

Table S3. Number of '*S. philanthi*' CFUs isolated from different females' antennal samples.

Geographic origin	Host species	Number of specimens			Symbionts, CFU/specimen (mean \pm SE)
		Total	with symbionts isolated	with opportunistic bacteria isolated	
Europe	<i>Philanthus triangulum</i>	7	3	1	$\sim 10^4$ †
South Africa	<i>Philanthus triangulum diadema</i>	11	11	0	$\sim 10^5$ †
	<i>Philanthus histrio</i>	4	1	0	$14 \cdot 10^4$
	<i>Philanthus loefflingi</i>	2	1	0	$2 \cdot 10^4$
	<i>Philanthus fuscipennis</i>	3	2	1	22 ± 20
	<i>Philanthus capensis</i>	1	0	1	0
USA	<i>Philanthus albopilosus</i>	2	1	1	$70 \cdot 10^3$
	<i>Philanthus barbiger</i>	2	1	1	$15 \cdot 10^4$
	<i>Philanthus bicinctus</i>	5	5	0	$50 \cdot 10^3 \pm 14 \cdot 10^3$
	<i>Philanthus bilunatus</i>	3	3	0	$28 \cdot 10^3 \pm 13 \cdot 10^3$
	<i>Philanthus crabroniformis</i>	1	1	0	NA
	<i>Philanthus gibbosus</i>	3	3	0	$76 \cdot 10^3 \pm 39 \cdot 10^3$
	<i>Philanthus multimaculatus</i>	4	4	0	$43 \cdot 10^3 \pm 96 \cdot 10^2$
	<i>Philanthus pacificus</i>	1	1	0	2
	<i>Philanthus parkeri</i>	1	1	0	$63 \cdot 10^3$
	<i>Philanthus politus</i>	1	1	0	$72 \cdot 10^3$
	<i>Philanthus psyche</i>	4	4	0	$38 \cdot 10^3 \pm 21 \cdot 10^3$
	<i>Philanthus pulcher</i>	4	4	0	680 ± 447
	<i>Philanthus ventilabris</i>	7	6	1	$30 \cdot 10^3 \pm 23 \cdot 10^3$
	<i>Philanthus zebratus</i>	1	1	0	$1 \cdot 10^4$
	Brasil	<i>Trachypus elongatus</i>	1	1	0
<i>Trachypus flavidus</i>		3	1	0	NA †
Turkey	<i>Philanthinus</i>	16	7	2	77 ± 34
	<i>quattuordecimpunctatus</i>				

NA – not assessed; † - difficult to count because micro-colonies are fuzzy and poorly structured.