

Supplementary Materials: Orally Delivered Scorpion Antimicrobial Peptides Exhibit Activity against Pea Aphid (*Acyrtosiphon pisum*) and Its Bacterial Symbionts

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Table S1. Statistical data for Kaplan-Meier analysis shown in Figure 1.

Treatment	Mean ^a			
	Estimate	Standard error	95% Confidence Interval	
			Lower Bound	Upper Bound
Control	2.880	0.054	2.774	2.986
Imidacloprid (5 µg/mL)	1.960	0.070	1.823	2.097
Rifampicin (50 µg/mL)	2.925	0.042	2.843	3.007
Cecropin A (500 µg/mL)	2.925	0.046	2.836	3.014
Apidaecin (500 µg/mL)	2.967	0.037	2.895	3.038
Stomoxyn (500 µg/mL)	2.904	0.043	2.820	2.987
UyCT5 (500 µg/mL)	2.180	0.084	2.015	2.345
UyCT1 (500 µg/mL)	2.653	0.086	2.485	2.821
UyCT3 (500 µg/mL)	2.125	0.136	1.859	2.391
Um4 (500 µg/mL)	2.475	0.131	2.218	2.732
Uy17 (500 µg/mL)	2.525	0.080	2.368	2.682
Uy192 (500 µg/mL)	2.380	0.069	2.244	2.516
Uy234 (500 µg/mL)	2.600	0.081	2.441	2.759
D3 (500 µg/mL)	2.525	0.108	2.313	2.737
D5 (500 µg/mL)	2.680	0.073	2.537	2.823
D10 (500 µg/mL)	1.979	0.094	1.795	2.162
D11 (500 µg/mL)	2.720	0.077	2.569	2.871

a. Estimation is limited to the largest survival time if it is censored.

Table S2. List of primers and probes.

Method used	Target gene	Primer/probe name	Primer/probe sequence (5'→3')	Annealing temp (°C)/ Product size (bp) E /R ² (when applicable)	Reference
PCR	<i>Buchnera</i> (16S rRNA)	Buch16S1F Buch16S1R	GAGCTTGCTCTCTTTGTCGGCAA CTTCTGCGGGTAACGTCACGAA	66/430	Tsuchida et al., 2002 [1]
	<i>Serratia</i> (16S rRNA)	16SA1 PASScmp	AGAGTTTGATCMTGGCTCAG GCAATGTCTTATTAACACAT	59/480	Fukatsu & Nikoh, 1998 [2]
qPCR	Ribosomal protein L32	rpl32_F rpl32_R	AGTATCGCCCAACAATTATCA CTTGAATCGTCTTCGGACT	60/131 E=107.19% R ² = 0.998	Sapountzis et al., 2014 [3]
	<i>Buchnera</i> (16S rRNA)	Buchq1F Buchq1R	AGCGTGGGGAGCAAACAGGA ACATGCTCCACCGCTTGTGC	60/185 E=94.15% R ² =0.998	This study
	<i>Serratia</i> (16S rRNA)	Serq1_146F Serq1_269R	AGCGTGGGGAGCAAACAGGA ACTCCCCAGGCGGTTCGATTT	60/123 E=93.14% R ² =0.999	This study
FISH	<i>Buchnera</i> (16S rRNA)	ApisP2a - cy5	CCTCTTTGGGTAGATCC		Koga et al., 2003 [4]
	<i>Serratia</i> (16S rRNA)	SerratiaPA -cy3	GACATCGTTTACAGCGTGGA		This study

E= quantitative PCR efficiency, R²= coefficient of determination

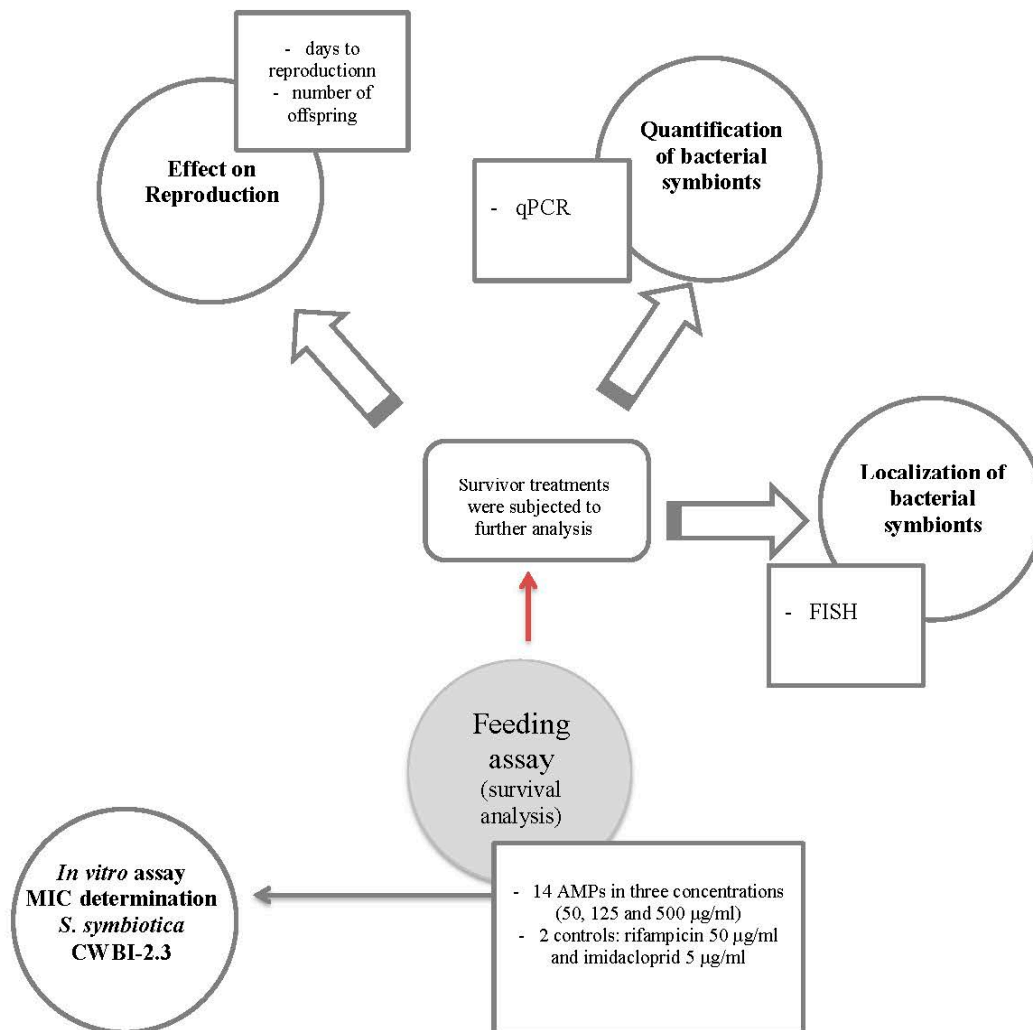


Figure S1. Scheme representing the methodology followed.

References

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