

1 Supplementary results

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3 **Supplementary table S1.** Survival estimates of seven wild caught *Polistes canadensis* colonies
 4 maintained under laboratory conditions for 15 months, as generated by Kaplan-Meier survival
 5 analysis. ^aEstimation is limited to the largest survival time if it is censored (colony M1).

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Colony	Mean ^a				Median			
	Estimate	Std. Error	95% Confidence Interval		Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound			Lower Bound	Upper Bound
M6	260.01	41.34	178.98	341.04	330	25.98	279.09	380.91
M1	238.8	28.62	182.7	294.9	240	24.81	191.34	288.66
M2	207.6	19.2	169.95	245.25	210	28.11	154.92	265.08
M3	194.22	29.76	135.87	252.57	210	31.53	148.17	271.83
M7	167.64	20.52	127.44	207.84	180	32.58	116.16	243.84
M4	151.59	24.96	102.63	200.52	90	18.66	53.43	126.57
M5	129.99	39.36	52.83	207.18	90	44.73	2.34	177.66
Overall	193.86	10.5	173.25	214.44	180	22.41	136.05	223.95

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9 **Supplementary table S2.** Pairwise differences in survival of seven wild caught *Polistes canadensis*
 10 colonies maintained under laboratory conditions for 15 months as detected using the Breslow
 11 statistic in a Kaplan-Meier survival analysis. Red boxes highlight significant pairwise differences.

Breslow (Generalized Wilcoxon)	Colony	M2		M3		M4		M5		M6		M7	
		χ^2	Sig.	χ^2	Sig.	χ^2	Sig.	χ^2	Sig.	χ^2	Sig.	χ^2	Sig.
		M1	1.093	.296	1.837	.175	4.058	.044	4.693	.030	.085	.770	3.795
M2			.058	.810	3.491	.062	4.325	.038	2.691	.101	1.593	.207	
M3					.941	.332	1.773	.183	2.735	.098	.893	.345	
M4							.230	.631	4.713	.030	.171	.679	
M5									4.843	.028	.473	.492	
M6											5.000	.025	

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14 **Supplementary table S3.** Survival estimates of six cohorts of wild caught *Polistes canadensis* split
 15 from 3 wild caught colonies and maintained under laboratory conditions for 220 days, as generated
 16 by Kaplan-Meier survival analysis.

Colony	Mean				Median			
	Estimate	Std. Error	95% Confidence Interval		Estimate	Std. Error	95% Confidence Interval	
			Lower Bound	Upper Bound			Lower Bound	Upper Bound
M10A	93.077	18.790	56.248	129.906	80.000	13.156	54.214	105.786
M10B	71.250	22.791	26.580	115.920	30.000	28.284	0.000	85.437
M8A	143.158	18.322	107.246	179.069	180.000	31.838	117.595	242.405
M8B	88.889	23.000	43.808	133.969	80.000	29.814	21.564	138.436
M9A	115.000	13.577	88.388	141.611	140.000	8.452	123.435	156.565
M9B	103.333	19.293	65.519	141.148	120.000	59.628	3.128	236.872
Overall	108.889	8.140	92.935	124.843	120.000	19.574	81.635	158.365

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19 **Supplementary table S4.** Pairwise differences in survival of six cohorts of wild caught *Polistes*
 20 *canadensis* split from 3 wild caught colonies and maintained under laboratory conditions for 220
 21 days, as detected using the Breslow statistic in a Kaplan-Meier survival analysis. Red boxes highlight
 22 significant pairwise differences.

Breslow (Generalized Wilcoxon)	Colony	M10B		M8A		M8B		M9A		M9B	
		χ^2	Sig.	χ^2	Sig.	χ^2	Sig.	χ^2	Sig.	χ^2	Sig.
	M10A	.394	.530	2.797	.094	.004	.947	1.225	.268	.214	.643
M10B			6.880	.009	.459	.498	2.441	.118	1.364	.243	
M8A					3.829	.050	4.340	.037	4.103	.043	
M8B							.832	.362	.280	.597	
M9A									.173	.677	

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26 **Supplementary table S5.** Survival differences between cohorts taken from the same colonies (3
 27 colonies in total), of wild caught *Polistes canadensis* and maintained under laboratory conditions for
 28 220 days, as detected using the Breslow statistic in a Kaplan-Meier survival analysis.

Origin	Chi-Square	df	Sig.
M8	3.829	1	.050
M9	.173	1	.677
M10	.394	1	.530

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