

Supplementary data 1. MALDI-TOF MS identification of louse species excluded from the final analyses.

Host	Species	Percentage of excluded specimens	LSVs obtain ed from blind tests against Databa se	Percen tage of correct identifi cation
Mammal lice	<i>Haematopin us</i>	2 (10%)	[1.687- 1.878]	1/2 (50%)
	<i>eurysternus</i>		-1.782	
	<i>Solenopotes</i>	9 (13.23%)	[1.304- 1.698]	7/9 (77.77 %)
	<i>Capillatus</i>		-1.561	
	<i>Linognathus</i>	10 (28.57)	[1.198- 1.781]	9/10 (90%)
	<i>vituli</i>		1.596	
	<i>Linognathus</i>	4 (19.05%)	[1.242- 1.613]	3/4 (75%)
	<i>africanus</i>		-1.432	
	<i>Bovicola</i>	12 (26.66)	[1.269- 2.031]	8/12 (66.66
	<i>caprae</i>			

			1.573	%)
	<i>Bovicola</i>	11 (27.5%)	[1.321-	3/11(2
	<i>bovis</i>		2.729]	7.27%)
			1.811	
	<i>Bovicola ovis</i>	39 (40.62%)	[1.188-	21/39
			2.658]	(53.84
			1.403	%)
Poultry lice	<i>Goniocotes</i>	/	/	/
	<i>gallinae</i>			
	<i>Goniodes</i>	/	/	/
	<i>gigas</i>			
	<i>Menopon</i>	3 (18.75%)	[1.605-	3/3
	<i>gallinae</i>		1.803]	(100%)
			-1.691	
	<i>Menacanthu</i>	4 (40%)	[1.075-	0%
	<i>s stramineus</i>		1.439]	
			1.276	
	<i>Chelopistes</i>	3/18 (37.5%)	[1.536-	0%
	<i>meleagridis</i>		1.627]	
			-1.594	
	<i>Lipeurus</i>	6 (75%)	/	/
	<i>caponis</i>			
Human lice	13	103 (25.25%)	1.572	55/90
				(61.11

%)