoserine lactones and Lux solos regulate social behaviour and virulence of *Pseudomonas syringae pv. actinidiae*

Microbial Ecology

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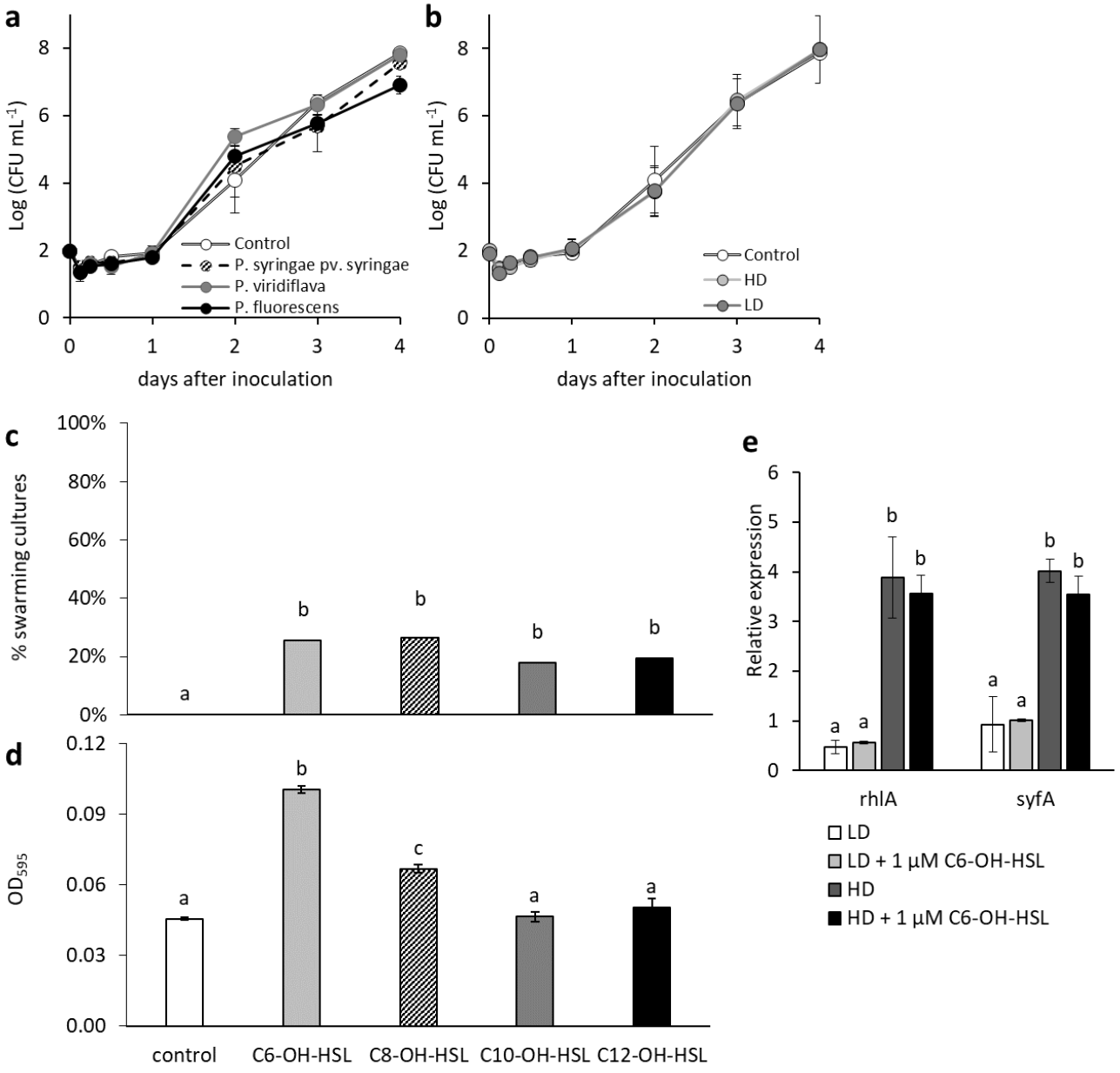
Online Resource 2

(**a**) Growth of *Pseudomonas syringae* pv. *actinidiae* (Psa) in cell-free supernatants of *P. putida* strain IBE3, *P. syringae* pv. *syringae*, *P. viridiflava* and *P. fluorescens*. (**b**) Growth of Psa in cell-free supernatants of low density (LD) or high density (HD) Psa cultures. (**c**) percentage of Psa cultures showing swarming motility after treatment with 1 µM C6-OH-, C8-OH-, C10-OH- or C12-OH-homoserine lactone (HSL) solutions in phosphate buffer saline. (**d**) production of biofilm by Psa after treatment with 0.25 µM C6-OH-, C8-OH-, C10-OH- or C12-OH-HSL. (**e**) expression of genes related to biosurfactant production in wild-type Psa grown in LD or HD culture supernatants, and in presence/absence of 1 µM C6-OH-HSL, indicated as relative amount of transcript compared to the housekeeping genes *recA* and *rpoD*. (**f**) table of *p* values obtained by two-way

ANOVA on gene expression data presented in fig. 5, considering concentration (0, 0.25 or 1 µM) and molecule (C6-OH- or C8-OH-HSL) as the factors. Significant effects ($p \leq 0.05$) are highlighted in bold. ANOVA followed by Tukey's test (**a**, **b**, **d**, **e**) or Marascuilo's test (**c**) were performed. Different letters indicate significant differences



f	fliP	rpoN	pilA	pilC	pilO	algD	wssB	wspR	hopZ5	avrPto1	hopD1	hopS2	psaR1	psaR2	psaR3
Concentration	**0.000**	**0.000**	**0.000**	**0.000**	**0.001**	**0.000**	**0.014**	**0.000**	**0.008**	**0.006**	**0.000**	**0.062**	0.114	0.518	0.159
Molecule	0.051	0.097	0.071	0.140	**0.014**	0.980	0.431	**0.002**	0.076	0.052	0.195	0.503	0.783	0.242	0.135
Interaction (Concentration × Molecule)	**0.045**	0.129	0.051	**0.034**	**0.007**	0.872	0.575	**0.002**	0.267	**0.028**	0.553	0.878	0.129	0.409	0.307