

**Table S3.** Comparative infection levels between males and females for *A. franciscana* hosts from Salar de Atacama lagoons and *A. persimilis* hosts from Patagonian lagoons in Chile. N, number of examined *Artemia* individuals; SE, standard error. FI-1, *Flamingolepis* sp.1; FI-2, *Flamingolepis* sp. 2; CP, *Confluaria podicipina*; Fsp, *Fimbriarioides* sp.; Wsp, *Wardium* sp; EA, *Eurycestus avoceti*; FA, *Fuhrmannolepis averini*; GS, *Gynandrotaenia stammeri*. Sex effects were analyzed using Z test for prevalence and Mann-Whitney U test for intensity and abundance.

	<i>A. franciscana</i>					<i>A. persimilis</i>				
	Males (N=539)	Females (N = 585)	Z	U	p-value	Males (N=524)	Females (N=576)	Z	U	p-value
<b>Total infection</b>										
N infected	21	25				55	45			
Prevalence %	3.9	4.3	0.187	-	0.852	10.5	7.8	1.451	-	0.147
Mean intensity ±SE	1.6 ±0.52	1.08 ±0.06	-	245	0.531	1.07 ±0.04	1.04 ±0.03		1224	0.862
Intensity range	1-12	1-2	-	-	-	1-3	1-2	-	-	-
Mean abundance ±SE	0.06 ±0.02	0.05 ±0.009	-	157080	0.754	0.11 ± 0.02	0.08 ±0.01	-	146848.5	0.127
<b>Specific cestode infection</b>										
Prevalence FI-1	2.4	3.8	1.175	-	0.240	4.2	5.9	-	-	-
Prevalence FI-2	0.4	0.2	0.0671	-	0.946	-	-	-	-	-
Prevalence CP	-	-	-	-	-	1.0	2.1	1.221	-	0.222
Prevalence Fsp	-	-	-	-	-	4.0	1.9	1.893	-	0.058
Prevalence Wsp	-	-	-	-	-	0.2	0	0.0954	-	0.924
Prevalence EA	0.2	0.2	-0.668	-	0.504	-	-	-	-	-
Prevalence FA	0.9	0	1.844	-	0.065	-	-	-	-	-
Prevalence GS	0.2	0.2	-0.668	-	0.504	-	-	-	-	-

(-) Denotes no available data