

## Supplementary Material

**Table S1. Branch length transformations used for phylogenetically independent contrasts.** Variable names are listed in [Table 3](#). Abbreviations: exp., exponential transformation; Gra., Grafen's transformation; ln, natural logarithm transformation; Nee, Nee's transformation;  $\rho_x$ , Grafen's rho transform, where x indicates the value of rho; untr., untransformed branch lengths.

	whole sample		family							locomotor type						
	fissipeds		Canidae	Mustelidae	Procyonidae	Ursidae	Felidae	Herpestidae	Viverridae	arboreal	semiarboreal	scansorial	terrestrial	semifossorial	semiaquatic	aquatic
<b>L<sub>s</sub></b>	$\rho_{0.5}$	Nee	$\rho_{0.5}$	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	exp.	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>S</b>	$\rho_{0.5}$	Nee	Nee	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	$\rho_{1.7}$	exp.	$\rho_{0.8}$	Nee	ln	untr.	Nee	untr.
<b>I</b>	Nee	Nee	$\rho_{0.5}$	$\rho_{0.5}$	ln	$\rho_{0.5}$	$\rho_{0.5}$	ln	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>A</b>	Nee	Nee	$\rho_{0.5}$	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>H<sub>s</sub></b>	$\rho_{0.5}$	$\rho_{0.5}$	Nee	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	Gra.	Nee	ln
<b>L<sub>h</sub></b>	Nee	$\rho_{0.5}$	ln	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	$\rho_{0.5}$	Nee	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	Nee
<b>d<sub>sh</sub></b>	Nee	$\rho_{0.5}$	Nee	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	untr.	Nee	$\rho_{0.1}$	ln	Nee	ln	$\rho_{0.3}$	exp.	ln
<b>d<sub>th</sub></b>	Nee	$\rho_{0.5}$	ln	$\rho_{0.5}$	Nee	$\rho_{0.1}$	$\rho_{0.5}$	untr.	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>T</b>	exp.	exp.	Gra.	$\rho_{0.5}$	$\rho_{0.5}$	Nee	untr.	$\rho_{2.0}$	$\rho_{1.7}$	exp.	Nee	exp.	exp.	untr.	Gra.	untr.
<b>HR</b>	exp.	exp.	Nee	$\rho_{0.5}$	untr.	$\rho_{0.5}$	$\rho_{0.5}$	untr.	Nee	$\rho_{0.1}$	Gra.	Nee	$\rho_{0.5}$	Gra.	Nee	$\rho_{0.8}$
<b>L<sub>r</sub></b>	Nee	$\rho_{0.5}$	ln	$\rho_{0.5}$	Nee	$\rho_{0.1}$	untr.	$\rho_{0.5}$	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Gra.	$\rho_{0.8}$
<b>d<sub>sr</sub></b>	Nee	Nee	$\rho_{0.5}$	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	untr.	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>d<sub>tr</sub></b>	Nee	$\rho_{0.5}$	$\rho_{0.5}$	ln	Nee	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>P</b>	Nee	Nee	Nee	$\rho_{0.5}$	untr.	Nee	$\rho_{0.5}$	$\rho_{0.5}$	Nee	$\rho_{0.1}$	$\rho_{0.8}$	Nee	exp.	untr.	Gra.	ln
<b>RR</b>	exp.	exp.	Nee	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	$\rho_{0.1}$	ln	Nee	ln	untr.	exp.	Nee
<b>L<sub>u</sub></b>	Nee	$\rho_{0.5}$	ln	$\rho_{0.5}$	Nee	$\rho_{0.1}$	$\rho_{0.5}$	ln	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Gra.	$\rho_{0.8}$
<b>d<sub>su</sub></b>	$\rho_{0.5}$	$\rho_{0.5}$	ln	$\rho_{0.5}$	Nee	Nee	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	untr.	Nee	$\rho_{0.8}$
<b>d<sub>tu</sub></b>	Nee	exp.	$\rho_{0.5}$	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	$\rho_{1.7}$	exp.	$\rho_{0.8}$	Nee	ln	untr.	exp.	$\rho_{0.8}$
<b>O</b>	$\rho_{0.5}$	$\rho_{0.5}$	Nee	$\rho_{0.5}$	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	exp.	$\rho_{0.8}$	Nee	ln	untr.	Nee	ln
<b><math>\theta</math></b>	exp.	exp.	Nee	exp.	$\rho_{0.5}$	Nee	untr.	ln	exp.	exp.	Nee	$\rho_{0.5}$	exp.	$\rho_{0.5}$	exp.	ln
<b><math>\alpha</math></b>	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{0.5}$	ln	ln	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	$\rho_{0.1}$	ln	Nee	ln	$\rho_{0.3}$	Nee	Nee
<b>UR</b>	$\rho_{0.5}$	$\rho_{0.5}$	Nee	ln	Nee	$\rho_{0.1}$	$\rho_{0.5}$	untr.	Nee	exp.	Nee	exp.	ln	Gra.	exp.	$\rho_{0.8}$
<b>IFA</b>	$\rho_{0.5}$	$\rho_{0.5}$	ln	$\rho_{0.5}$	Nee	exp.	$\rho_{0.5}$	ln	Nee	exp.	$\rho_{0.8}$	exp.	ln	$\rho_{0.3}$	Nee	$\rho_{0.8}$
<b>L<sub>m</sub></b>	Nee	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{0.5}$	Nee	$\rho_{0.1}$	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{1.7}$	$\rho_{0.1}$	ln	Nee	ln	Nee	exp.	$\rho_{0.8}$
<b>d<sub>sm</sub></b>	Nee	Nee	ln	$\rho_{0.5}$	untr.	Nee	$\rho_{0.5}$	ln	Nee	$\rho_{0.1}$	ln	Nee	ln	$\rho_{0.3}$	Gra.	Nee
<b>d<sub>tm</sub></b>	Nee	$\rho_{0.5}$	Nee	ln	ln	$\rho_{0.1}$	$\rho_{0.5}$	$\rho_{0.5}$	$\rho_{1.7}$	$\rho_{0.1}$	$\rho_{0.8}$	Nee	ln	$\rho_{0.3}$	Gra.	Nee
<b>MR</b>	$\rho_{0.5}$	$\rho_{0.5}$	ln	$\rho_{0.5}$	ln	$\rho_{0.1}$	$\rho_{0.5}$	$\rho_{0.5}$	Nee	$\rho_{0.5}$	Gra.	$\rho_{0.5}$	ln	$\rho_{0.3}$	Nee	ln
<b>%<sub>prox</sub></b>	Nee	$\rho_{0.5}$	Nee	ln	untr.	$\rho_{0.1}$	$\rho_{0.5}$	ln	Nee	$\rho_{0.1}$	$\rho_{0.8}$	$\rho_{0.5}$	ln	Gra.	exp.	Nee
<b>%<sub>mid</sub></b>	Nee	Nee	ln	Nee	untr.	$\rho_{0.5}$	untr.	untr.	$\rho_{1.7}$	exp.	Nee	Nee	ln	$\rho_{0.3}$	exp.	Nee
<b>%<sub>dist</sub></b>	$\rho_{0.5}$	exp.	ln	exp.	Nee	$\rho_{0.1}$	$\rho_{0.5}$	untr.	exp.	$\rho_{0.1}$	exp.	Nee	ln	Gra.	exp.	$\rho_{0.8}$

## Tables SR1 to SR30 – Results of traditional and PIC regressions

As indicated in Table 3, the following tables present the regression results for each variable. Both the results using traditional regression methods and phylogenetically independent contrasts (PIC) are shown for the whole sample and each of the subsamples (fissipeds, by Family, and by locomotor type). In each case, it is indicated (in the “sim.” columns) whether the theoretical values proposed by the geometric similarity hypothesis (G), the elastic similarity hypothesis (E), or both (B), are included in the 95% confidence interval for the slope  $b$  (95% CI <sub>$b$</sub> ). Furthermore, when neither theoretical value is included in the 95% CI <sub>$b$</sub> , it is indicated whether there is positive allometry (+;  $b$  is higher than both theoretical values), negative allometry (-;  $b$  is lower than both theoretical values), or both (nei.;  $b$  is higher than one theoretical values and lower than the other). Finally, the results of the comparison between the allometric coefficients obtained with each methodology are presented in the last column ( $b_{\text{trad}} \neq b_{\text{PIC}}$ ): a cross (×) indicates no significant differences, while a tick (✓) denotes that the slopes are significantly different from each other ( $p < 0.05$ ).

Variable names and abbreviations are given in Table 3, while the following abbreviations are common to all following tables: 95% CI <sub>$a$</sub> , 95% confidence interval for the coefficient  $a$ ; 95% CI <sub>$b$</sub> , 95% confidence interval for the allometric coefficient  $b$ ; n, sample size; n.s., unable to test differences due to non-significant regression; R, correlation coefficient; sim., similarity. Results in *grey italics* denote non-significant regressions.

SR1 – L <sub>s</sub>	traditional regression							PIC regression					
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>
<b>whole sample</b>	137	3.098	2.662 – 3.682	0.356	0.336 – 0.374	0.957	+	136	0.338	0.318 – 0.358	0.940	G	×
<b>fissipeds</b>	130	2.667	2.280 – 3.166	0.376	0.356 – 0.394	0.957	+	129	0.346	0.325 – 0.367	0.940	G	✓
<b>Family</b>													
Canidae	17	1.622	1.043 – 3.210	0.445	0.368 – 0.493	0.973	+	16	0.435	0.369 – 0.501	0.961	+	×
Mustelidae	32	2.970	2.214 – 3.985	0.341	0.304 – 0.378	0.956	G	31	0.330	0.283 – 0.377	0.923	G	×
Procyonidae	7	2.121	0.266 – 16.901	0.396	0.139 – 0.653	0.825	B	6	0.376	0.105 – 0.647	0.815	B	×
Ursidae	7	6.492	2.710 – 15.551	0.284	0.210 – 0.359	0.974	B	6	0.287	0.203 – 0.371	0.972	B	×
Felidae	26	5.271	4.163 – 6.674	0.313	0.288 – 0.338	0.982	G	25	0.317	0.283 – 0.351	0.968	G	×
Herpestidae	12	4.577	3.107 – 6.741	0.308	0.254 – 0.362	0.968	G	11	0.300	0.251 – 0.349	0.974	G	×
Eupleridae	5	4.173	0.881 – 19.767	0.329	0.115 – 0.543	0.935	B						
Viverridae	14	5.077	2.677 – 9.630	0.299	0.220 – 0.378	0.907	B	13	0.313	0.223 – 0.403	0.893	B	×
<b>Locomotor type</b>													
arboreal	7	2.219	0.414 – 11.900	0.382	0.174 – 0.590	0.881	B	6	0.216	0.201 – 0.231	0.998	–	×
semiarboreal	10	5.179	3.296 – 8.138	0.301	0.242 – 0.359	0.971	B	9	0.288	0.185 – 0.391	0.903	B	×
scansorial	45	4.017	3.297 – 4.894	0.335	0.314 – 0.356	0.978	G	44	0.334	0.309 – 0.359	0.970	G	×
terrestrial	49	2.056	1.540 – 2.961	0.411	0.367 – 0.447	0.963	+	48	0.339	0.301 – 0.377	0.925	G	✓
semifossorial	7	3.086	1.197 – 7.958	0.345	0.226 – 0.464	0.954	B	6	0.355	0.220 – 0.490	0.952	B	×
semiaquatic	11	3.334	1.226 – 9.068	0.329	0.212 – 0.446	0.881	B	10	0.349	0.231 – 0.467	0.897	B	×
aquatic	8	3.484	0.494 – 24.560	0.324	0.161 – 0.488	0.863	B	7	0.358	0.154 – 0.562	0.841	B	×

SR2 – S	traditional regression							PIC regression					
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>
<b>whole sample</b>	137	0.897	0.728 – 1.112	0.378	0.351 – 0.403	0.967	+	136	0.348	0.326 – 0.370	0.930	G	✓
<b>fissipeds</b>	130	1.045	0.915 – 1.216	0.358	0.342 – 0.373	0.971	+	129	0.335	0.314 – 0.356	0.933	G	✓
<b>Family</b>													
Canidae	17	0.498	0.305 – 1.212	0.432	0.335 – 0.486	0.956	+	16	0.438	0.360 – 0.516	0.947	+	×
Mustelidae	32	1.089	0.838 – 1.416	0.354	0.321 – 0.388	0.967	G	31	0.337	0.291 – 0.383	0.932	G	×
Procyonidae	7	1.615	0.315 – 8.270	0.311	0.109 – 0.513	0.825	B	6	<i>0.292</i>	<i>0.086 – 0.498</i>	<i>0.822</i>	<i>B</i>	n.s.
Ursidae	7	5.843	3.181 – 10.732	0.212	0.161 – 0.264	0.977	E	6	0.215	0.158 – 0.272	0.977	E	×
Felidae	26	1.608	1.239 – 2.086	0.320	0.292 – 0.347	0.979	G	25	0.322	0.282 – 0.362	0.956	G	×
Herpestidae	12	1.430	1.110 – 1.842	0.308	0.272 – 0.343	0.987	G	11	0.298	0.260 – 0.336	0.984	G	×
Eupleridae	5	1.291	0.725 – 2.299	0.336	0.257 – 0.416	0.992	G						
Viverridae	14	1.720	0.963 – 3.072	0.298	0.226 – 0.370	0.924	B	13	<i>0.298</i>	<i>0.134 – 0.462</i>	<i>0.497</i>	<i>B</i>	n.s.
<b>Locomotor type</b>													
arboreal	7	0.733	0.350 – 1.538	0.407	0.315 – 0.498	0.981	G	6	0.343	0.342 – 0.344	1.000	+	×
semiarboreal	10	1.614	0.972 – 2.680	0.318	0.252 – 0.384	0.967	G	9	0.302	0.188 – 0.416	0.892	B	×
scansorial	45	1.266	1.066 – 1.503	0.343	0.325 – 0.362	0.984	G	44	0.330	0.299 – 0.361	0.953	G	×
terrestrial	49	1.154	0.995 – 1.369	0.338	0.318 – 0.357	0.983	G	48	0.336	0.304 – 0.368	0.945	G	×
semifossorial	7	0.537	0.097 – 2.959	0.420	0.205 – 0.635	0.895	B	6	0.389	0.166 – 0.612	0.888	B	×
semiaquatic	11	1.038	0.545 – 1.977	0.362	0.287 – 0.438	0.961	G	10	0.401	0.295 – 0.507	0.939	G	×
aquatic	8	<i>0.203</i>	<i>0.001 – 28.536</i>	<i>0.517</i>	<i>0.103 – 0.931</i>	<i>0.597</i>	<i>B</i>	7	<i>0.388</i>	<i>0.130 – 0.646</i>	<i>0.773</i>	<i>B</i>	n.s.

SR3 – I	traditional regression							PIC regression					
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>
whole sample	137	0.716	0.538 – 0.939	0.423	0.392 – 0.453	0.927	+	136	0.386	0.356 – 0.416	0.892	+	✓
fissipeds	130	0.614	0.460 – 0.806	0.443	0.412 – 0.474	0.924	+	129	0.384	0.358 – 0.410	0.922	+	✓
<b>Family</b>													
Canidae	17	0.978	0.509 – 2.697	0.399	0.286 – 0.472	0.933	G	16	0.418	0.324 – 0.512	0.914	G	×
Mustelidae	32	0.450	0.228 – 0.705	0.440	0.383 – 0.497	0.937	+	31	0.416	0.350 – 0.482	0.904	+	×
Procyonidae	7	4.282	1.564 – 11.724	0.233	0.108 – 0.357	0.885	B	6	<i>0.238</i>	<i>0.066 – 0.410</i>	<i>0.812</i>	<i>B</i>	n.s.
Ursidae	7	9.192	2.518 – 33.546	0.204	0.094 – 0.314	0.883	E	6	<i>0.202</i>	<i>0.086 – 0.318</i>	<i>0.866</i>	<i>E</i>	n.s.
Felidae	26	1.884	1.410 – 2.517	0.330	0.299 – 0.360	0.975	G	25	0.347	0.302 – 0.392	0.951	G	×
Herpestidae	12	1.830	1.083 – 3.094	0.316	0.243 – 0.390	0.944	B	11	0.317	0.248 – 0.386	0.953	B	×
Eupleridae	5	0.624	0.068 – 5.761	0.451	0.145 – 0.758	0.929	B						
Viverridae	14	2.579	1.429 – 4.653	0.289	0.216 – 0.362	0.916	B	13	0.323	0.234 – 0.412	0.901	B	×
<b>Locomotor type</b>													
arboreal	7	1.561	0.735 – 3.316	0.357	0.264 – 0.450	0.974	G	6	0.357	0.255 – 0.459	0.973	G	×
semiarboreal	10	1.883	0.769 – 4.606	0.320	0.204 – 0.437	0.895	B	9	0.299	0.219 – 0.379	0.947	B	×
scansorial	45	1.113	0.850 – 1.458	0.385	0.356 – 0.414	0.969	+	44	0.385	0.340 – 0.430	0.925	+	×
terrestrial	49	0.450	0.294 – 0.763	0.477	0.418 – 0.526	0.932	+	48	0.362	0.317 – 0.407	0.907	G	✓
semifossorial	7	0.497	0.089 – 2.781	0.446	0.229 – 0.662	0.906	B	6	0.475	0.249 – 0.701	0.924	B	×
semiaquatic	11	0.425	0.085 – 2.115	0.449	0.261 – 0.637	0.832	G	10	0.459	0.293 – 0.625	0.883	G	×
aquatic	8	<i>0.151</i>	<i>0.001 – 16.286</i>	<i>0.527</i>	<i>0.135 – 0.919</i>	<i>0.667</i>	<i>B</i>	7	<i>0.556</i>	<i>0.024 – 1.088</i>	<i>0.412</i>	<i>B</i>	n.s.

SR4 – A	traditional regression							PIC regression					
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>
whole sample	137	1.774	1.500 – 2.112	0.392	0.373 – 0.410	0.970	+	136	0.355	0.333 – 0.377	0.931	G	✓
fissipeds	130	1.785	1.518 – 2.087	0.391	0.374 – 0.409	0.965	+	129	0.353	0.332 – 0.374	0.940	G	✓
<b>Family</b>													
Canidae	17	1.391	0.776 – 3.607	0.419	0.316 – 0.483	0.954	G	16	0.428	0.348 – 0.508	0.941	+	×
Mustelidae	32	1.564	1.134 – 2.157	0.387	0.346 – 0.428	0.959	+	31	0.366	0.313 – 0.414	0.921	G	×
Procyonidae	7	4.772	1.770 – 12.868	0.285	0.162 – 0.408	0.927	B	6	<b>0.286</b>	<b>0.111 – 0.461</b>	<b>0.870</b>	<b>B</b>	n.s.
Ursidae	7	18.339	8.036 – 41.855	0.191	0.121 – 0.261	0.948	E	6	0.191	0.116 – 0.266	0.949	E	×
Felidae	26	3.476	2.743 – 4.405	0.327	0.302 – 0.352	0.983	G	25	0.335	0.298 – 0.372	0.965	G	×
Herpestidae	12	3.643	2.675 – 4.961	0.301	0.258 – 0.344	0.979	G	11	0.300	0.255 – 0.345	0.978	G	×
Eupleridae	5	2.216	0.745 – 6.586	0.369	0.218 – 0.519	0.975	B						
Viverridae	14	4.444	2.757 – 7.164	0.288	0.229 – 0.347	0.945	B	13	0.297	0.237 – 0.357	0.948	B	×
<b>Locomotor type</b>													
arboreal	7	2.544	1.433 – 4.517	0.360	0.288 – 0.431	0.985	G	6	0.358	0.278 – 0.438	0.984	G	×
semiarboreal	10	4.124	2.636 – 6.452	0.300	0.241 – 0.358	0.971	B	9	0.277	0.210 – 0.344	0.958	B	×
scansorial	45	2.386	1.964 – 2.899	0.365	0.344 – 0.386	0.982	+	44	0.360	0.325 – 0.395	0.951	G	×
terrestrial	49	1.612	1.281 – 2.121	0.399	0.369 – 0.425	0.969	+	48	0.345	0.309 – 0.381	0.935	G	✓
semifossorial	7	1.304	0.392 – 4.336	0.409	0.258 – 0.560	0.947	G	6	0.420	0.262 – 0.578	0.953	G	×
semiaquatic	11	1.449	0.598 – 3.512	0.399	0.295 – 0.502	0.939	G	10	0.425	0.317 – 0.533	0.943	G	×
aquatic	8	0.997	0.038 – 26.417	0.439	0.165 – 0.714	0.780	B	7	<b>0.373</b>	<b>0.090 – 0.656</b>	<b>0.693</b>	<b>B</b>	n.s.

SR5 – Hs	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
whole sample	137	0.171	0.100 – 0.292	0.454	0.393 – 0.515	0.822	+	136	0.463	0.416 – 0.510	0.804	+	×	
fissipeds	130	0.114	0.068 – 0.198	0.510	0.449 – 0.568	0.897	+	129	0.474	0.429 – 0.519	0.839	+	×	
<b>Family</b>														
Canidae	17	0.166	0.100 – 0.440	0.480	0.374 – 0.534	0.947	+	16	0.441	0.353 – 0.529	0.933	+	×	
Mustelidae	32	0.073	0.032 – 0.165	0.548	0.444 – 0.653	0.860	+	31	0.497	0.384 – 0.610	0.791	+	×	
Procyonidae	7	0.111	0.008 – 1.459	0.531	0.212 – 0.850	0.852	B	6	<i>0.523</i>	<i>0.152 – 0.894</i>	<i>0.821</i>	B	n.s.	
Ursidae	7	2.019	0.341 – 11.971	0.237	0.086 – 0.389	0.831	B	6	<i>0.235</i>	<i>0.071 – 0.399</i>	<i>0.829</i>	B	n.s.	
Felidae	26	0.320	0.192 – 0.532	0.407	0.353 – 0.461	0.949	+	25	0.437	0.361 – 0.513	0.913	+	×	
Herpestidae	12	0.827	0.434 – 1.573	0.278	0.188 – 0.368	0.887	B	11	0.250	0.158 – 0.342	0.858	B	×	
Eupleridae	5	0.310	0.036 – 2.665	0.397	0.101 – 0.693	0.914	B							
Viverridae	14	0.223	0.102 – 0.484	0.431	0.335 – 0.528	0.935	+	13	0.450	0.329 – 0.571	0.906	G	×	
<b>Locomotor type</b>														
arboreal	7	0.219	0.044 – 1.098	0.429	0.229 – 0.628	0.914	B	6	0.425	0.215 – 0.635	0.917	B	×	
semiarboreal	10	0.220	0.084 – 0.576	0.442	0.317 – 0.567	0.938	G	9	0.441	0.232 – 0.650	0.825	B	×	
scansorial	45	0.270	0.201 – 0.364	0.420	0.388 – 0.452	0.968	+	44	0.435	0.384 – 0.486	0.924	+	×	
terrestrial	49	0.096	0.044 – 0.224	0.535	0.434 – 0.625	0.916	+	48	0.455	0.388 – 0.522	0.866	+	×	
semifossorial	7	<i>0.005</i>	<i>0.000 – 2.586</i>	<i>0.866</i>	<i>0.089 – 1.644</i>	<i>0.626</i>	B	6	<i>0.564</i>	<i>0.068 – 1.060</i>	<i>0.706</i>	B	n.s.	
semiaquatic	11	0.024	0.002 – 0.369	0.667	0.349 – 0.985	0.775	+	10	<i>0.847</i>	<i>0.338 – 1.356</i>	<i>0.623</i>	+	n.s.	
aquatic	8	<i>0.038</i>	<i>0.000 – 11.844</i>	<i>0.483</i>	<i>0.000 – 0.965</i>	<i>0.004</i>	B	7	<i>0.580</i>	<i>-0.007 – 1.167</i>	<i>0.263</i>	B	n.s.	

SR6 – L <sub>h</sub>	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
whole sample	137	5.994	4.878 – 7.355	0.318	0.293 – 0.344	0.909	G	136	0.311	0.289 – 0.333	0.911	nei.	×	
fissipeds	130	4.580	3.959 – 5.399	0.354	0.334 – 0.370	0.946	+	129	0.311	0.290 – 0.332	0.924	nei.	✓	
<b>Family</b>														
Canidae	17	3.350	1.705 – 11.350	0.401	0.263 – 0.478	0.920	G	16	0.415	0.314 – 0.516	0.898	G	×	
Mustelidae	32	6.018	4.208 – 8.608	0.298	0.252 – 0.344	0.912	G	31	0.292	0.244 – 0.340	0.897	B	×	
Procyonidae	7	13.706	5.597 – 33.563	0.224	0.113 – 0.335	0.902	B	6	<i>0.219</i>	<i>0.081 – 0.357</i>	<i>0.861</i>	<i>B</i>	n.s.	
Ursidae	7	13.772	6.344 – 29.899	0.252	0.186 – 0.318	0.974	E	6	0.256	0.186 – 0.326	0.975	E	×	
Felidae	26	9.680	7.805 – 12.006	0.285	0.263 – 0.308	0.982	nei.	25	0.295	0.264 – 0.326	0.969	nei.	×	
Herpestidae	12	6.732	3.892 – 11.644	0.299	0.222 – 0.375	0.931	B	11	0.285	0.213 – 0.357	0.935	B	×	
Eupleridae	5	5.553	3.834 – 8.042	0.338	0.287 – 0.389	0.997	G							
Viverridae	14	11.070	6.159 – 19.896	0.248	0.175 – 0.321	0.885	E	13	0.282	0.204 – 0.360	0.901	B	×	
<b>Locomotor type</b>														
arboreal	7	5.956	2.087 – 16.997	0.334	0.204 – 0.463	0.941	B	6	0.334	0.193 – 0.475	0.940	B	×	
semiarboreal	10	10.101	6.958 – 14.664	0.270	0.222 – 0.319	0.975	E	9	0.241	0.147 – 0.335	0.884	B	×	
scansorial	45	6.878	5.800 – 8.156	0.316	0.298 – 0.335	0.982	G	44	0.314	0.289 – 0.339	0.966	G	×	
terrestrial	49	3.645	2.899 – 5.137	0.381	0.338 – 0.408	0.959	+	48	0.323	0.282 – 0.364	0.900	G	✓	
semifossorial	7	4.750	1.793 – 12.584	0.324	0.201 – 0.446	0.944	B	6	0.336	0.197 – 0.475	0.942	B	×	
semiaquatic	11	8.410	3.903 – 18.128	0.256	0.166 – 0.346	0.885	B	10	0.269	0.183 – 0.355	0.911	B	×	
aquatic	8	10.127	1.925 – 53.281	0.222	0.083 – 0.361	0.779	B	7	<i>0.237</i>	<i>0.090 – 0.384</i>	<i>0.808</i>	<i>B</i>	n.s.	



SR7 – d <sub>sh</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
whole sample	137	0.396	0.352 – 0.454	0.376	0.362 – 0.389	0.975	E	136	0.383	0.359 – 0.407	0.933	E	×	
fissipeds	130	0.371	0.329 – 0.432	0.385	0.368 – 0.399	0.971	E	129	0.387	0.361 – 0.413	0.927	E	×	
<b>Family</b>														
Canidae	17	0.138	0.071 – 0.467	0.488	0.355 – 0.560	0.959	E	16	0.454	0.372 – 0.536	0.945	E	×	
Mustelidae	32	0.326	0.226 – 0.469	0.399	0.352 – 0.445	0.950	E	31	0.386	0.319 – 0.453	0.883	B	×	
Procyonidae	7	0.496	0.117 – 2.092	0.370	0.191 – 0.548	0.908	B	6	<i>0.366</i>	<i>0.147 – 0.585</i>	<i>0.876</i>	<i>B</i>	n.s.	
Ursidae	7	0.962	0.607 – 1.522	0.293	0.254 – 0.332	0.993	–	6	0.295	0.252 – 0.338	0.993	G	×	
Felidae	26	0.353	0.271 – 0.459	0.393	0.365 – 0.421	0.986	E	25	0.382	0.341 – 0.423	0.968	E	×	
Herpestidae	12	0.676	0.424 – 1.078	0.302	0.237 – 0.368	0.952	G	11	0.322	0.262 – 0.382	0.966	B	×	
Eupleridae	5	0.151	0.043 – 0.529	0.515	0.342 – 0.688	0.983	E							
Viverridae	14	0.474	0.209 – 1.077	0.349	0.248 – 0.451	0.887	B	13	0.338	0.263 – 0.413	0.937	B	×	
<b>Locomotor type</b>														
arboreal	7	0.443	0.269 – 0.730	0.375	0.313 – 0.437	0.990	B	6	0.371	0.305 – 0.437	0.990	B	×	
semiarboreal	10	0.320	0.189 – 0.542	0.416	0.347 – 0.485	0.979	E	9	0.418	0.333 – 0.503	0.970	B	×	
scansorial	45	0.374	0.302 – 0.465	0.384	0.360 – 0.407	0.980	E	44	0.382	0.347 – 0.417	0.956	E	×	
terrestrial	49	0.372	0.300 – 0.500	0.381	0.347 – 0.406	0.968	E	48	0.354	0.312 – 0.396	0.917	B	×	
semifossorial	7	0.502	0.211 – 1.197	0.337	0.227 – 0.446	0.959	B	6	0.350	0.211 – 0.489	0.948	B	×	
semiaquatic	11	0.294	0.094 – 0.922	0.418	0.284 – 0.552	0.906	B	10	0.527	0.279 – 0.775	0.791	B	×	
aquatic	8	0.249	0.025 – 2.525	0.407	0.213 – 0.601	0.879	B	7	0.443	0.261 – 0.625	0.920	B	n.s.	

SR8 – d <sub>th</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	137	0.319	0.281 – 0.365	0.369	0.354 – 0.384	0.973	E	136	0.347	0.324 – 0.370	0.923	G	×	
<b>fissipeds</b>	130	0.322	0.285 – 0.372	0.368	0.353 – 0.383	0.968	E	129	0.341	0.319 – 0.363	0.931	G	✓	
<b>Family</b>														
Canidae	17	0.185	0.084 – 0.505	0.430	0.320 – 0.517	0.941	B	16	0.426	0.328 – 0.524	0.910	B	×	
Mustelidae	32	0.466	0.348 – 0.623	0.307	0.270 – 0.344	0.946	G	31	0.319	0.270 – 0.368	0.910	G	×	
Procyonidae	7	0.810	0.370 – 1.772	0.267	0.170 – 0.364	0.949	G	6	0.261	0.167 – 0.355	0.957	G	×	
Ursidae	7	2.289	0.776 – 6.751	0.208	0.116 – 0.300	0.923	–	6	0.209	0.109 – 0.309	0.922	–	×	
Felidae	26	0.381	0.288 – 0.505	0.354	0.324 – 0.384	0.980	B	25	0.339	0.301 – 0.377	0.964	B	×	
Herpestidae	12	0.811	0.494 – 1.330	0.242	0.173 – 0.312	0.913	–	11	0.254	0.189 – 0.319	0.934	–	×	
Eupleridae	5	0.204	0.084 – 0.496	0.439	0.316 – 0.561	0.988	B							
Viverridae	14	0.430	0.225 – 0.825	0.331	0.251 – 0.412	0.922	B	13	0.488	0.308 – 0.668	0.814	B	×	
<b>Locomotor type</b>														
arboreal	7	0.533	0.280 – 1.015	0.318	0.238 – 0.398	0.976	B	6	0.315	0.228 – 0.402	0.975	B	×	
semiarboreal	10	0.363	0.184 – 0.716	0.362	0.274 – 0.451	0.954	B	9	0.374	0.233 – 0.515	0.892	B	×	
scansorial	45	0.303	0.253 – 0.363	0.379	0.359 – 0.398	0.986	E	44	0.349	0.320 – 0.378	0.963	B	✓	
terrestrial	49	0.335	0.281 – 0.426	0.361	0.334 – 0.382	0.967	E	48	0.342	0.301 – 0.383	0.915	B	×	
semifossorial	7	0.432	0.196 – 0.954	0.322	0.222 – 0.421	0.963	B	6	0.335	0.188 – 0.482	0.935	B	×	
semiaquatic	11	0.671	0.312 – 1.444	0.263	0.173 – 0.353	0.892	G	10	0.307	0.194 – 0.420	0.878	B	×	
aquatic	8	0.084	0.005 – 1.511	0.479	0.237 – 0.720	0.863	B	7	<b>0.450</b>	<b>0.152 – 0.748</b>	<b>0.775</b>	<b>B</b>	n.s.	

SR9 – T	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
whole sample	137	0.558	0.162 – 1.071	$6.14 \cdot 10^{-5}$	$2.68 \cdot 10^{-5} - 7.63 \cdot 10^{-5}$	0.619	+	136	$4.12 \cdot 10^{-5}$	$3.43 \cdot 10^{-5} - 4.81 \cdot 10^{-5}$	0.190	+	×	
fissipeds	130	0.447	0.137 – 0.927	$6.56 \cdot 10^{-5}$	$4.68 \cdot 10^{-6} - 9.11 \cdot 10^{-5}$	0.251	+	129	$4.22 \cdot 10^{-5}$	$3.49 \cdot 10^{-6} - 4.95 \cdot 10^{-5}$	0.157	+	n.s.	
<b>Family</b>														
Canidae	17	1.560	0.840 – 2.499	$1.88 \cdot 10^{-4}$	$6.55 \cdot 10^{-5} - 2.55 \cdot 10^{-4}$	0.763	+	16	$1.34 \cdot 10^{-4}$	$7.12 \cdot 10^{-5} - 1.97 \cdot 10^{-4}$	0.530	+	×	
Mustelidae	32	0.545	0.127 – 1.824	$-1.17 \cdot 10^{-4}$	$-4.22 \cdot 10^{-4} - -7.62 \cdot 10^{-5}$	0.288	–	31	$-1.19 \cdot 10^{-4}$	$-1.59 \cdot 10^{-4} - -7.87 \cdot 10^{-5}$	0.419	–	n.s.	
Procyonidae	7	-1.081	-2.525 – 0.362	$3.00 \cdot 10^{-4}$	$2.72 \cdot 10^{-6} - 0.001$	0.174	+	6	$3.34 \cdot 10^{-4}$	$-7.96 \cdot 10^{-5} - 7.48 \cdot 10^{-4}$	0.075	B	n.s.	
Ursidae	7	-2.861	-6.636 – 0.913	$2.09 \cdot 10^{-5}$	$-3.87 \cdot 10^{-5} - 5.91 \cdot 10^{-5}$	0.462	B	6	$2.25 \cdot 10^{-5}$	$-3.93 \cdot 10^{-6} - 4.89 \cdot 10^{-5}$	0.327	B	n.s.	
Felidae	26	1.374	0.832 – 1.916	$5.71 \cdot 10^{-5}$	$1.38 \cdot 10^{-5} - 7.08 \cdot 10^{-5}$	0.892	+	25	$5.47 \cdot 10^{-5}$	$4.24 \cdot 10^{-5} - 6.70 \cdot 10^{-5}$	0.847	+	×	
Herpestidae	12	0.248	-0.187 – 0.683	$4.50 \cdot 10^{-4}$	$3.00 \cdot 10^{-4} - 0.001$	0.710	+	11	$4.42 \cdot 10^{-4}$	$1.75 \cdot 10^{-4} - 7.09 \cdot 10^{-4}$	0.530	+	n.s.	
Eupleridae	5	1.408	-0.147 – 6.976	$-5.63 \cdot 10^{-4}$	$-0.005 - -3.75 \cdot 10^{-4}$	0.271	–							
Viverridae	14	-0.339	-1.351 – 0.674	$3.28 \cdot 10^{-4}$	$1.13 \cdot 10^{-4} - 8.69 \cdot 10^{-4}$	0.560	+	13	$2.93 \cdot 10^{-4}$	$1.50 \cdot 10^{-4} - 4.36 \cdot 10^{-4}$	0.637	+	×	
<b>Locomotor type</b>														
arboreal	7	-0.584	-5.474 – 1.021	$1.71 \cdot 10^{-4}$	$-6.07 \cdot 10^{-4} - 0.002$	0.063	B	6	$6.30 \cdot 10^{-5}$	$4.10 \cdot 10^{-5} - 8.50 \cdot 10^{-5}$	0.960	+	n.s.	
semiarboreal	10	-0.769	-2.612 – -0.087	$2.55 \cdot 10^{-4}$	$4.97 \cdot 10^{-5} - 9.93 \cdot 10^{-4}$	0.508	+	9	$2.53 \cdot 10^{-4}$	$1.02 \cdot 10^{-4} - 4.04 \cdot 10^{-4}$	0.702	+	n.s.	
scansorial	45	0.233	-0.487 – 0.929	$4.64 \cdot 10^{-5}$	$2.16 \cdot 10^{-5} - 6.63 \cdot 10^{-5}$	0.440	+	44	$5.14 \cdot 10^{-5}$	$4.33 \cdot 10^{-5} - 5.95 \cdot 10^{-5}$	0.861	+	×	
terrestrial	49	1.596	-0.963 – 3.215	$7.61 \cdot 10^{-5}$	$-2.15 \cdot 10^{-4} - 1.99 \cdot 10^{-4}$	0.131	B	48	$1.31 \cdot 10^{-4}$	$1.10 \cdot 10^{-4} - 1.52 \cdot 10^{-4}$	0.838	+	n.s.	
semifossorial	7	-0.264	-0.728 – 0.151	$1.96 \cdot 10^{-4}$	$1.34 \cdot 10^{-4} - 2.90 \cdot 10^{-4}$	0.898	+	6	$1.89 \cdot 10^{-4}$	$7.46 \cdot 10^{-5} - 3.03 \cdot 10^{-4}$	0.873	+	n.s.	
semiaquatic	11	0.705	-0.246 – 2.327	$-9.49 \cdot 10^{-5}$	$-2.74 \cdot 10^{-4} - 7.69 \cdot 10^{-5}$	0.115	B	10	$-8.41 \cdot 10^{-5}$	$-1.47 \cdot 10^{-4} - -2.11 \cdot 10^{-5}$	0.229	–	n.s.	
aquatic	8	1.444	-21.620 – 14.430	$5.67 \cdot 10^{-5}$	$-2.95 \cdot 10^{-5} - 1.92 \cdot 10^{-4}$	0.642	B	7	$4.75 \cdot 10^{-5}$	$1.82 \cdot 10^{-5} - 7.68 \cdot 10^{-5}$	0.809	+	n.s.	

SR10 – HR	traditional regression							PIC regression					
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>
<b>whole sample</b>	137	0.029	0.023 – 0.036	0.156	0.128 – 0.184	0.499	+	136	0.221	0.186 – 0.256	0.388	+	✓
<b>fissipeds</b>	130	0.034	0.028 – 0.044	0.132	0.101 – 0.157	0.289	E	129	0.222	0.186 – 0.258	0.381	+	✓
<b>Family</b>													
Canidae	17	0.015	$4.19 \cdot 10^{-4} - 0.046$	0.198	0.071 – 0.589	0.500	E	16	0.216	0.097 – 0.335	0.073	E	n.s.
Mustelidae	32	0.028	0.018 – 0.047	0.186	0.125 – 0.240	0.575	E	31	0.181	0.120 – 0.242	0.431	E	×
Procyonidae	7	0.024	$4.28 \cdot 10^{-4} - 0.071$	0.200	0.060 – 0.674	0.674	E	6	0.201	0.014 – 0.388	0.662	E	n.s.
Ursidae	7	0.046	0.004 – 0.106	0.076	0.005 – 0.292	0.575	E	6	0.073	-0.006 – 0.152	0.495	B	n.s.
Felidae	26	0.030	0.023 – 0.040	0.130	0.098 – 0.154	0.823	E	25	0.134	0.090 – 0.178	0.626	E	×
Herpestidae	12	0.030	0.002 – 0.079	0.174	0.030 – 0.563	0.055	E	11	0.168	0.055 – 0.281	0.335	E	n.s.
Eupleridae	5	0.025	0.013 – 0.189	0.190	-0.118 – 0.275	0.909	B						
Viverridae	14	0.031	0.020 – 0.067	0.141	0.043 – 0.193	0.651	E	13	0.140	0.061 – 0.219	0.456	E	n.s.
<b>Locomotor type</b>													
arboreal	7	0.034	$5.96 \cdot 10^{-4} - 0.150$	0.140	-0.059 – 0.646	0.408	B	6	0.124	$-3.60 \cdot 10^{-4} - 0.248$	0.584	B	n.s.
semiarboreal	10	0.024	0.013 – 0.057	0.180	0.069 – 0.252	0.806	E	9	0.246	0.097 – 0.395	0.690	E	×
scansorial	45	0.038	0.032 – 0.048	0.105	0.080 – 0.125	0.615	E	44	0.128	0.094 – 0.162	0.484	E	×
terrestrial	49	0.042	0.006 – 0.055	0.109	0.079 – 0.362	0.028	E	48	0.134	0.096 – 0.172	0.265	E	n.s.
semifossorial	7	0.064	0.014 – 0.092	0.076	0.021 – 0.260	0.227	E	6	0.064	-0.013 – 0.141	0.273	B	n.s.
semiaquatic	11	0.015	0.006 – 0.115	0.260	0.022 – 0.367	0.583	E	10	0.291	0.111 – 0.471	0.592	E	n.s.
aquatic	8	0.007	$3.94 \cdot 10^{-5} - 0.603$	0.296	-0.058 – 0.744	0.625	B	7	0.261	0.094 – 0.428	0.794	E	n.s.

SR11 – L <sub>r</sub>	traditional regression							PIC regression					
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>
<b>whole sample</b>	137	3.503	2.778 – 4.515	0.362	0.331 – 0.390	0.896	G	136	0.352	0.326 – 0.378	0.899	G	×
<b>fissipeds</b>	130	2.692	2.158 – 3.436	0.397	0.368 – 0.423	0.910	+	129	0.344	0.318 – 0.370	0.900	G	✓
<b>Family</b>													
Canidae	17	2.019	0.816 – 10.965	0.454	0.269 – 0.557	0.879	G	16	0.476	0.332 – 0.620	0.839	G	×
Mustelidae	32	3.649	2.378 – 5.600	0.325	0.270 – 0.379	0.893	G	31	0.318	0.266 – 0.370	0.897	G	×
Procyonidae	7	5.160	1.453 – 18.328	0.325	0.168 – 0.482	0.907	B	6	0.300	0.181 – 0.419	0.946	B	×
Ursidae	7	10.348	5.301 – 20.199	0.260	0.203 – 0.317	0.982	E	6	0.261	0.197 – 0.325	0.980	E	×
Felidae	26	8.534	5.789 – 12.579	0.288	0.246 – 0.329	0.940	E	25	0.337	0.282 – 0.392	0.922	G	×
Herpestidae	12	3.392	1.410 – 8.158	0.368	0.245 – 0.492	0.880	B	11	0.354	0.234 – 0.474	0.881	B	×
Eupleridae	5	8.373	1.676 – 41.831	0.269	0.048 – 0.491	0.894	B						
Viverridae	14	8.179	4.764 – 14.044	0.262	0.195 – 0.329	0.914	B	13	0.291	0.156 – 0.426	0.682	B	×
<b>Locomotor type</b>													
arboreal	7	3.606	0.891 – 14.601	0.363	0.190 – 0.536	0.910	B	6	0.368	0.184 – 0.552	0.915	B	×
semiarboreal	10	9.473	6.558 – 13.683	0.250	0.202 – 0.298	0.972	E	9	0.226	0.133 – 0.319	0.872	E	×
scansorial	45	5.991	4.633 – 7.748	0.317	0.290 – 0.345	0.958	G	44	0.336	0.300 – 0.372	0.939	G	×
terrestrial	49	1.709	1.167 – 2.768	0.457	0.396 – 0.506	0.941	+	48	0.361	0.312 – 0.410	0.890	G	✓
semifossorial	7	3.434	0.908 – 12.985	0.342	0.175 – 0.510	0.905	B	6	0.362	0.184 – 0.540	0.918	B	×
semiaquatic	11	4.515	1.267 – 16.083	0.293	0.144 – 0.442	0.739	B	10	0.239	0.142 – 0.336	0.850	B	×
aquatic	8	2.372	0.424 – 13.268	0.347	0.203 – 0.491	0.909	B	7	0.338	0.192 – 0.484	0.911	B	×

SR12 – d <sub>sr</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
whole sample	137	0.282	0.244 – 0.327	0.335	0.318 – 0.352	0.961	G	136	0.358	0.331 – 0.385	0.894	B	×	
fissipeds	130	0.270	0.233 – 0.316	0.341	0.323 – 0.357	0.956	G	129	0.357	0.330 – 0.384	0.902	B	×	
<b>Family</b>														
Canidae	17	0.096	0.052 – 0.327	0.465	0.329 – 0.531	0.936	B	16	0.427	0.326 – 0.528	0.905	B	×	
Mustelidae	32	0.291	0.202 – 0.421	0.326	0.279 – 0.373	0.922	G	31	0.342	0.277 – 0.407	0.863	B	×	
Procyonidae	7	0.485	0.154 – 1.528	0.275	0.133 – 0.417	0.893	B	6	0.254	0.129 – 0.379	0.917	B	×	
Ursidae	7	0.314	0.035 – 2.851	0.320	0.132 – 0.508	0.860	B	6	<i>0.328</i>	<i>0.127 – 0.529</i>	<i>0.870</i>	<i>B</i>	n.s.	
Felidae	26	0.154	0.107 – 0.221	0.391	0.353 – 0.430	0.972	E	25	0.395	0.339 – 0.451	0.942	E	×	
Herpestidae	12	0.339	0.150 – 0.770	0.321	0.206 – 0.436	0.862	B	11	0.367	0.248 – 0.486	0.891	B	×	
Eupleridae	5	0.325	0.129 – 0.819	0.318	0.191 – 0.445	0.976	B							
Viverridae	14	0.331	0.197 – 0.558	0.314	0.250 – 0.379	0.945	B	13	0.349	0.217 – 0.481	0.803	B	×	
<b>Locomotor type</b>														
arboreal	7	0.219	0.068 – 0.705	0.361	0.216 – 0.506	0.937	B	6	0.362	0.208 – 0.516	0.939	B	×	
semiarboreal	10	0.672	0.443 – 1.021	0.228	0.173 – 0.282	0.956	–	9	0.232	0.164 – 0.300	0.937	–	×	
scansorial	45	0.247	0.196 – 0.312	0.346	0.321 – 0.371	0.971	G	44	0.367	0.327 – 0.407	0.935	B	×	
terrestrial	49	0.248	0.195 – 0.343	0.358	0.320 – 0.387	0.959	B	48	0.342	0.299 – 0.385	0.903	B	×	
semifossorial	7	0.255	0.098 – 0.662	0.345	0.225 – 0.465	0.953	B	6	0.362	0.220 – 0.504	0.949	B	×	
semiaquatic	11	0.183	0.072 – 0.466	0.382	0.273 – 0.492	0.925	B	10	0.459	0.286 – 0.632	0.872	B	×	
aquatic	8	0.020	0.001 – 0.483	0.545	0.277 – 0.813	0.871	B	7	<i>0.544</i>	<i>0.136 – 0.952</i>	<i>0.700</i>	<i>B</i>	n.s.	

SR13 – d <sub>tr</sub>	traditional regression							PIC regression					
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>
<b>whole sample</b>	137	0.140	0.117 – 0.171	0.442	0.420 – 0.463	0.962	+	136	0.403	0.375 – 0.431	0.910	+	✓
<b>fissipeds</b>	130	0.160	0.136 – 0.198	0.425	0.400 – 0.444	0.953	+	129	0.389	0.361 – 0.417	0.914	E	✓
<b>Family</b>													
Canidae	17	0.134	0.081 – 0.348	0.465	0.364 – 0.519	0.947	E	16	0.478	0.388 – 0.570	0.938	+	×
Mustelidae	32	0.239	0.169 – 0.338	0.352	0.308 – 0.397	0.942	B	31	0.382	0.308 – 0.456	0.857	B	×
Procyonidae	7	0.320	0.077 – 1.335	0.355	0.178 – 0.531	0.901	B	6	0.347	0.163 – 0.531	0.904	B	×
Ursidae	7	0.301	0.038 – 2.387	0.357	0.181 – 0.534	0.903	B	6	0.317	0.167 – 0.467	0.925	B	×
Felidae	26	0.240	0.188 – 0.306	0.389	0.363 – 0.415	0.988	E	25	0.379	0.345 – 0.413	0.977	E	×
Herpestidae	12	0.336	0.112 – 1.002	0.318	0.165 – 0.472	0.729	B	11	0.310	0.158 – 0.462	0.728	B	×
Eupleridae	5	0.161	0.072 – 0.362	0.438	0.326 – 0.549	0.990	B						
Viverridae	14	0.253	0.116 – 0.552	0.360	0.263 – 0.456	0.904	B	13	0.420	0.265 – 0.575	0.816	B	×
<b>Locomotor type</b>													
arboreal	7	0.245	0.066 – 0.909	0.383	0.220 – 0.545	0.929	B	6	0.386	0.216 – 0.556	0.935	B	×
semiarboreal	10	0.213	0.090 – 0.502	0.397	0.286 – 0.509	0.939	B	9	0.366	0.253 – 0.479	0.929	B	×
scansorial	45	0.203	0.162 – 0.256	0.401	0.376 – 0.425	0.980	+	44	0.387	0.353 – 0.421	0.958	E	×
terrestrial	49	0.127	0.093 – 0.195	0.458	0.406 – 0.494	0.948	+	48	0.375	0.320 – 0.430	0.865	B	✓
semifossorial	7	0.209	0.051 – 0.860	0.376	0.157 – 0.554	0.911	B	6	0.401	0.182 – 0.620	0.898	B	×
semiaquatic	11	0.385	0.185 – 0.800	0.294	0.208 – 0.380	0.922	B	10	0.320	0.228 – 0.412	0.928	B	×
aquatic	8	0.031	0.003 – 0.277	0.581	0.398 – 0.764	0.949	+	7	0.500	0.264 – 0.736	0.893	B	×

SR14 – P	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
whole sample	137	0.101	0.085 – 0.122	0.426	0.404 – 0.446	0.956	+	136	0.412	0.380 – 0.444	0.892	+	×	
fissipeds	130	0.088	0.074 – 0.108	0.444	0.421 – 0.464	0.952	+	129	0.414	0.381 – 0.447	0.888	+	×	
<b>Family</b>														
Canidae	17	0.046	0.016 – 0.095	0.514	0.428 – 0.624	0.960	+	16	0.488	0.396 – 0.580	0.940	+	×	
Mustelidae	32	0.161	0.110 – 0.236	0.350	0.302 – 0.399	0.929	G	31	0.347	0.276 – 0.418	0.838	G	×	
Procyonidae	7	0.186	0.028 – 1.241	0.352	0.117 – 0.587	0.814	B	<i>6</i>	<i>0.325</i>	<i>0.095 – 0.555</i>	<i>0.820</i>	<i>B</i>	n.s.	
Ursidae	7	0.147	0.016 – 1.360	0.399	0.210 – 0.589	0.911	B	6	0.357	0.159 – 0.555	0.894	B	×	
Felidae	26	0.182	0.131 – 0.253	0.380	0.345 – 0.415	0.976	+	25	0.369	0.325 – 0.413	0.959	G	×	
Herpestidae	12	0.164	0.075 – 0.361	0.374	0.264 – 0.484	0.908	G	11	0.353	0.241 – 0.465	0.897	B	×	
Eupleridae	5	0.027	0.001 – 1.001	0.611	0.113 – 1.108	0.896	B							
Viverridae	14	0.096	0.029 – 0.321	0.424	0.275 – 0.574	0.828	G	13	0.483	0.292 – 0.674	0.783	G	×	
<b>Locomotor type</b>														
arboreal	7	0.026	0.001 – 0.455	0.588	0.233 – 0.943	0.851	B	<i>6</i>	<i>0.589</i>	<i>0.211 – 0.967</i>	<i>0.935</i>	<i>B</i>	n.s.	
semiarboreal	10	0.063	0.022 – 0.180	0.496	0.360 – 0.633	0.941	+	9	0.475	0.274 – 0.676	0.929	G	×	
scansorial	45	0.089	0.066 – 0.119	0.448	0.416 – 0.480	0.972	+	44	0.421	0.373 – 0.469	0.958	+	×	
terrestrial	49	0.092	0.070 – 0.130	0.442	0.400 – 0.475	0.956	+	48	0.294	0.255 – 0.333	0.865	G	✓	
semifossorial	7	0.280	0.110 – 0.709	0.292	0.175 – 0.409	0.937	B	6	0.313	0.178 – 0.448	0.898	B	×	
semiaquatic	11	0.117	0.028 – 0.478	0.386	0.220 – 0.551	0.823	B	<i>10</i>	<i>0.330</i>	<i>0.100 – 0.560</i>	<i>0.928</i>	<i>B</i>	n.s.	
aquatic	8	0.037	0.004 – 0.354	0.487	0.298 – 0.676	0.922	G	7	0.481	0.277 – 0.685	0.893	G	×	



SR15 – RR	traditional regression							PIC regression					
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>
whole sample	137	0.250	0.209 – 4.676	-0.158	-0.496 – -0.135	0.021	–	136	0.200	0.169 – 0.231	0.409	+	n.s.
fissipeds	130	0.258	0.196 – 0.322	-0.169	-0.196 – -0.134	0.214	–	129	0.198	0.167 – 0.229	0.422	+	✓
<b>Family</b>													
Canidae	17	0.005	$1.27 \cdot 10^{-5}$ – 0.025	0.260	0.080 – 0.915	0.141	<i>E</i>	16	-0.324	-0.499 – -0.149	0.223	–	n.s.
Mustelidae	32	0.028	0.003 – 0.039	0.139	0.097 – 0.432	0.080	<i>E</i>	31	0.161	0.101 – 0.221	0.062	<i>E</i>	n.s.
Procyonidae	7	0.121	0.033 – 0.375	-0.081	-0.224 – 0.070	0.585	<i>B</i>	6	-0.088	-0.180 – 0.004	0.542	<i>B</i>	n.s.
Ursidae	7	0.008	$1.43 \cdot 10^{-5}$ – 0.055	0.169	0.002 – 0.712	0.082	<i>E</i>	6	0.168	-0.038 – 0.374	0.142	<i>B</i>	n.s.
Felidae	26	0.011	0.008 – 0.017	0.155	0.112 – 0.189	0.709	<i>E</i>	25	0.165	0.103 – 0.227	0.458	<i>E</i>	×
Herpestidae	12	0.449	0.155 – 46.774	-0.259	-0.922 – -0.116	0.177	–	11	0.243	0.070 – 0.416	0.096	<i>E</i>	n.s.
Eupleridae	5	0.028	0.005 – 0.107	0.093	-0.113 – 0.348	0.735	<i>B</i>						
Viverridae	14	0.026	0.019 – 0.046	0.108	0.038 – 0.147	0.543	<i>E</i>	13	0.108	0.045 – 0.171	0.396	<i>E</i>	n.s.
<b>Locomotor type</b>													
arboreal	7	0.009	$5.40 \cdot 10^{-7}$ – 0.029	0.237	0.106 – 1.454	0.047	<i>E</i>	6	-0.190	-0.425 – 0.045	0.030	<i>B</i>	n.s.
semiarboreal	10	0.124	0.085 – 0.691	-0.095	-0.326 – -0.051	0.263	–	9	0.106	0.018 – 0.194	0.115	<i>E</i>	n.s.
scansorial	45	0.016	0.011 – 0.023	0.129	0.093 – 0.171	0.242	<i>E</i>	44	0.142	0.099 – 0.185	0.189	<i>E</i>	n.s.
terrestrial	49	0.247	0.163 – 0.328	-0.164	-0.201 – -0.110	0.528	–	48	-0.165	-0.214 – -0.116	0.073	–	n.s.
semifossorial	7	0.033	0.004 – 0.067	0.104	0.002 – 0.361	0.193	<i>E</i>	6	0.120	-0.029 – 0.269	0.064	<i>B</i>	n.s.
semiaquatic	11	0.010	0.003 – 0.079	0.252	0.027 – 0.387	0.547	<i>E</i>	10	0.248	0.131 – 0.365	0.789	+	n.s.
aquatic	8	0.004	$3.55 \cdot 10^{-6}$ – 0.205	0.260	-0.061 – 0.832	0.613	<i>B</i>	7	0.266	0.239 – 0.293	0.276	+	n.s.

SR16 – L <sub>u</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	136	3.841	3.046 – 4.922	0.358	0.327 – 0.385	0.897	G	135	0.347	0.321 – 0.373	0.897	G	×	
<b>fissipeds</b>	129	2.926	2.411 – 3.644	0.394	0.367 – 0.418	0.916	+	128	0.340	0.314 – 0.366	0.902	G	✓	
<b>Family</b>														
Canidae	16	2.170	0.856 – 12.076	0.452	0.258 – 0.556	0.884	G	15	0.474	0.326 – 0.622	0.841	G	×	
Mustelidae	32	4.037	2.665 – 6.115	0.322	0.269 – 0.375	0.898	G	31	0.315	0.263 – 0.367	0.896	G	×	
Procyonidae	7	5.692	1.569 – 20.645	0.318	0.159 – 0.478	0.900	B	6	0.293	0.174 – 0.412	0.945	B	×	
Ursidae	7	10.831	6.606 – 17.759	0.262	0.220 – 0.304	0.990	E	6	0.263	0.216 – 0.310	0.990	E	×	
Felidae	26	9.200	6.415 – 13.195	0.286	0.248 – 0.324	0.948	E	25	0.317	0.267 – 0.367	0.928	G	×	
Herpestidae	12	3.710	1.629 – 8.452	0.363	0.247 – 0.478	0.892	B	11	0.334	0.230 – 0.438	0.900	B	×	
Eupleridae	5	8.643	2.236 – 33.406	0.270	0.083 – 0.456	0.927	B							
Viverridae	14	8.785	5.053 – 15.275	0.260	0.191 – 0.328	0.908	E	13	0.291	0.147 – 0.435	0.631	B	×	
<b>Locomotor type</b>														
arboreal	7	3.573	0.863 – 14.800	0.371	0.195 – 0.547	0.911	B	6	0.377	0.190 – 0.564	0.917	B	×	
semiarboreal	10	9.563	6.305 – 14.505	0.257	0.203 – 0.311	0.966	E	9	0.227	0.130 – 0.324	0.860	E	×	
scansorial	45	6.234	4.849 – 8.013	0.319	0.292 – 0.346	0.961	G	44	0.332	0.299 – 0.365	0.945	G	×	
terrestrial	48	1.893	1.332 – 3.071	0.451	0.392 – 0.497	0.944	+	47	0.358	0.309 – 0.407	0.888	G	✓	
semifossorial	7	3.904	1.139 – 13.375	0.333	0.178 – 0.488	0.914	B	6	0.349	0.180 – 0.518	0.921	B	×	
semiaquatic	11	5.026	1.558 – 16.210	0.290	0.153 – 0.427	0.779	B	10	0.240	0.145 – 0.335	0.856	B	×	
aquatic	8	4.077	0.572 – 29.063	0.303	0.139 – 0.468	0.840	B	7	0.298	0.123 – 0.473	0.830	B	×	

SR17 – d <sub>su</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	136	0.263	0.223 – 0.320	0.369	0.348 – 0.387	0.948	E	135	0.365	0.336 – 0.394	0.886	E	×	
<b>fissipeds</b>	129	0.257	0.216 – 0.312	0.372	0.350 – 0.392	0.936	E	128	0.364	0.334 – 0.394	0.885	E	×	
<b>Family</b>														
Canidae	16	0.057	0.018 – 0.291	0.505	0.325 – 0.626	0.915	B	15	0.433	0.308 – 0.558	0.865	B	×	
Mustelidae	32	0.320	0.231 – 0.442	0.345	0.304 – 0.386	0.947	B	31	0.353	0.289 – 0.417	0.873	B	×	
Procyonidae	7	0.167	0.011 – 2.592	0.457	0.117 – 0.796	0.763	B	6	<i>0.456</i>	<i>0.075 – 0.837</i>	<i>0.741</i>	<i>B</i>	n.s.	
Ursidae	7	<i>1.015</i>	<i>0.098 – 10.539</i>	<i>0.258</i>	<i>0.059 – 0.457</i>	<i>0.741</i>	<i>B</i>	6	<i>0.246</i>	<i>0.040 – 0.452</i>	<i>0.738</i>	<i>B</i>	n.s.	
Felidae	26	0.309	0.210 – 0.455	0.358	0.317 – 0.399	0.963	B	25	0.349	0.294 – 0.404	0.928	B	×	
Herpestidae	12	0.265	0.101 – 0.697	0.363	0.228 – 0.499	0.848	B	11	0.357	0.215 – 0.499	0.831	B	×	
Eupleridae	5	0.184	0.056 – 0.603	0.423	0.259 – 0.586	0.978	B							
Viverridae	14	0.374	0.142 – 0.985	0.330	0.210 – 0.450	0.815	B	13	<i>0.365</i>	<i>0.168 – 0.562</i>	<i>0.527</i>	<i>B</i>	n.s.	
<b>Locomotor type</b>														
arboreal	7	0.192	0.048 – 0.770	0.427	0.254 – 0.599	0.936	B	6	0.435	0.242 – 0.628	0.934	B	×	
semiarboreal	10	0.555	0.320 – 0.964	0.295	0.223 – 0.367	0.954	G	9	0.275	0.173 – 0.377	0.896	B	×	
scansorial	45	0.266	0.198 – 0.357	0.376	0.344 – 0.408	0.961	E	44	0.366	0.315 – 0.417	0.891	B	×	
terrestrial	48	0.298	0.226 – 0.407	0.338	0.304 – 0.372	0.931	G	47	0.359	0.304 – 0.414	0.857	B	×	
semifossorial	7	0.258	0.127 – 0.524	0.379	0.290 – 0.468	0.979	B	6	0.382	0.266 – 0.498	0.970	B	×	
semiaquatic	11	0.319	0.166 – 0.614	0.344	0.267 – 0.420	0.955	B	10	0.345	0.236 – 0.454	0.912	B	×	
aquatic	8	0.115	0.007 – 1.916	0.434	0.198 – 0.670	0.839	B	7	<i>0.462</i>	<i>0.143 – 0.781</i>	<i>0.753</i>	<i>B</i>	n.s.	

SR18 – d <sub>tu</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	136	0.199	0.169 – 0.238	0.370	0.351 – 0.389	0.958	E	135	0.374	0.346 – 0.402	0.897	E	×	
<b>fissipeds</b>	129	0.182	0.152 – 0.215	0.382	0.363 – 0.403	0.951	E	128	0.482	0.427 – 0.537	0.760	+	✓	
<b>Family</b>														
Canidae	16	0.150	0.055 – 0.518	0.410	0.274 – 0.518	0.904	B	15	0.411	0.290 – 0.532	0.861	B	×	
Mustelidae	32	0.247	0.166 – 0.367	0.334	0.283 – 0.384	0.914	B	31	0.368	0.294 – 0.442	0.844	B	×	
Procyonidae	7	0.435	0.122 – 1.557	0.270	0.112 – 0.427	0.861	B	6	<i>0.281</i>	<i>0.090 – 0.472</i>	<i>0.837</i>	<i>B</i>	n.s.	
Ursidae	7	0.173	0.010 – 3.127	0.395	0.148 – 0.641	0.839	B	6	<i>0.409</i>	<i>0.138 – 0.680</i>	<i>0.845</i>	<i>B</i>	n.s.	
Felidae	26	0.119	0.068 – 0.208	0.419	0.360 – 0.479	0.942	E	25	0.388	0.314 – 0.462	0.892	B	×	
Herpestidae	12	0.233	0.096 – 0.569	0.370	0.245 – 0.495	0.877	B	11	0.367	0.246 – 0.488	0.887	B	×	
Eupleridae	5	0.225	0.154 – 0.328	0.363	0.310 – 0.415	0.997	B							
Viverridae	14	0.323	0.166 – 0.629	0.320	0.237 – 0.402	0.912	B	13	0.282	0.152 – 0.412	0.689	B	×	
<b>Locomotor type</b>														
arboreal	7	0.250	0.068 – 0.914	0.342	0.181 – 0.502	0.913	B	6	0.222	0.219 – 0.225	1.000	–	×	
semiarboreal	10	0.353	0.194 – 0.644	0.310	0.232 – 0.388	0.951	B	9	0.287	0.182 – 0.392	0.900	B	×	
scansorial	45	0.139	0.101 – 0.191	0.408	0.374 – 0.442	0.961	E	44	0.409	0.352 – 0.466	0.893	E	×	
terrestrial	48	0.186	0.148 – 0.242	0.386	0.357 – 0.412	0.964	E	47	0.375	0.329 – 0.421	0.909	B	×	
semifossorial	7	0.106	0.053 – 0.524	0.374	0.230 – 0.518	0.942	B	6	0.377	0.225 – 0.529	0.945	B	×	
semiaquatic	11	0.325	0.105 – 1.007	0.307	0.174 – 0.439	0.820	B	10	0.480	0.213 – 0.747	0.691	B	×	
aquatic	8	0.033	0.006 – 0.181	0.503	0.361 – 0.645	0.959	E	7	0.479	0.336 – 0.622	0.959	E	×	

SR19 – O	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
whole sample	136	0.721	0.633 – 0.831	0.368	0.351 – 0.384	0.976	+	135	0.369	0.349 – 0.389	0.950	+	×	
fissipeds	129	0.674	0.588 – 0.779	0.377	0.359 – 0.393	0.974	+	128	0.370	0.350 – 0.390	0.949	+	×	
<b>Family</b>														
Canidae	16	0.425	0.263 – 0.902	0.436	0.352 – 0.488	0.959	+	15	0.378	0.298 – 0.458	0.930	G	×	
Mustelidae	32	0.641	0.486 – 0.846	0.372	0.337 – 0.407	0.967	+	31	0.369	0.323 – 0.415	0.942	G	×	
Procyonidae	7	0.543	0.068 – 4.328	0.400	0.143 – 0.657	0.829	B	6	<b>0.409</b>	<b>0.077 – 0.741</b>	<b>0.756</b>	<b>B</b>	n.s.	
Ursidae	7	1.978	0.319 – 12.275	0.269	0.113 – 0.424	0.864	B	6	<b>0.276</b>	<b>0.097 – 0.455</b>	<b>0.853</b>	<b>B</b>	n.s.	
Felidae	26	0.776	0.615 – 0.977	0.370	0.345 – 0.394	0.987	+	25	0.362	0.327 – 0.397	0.974	G	×	
Herpestidae	12	0.962	0.588 – 1.573	0.334	0.265 – 0.403	0.956	G	11	0.347	0.288 – 0.406	0.971	G	×	
Eupleridae	5	0.612	0.229 – 1.632	0.402	0.267 – 0.537	0.983	G							
Viverridae	14	0.626	0.350 – 1.122	0.384	0.312 – 0.456	0.954	G	13	0.405	0.323 – 0.487	0.948	G	×	
<b>Locomotor type</b>														
arboreal	7	0.402	0.093 – 1.735	0.440	0.259 – 0.621	0.934	B	6	0.377	0.376 – 0.378	1.000	+	×	
semiarboreal	10	0.560	0.311 – 1.008	0.401	0.325 – 0.478	0.972	G	9	0.378	0.245 – 0.511	0.906	B	×	
scansorial	45	0.789	0.633 – 0.983	0.360	0.337 – 0.384	0.976	+	44	0.358	0.323 – 0.393	0.948	G	×	
terrestrial	48	0.605	0.494 – 0.789	0.391	0.358 – 0.417	0.975	+	47	0.359	0.327 – 0.391	0.953	G	×	
semifossorial	7	0.596	0.316 – 1.124	0.400	0.320 – 0.480	0.985	G	6	0.423	0.289 – 0.557	0.967	G	×	
semiaquatic	11	0.640	0.281 – 1.459	0.375	0.278 – 0.471	0.940	G	10	0.419	0.295 – 0.543	0.923	G	×	
aquatic	8	0.186	0.012 – 2.791	0.469	0.242 – 0.696	0.875	B	7	0.458	0.284 – 0.632	0.932	G	×	

SR20 – $\theta$	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	136	0.078	0.008 – 0.090	$9.70 \cdot 10^{-7}$	$4.60 \cdot 10^{-7} - 3.56 \cdot 10^{-7}$	0.048	–	135	$2.44 \cdot 10^{-6}$	$2.02 \cdot 10^{-6} - 2.86 \cdot 10^{-6}$	0.047	–	n.s.	
<b>fissipeds</b>	129	0.132	0.115 – 0.148	$-1.52 \cdot 10^{-6}$	$-2.06 \cdot 10^{-6} - -9.73 \cdot 10^{-10}$	0.100	–	128	$2.58 \cdot 10^{-6}$	$2.13 \cdot 10^{-6} - 3.03 \cdot 10^{-6}$	0.018	–	n.s.	
<b>Family</b>														
Canidae	16	0.019	-0.059 – 0.042	$3.63 \cdot 10^{-6}$	$5.98 \cdot 10^{-7} - 1.22 \cdot 10^{-5}$	0.447	–	15	$3.63 \cdot 10^{-6}$	$1.99 \cdot 10^{-6} - 5.27 \cdot 10^{-6}$	0.623	–	n.s.	
Mustelidae	32	0.110	-0.041 – 0.141	$1.17 \cdot 10^{-5}$	$-1.51 \cdot 10^{-7} - 3.71 \cdot 10^{-5}$	0.064	–	31	$-2.93 \cdot 10^{-5}$	$-4.02 \cdot 10^{-5} - -1.84 \cdot 10^{-5}$	0.081	–	n.s.	
Procyonidae	7	0.025	-0.047 – 0.096	$1.95 \cdot 10^{-5}$	$7.02 \cdot 10^{-6} - 3.15 \cdot 10^{-5}$	0.689	–	6	$2.08 \cdot 10^{-5}$	$-2.00 \cdot 10^{-8} - 4.16 \cdot 10^{-5}$	0.594	–	n.s.	
Ursidae	7	0.033	-0.020 – 0.085	$2.52 \cdot 10^{-7}$	$-2.84 \cdot 10^{-7} - 1.63 \cdot 10^{-6}$	0.241	–	6	$2.71 \cdot 10^{-7}$	$-6.21 \cdot 10^{-8} - 6.04 \cdot 10^{-7}$	0.154	–	n.s.	
Felidae	26	0.059	-0.022 – 0.082	$1.12 \cdot 10^{-6}$	$-4.11 \cdot 10^{-7} - 4.92 \cdot 10^{-6}$	0.073	–	25	$-1.43 \cdot 10^{-6}$	$-2.03 \cdot 10^{-6} - -8.26 \cdot 10^{-7}$	0.006	–	n.s.	
Herpestidae	12	0.027	-0.020 – 0.071	$4.82 \cdot 10^{-5}$	$6.09 \cdot 10^{-6} - 6.51 \cdot 10^{-5}$	0.588	–	11	$5.04 \cdot 10^{-5}$	$1.92 \cdot 10^{-5} - 8.16 \cdot 10^{-5}$	0.497	–	n.s.	
Eupleridae	5	0.085	0.018 – 0.152	$2.40 \cdot 10^{-5}$	$1.85 \cdot 10^{-4} - 1.28 \cdot 10^{-4}$	0.866	–							
Viverridae	14	0.113	0.090 – 0.179	$-7.14 \cdot 10^{-6}$	$-2.80 \cdot 10^{-5} - -3.26 \cdot 10^{-6}$	0.428	–	13	$-5.48 \cdot 10^{-5}$	$-8.94 \cdot 10^{-5} - -2.02 \cdot 10^{-5}$	0.134	–	n.s.	
<b>Locomotor type</b>														
arboreal	7	0.095	0.004 – 0.260	$-7.49 \cdot 10^{-6}$	$-6.38 \cdot 10^{-5} - 2.51 \cdot 10^{-5}$	0.462	–	6	$-7.17 \cdot 10^{-6}$	$-7.76 \cdot 10^{-6} - -6.58 \cdot 10^{-6}$	0.998	–	n.s.	
semiarboreal	10	0.202	0.108 – 0.378	$-2.22 \cdot 10^{-5}$	$-9.98 \cdot 10^{-5} - 3.73 \cdot 10^{-5}$	0.168	–	9	$-1.74 \cdot 10^{-5}$	$-3.18 \cdot 10^{-5} - -3.00 \cdot 10^{-6}$	0.131	–	n.s.	
scansorial	45	0.135	0.112 – 0.196	$-1.04 \cdot 10^{-6}$	$-2.87 \cdot 10^{-6} - -2.12 \cdot 10^{-7}$	0.180	–	44	$-1.33 \cdot 10^{-6}$	$-1.74 \cdot 10^{-6} - -9.20 \cdot 10^{-7}$	0.038	–	n.s.	
terrestrial	48	0.111	0.060 – 0.167	$-1.45 \cdot 10^{-6}$	$-3.93 \cdot 10^{-6} - 6.65 \cdot 10^{-6}$	0.052	–	47	$1.50 \cdot 10^{-5}$	$-2.87 \cdot 10^{-5} - 5.87 \cdot 10^{-5}$	0.193	–	n.s.	
semifossorial	7	0.047	-0.013 – 0.088	$1.75 \cdot 10^{-5}$	$1.11 \cdot 10^{-5} - 2.56 \cdot 10^{-5}$	0.885	–	6	$1.68 \cdot 10^{-5}$	$3.50 \cdot 10^{-6} - 3.01 \cdot 10^{-5}$	0.772	–	n.s.	
semiaquatic	11	0.106	-0.064 – 0.160	$8.20 \cdot 10^{-6}$	$-4.47 \cdot 10^{-6} - 3.40 \cdot 10^{-5}$	0.070	–	10	$-1.63 \cdot 10^{-5}$	$-2.82 \cdot 10^{-5} - -4.45 \cdot 10^{-6}$	0.315	–	n.s.	
aquatic	8	0.035	-0.318 – 0.215	$5.07 \cdot 10^{-7}$	$-7.40 \cdot 10^{-7} - 2.50 \cdot 10^{-6}$	0.314	–	7	$5.75 \cdot 10^{-7}$	$1.28 \cdot 10^{-7} - 1.02 \cdot 10^{-6}$	0.673	–	n.s.	

SR21 – $\alpha$	traditional regression							PIC regression					
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>
<b>whole sample</b>	136	0.020	0.012 – 0.035	0.314	0.253 – 0.366	0.589	G	135	0.388	0.329 – 0.447	0.451	G	✓
<b>fissipeds</b>	129	0.017	0.010 – 0.033	0.334	0.257 – 0.395	0.535	G	128	0.398	0.336 – 0.460	0.450	+	✓
<b>Family</b>													
Canidae	16	0.033	0.009 – 0.284	0.301	0.060 – 0.450	0.523	B	15	0.323	0.150 – 0.496	0.376	B	n.s.
Mustelidae	32	0.023	0.009 – 0.059	0.333	0.211 – 0.455	0.180	B	31	0.417	0.265 – 0.569	0.214	G	n.s.
Procyonidae	7	0.002	0.000 – 0.041	0.597	0.190 – 1.003	0.806	B	6	0.547	0.131 – 0.963	0.791	B	n.s.
Ursidae	7	0.005	0.000 – 0.974	0.385	-0.058 – 0.828	0.003	B	6	0.393	-0.095 – 0.881	0.022	B	n.s.
Felidae	26	0.016	0.008 – 0.031	0.309	0.235 – 0.383	0.822	B	25	0.369	0.269 – 0.469	0.766	G	×
Herpestidae	12	0.008	0.001 – 0.061	0.476	0.186 – 0.766	0.500	B	11	0.444	0.169 – 0.719	0.499	B	n.s.
Eupleridae	5	0.019	0.001 – 0.470	0.346	-0.095 – 0.788	0.720	B						
Viverridae	14	0.003	0.000 – 0.025	0.490	0.241 – 0.739	0.588	B	13	0.484	0.188 – 0.780	0.266	B	n.s.
<b>Locomotor type</b>													
arboreal	7	0.003	0.000 – 0.222	0.475	-0.062 – 1.012	0.178	B	6	0.475	-0.108 – 1.058	0.148	B	n.s.
semiarboreal	10	0.005	0.000 – 0.079	0.474	0.124 – 0.824	0.422	B	9	0.429	0.100 – 0.758	0.395	B	n.s.
scansorial	45	0.024	0.016 – 0.038	0.268	0.221 – 0.314	0.822	E	44	0.326	0.252 – 0.400	0.674	G	×
terrestrial	48	0.023	0.007 – 0.104	0.334	0.157 – 0.470	0.556	B	47	0.404	0.289 – 0.519	0.281	G	n.s.
semifossorial	7	0.010	0.000 – 0.332	0.405	-0.032 – 0.842	0.347	B	6	0.397	-0.088 – 0.882	0.185	B	n.s.
semiaquatic	11	0.013	0.002 – 0.100	0.363	0.128 – 0.599	0.513	B	10	0.468	0.141 – 0.795	0.414	B	n.s.
aquatic	8	0.002	0.000 – 0.506	0.497	0.011 – 0.984	0.203	B	7	0.437	-0.022 – 0.896	0.000	B	n.s.

SR22 – UR	traditional regression							PIC regression					
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>
<b>whole sample</b>	136	0.014	$4.28 \cdot 10^{-4} - 0.019$	0.198	0.166 – 0.605	0.141	+	135	0.188	0.156 – 0.220	0.142	+	n.s.
<b>fissipeds</b>	129	0.408	0.300 – 15.740	-0.389	-0.634 – -0.166	0.067	-	128	0.188	0.155 – 0.221	0.083	+	n.s.
<b>Family</b>													
Canidae	16	0.003	$3.17 \cdot 10^{-6} - 0.019$	0.302	0.077 – 1.045	0.212	<i>E</i>	15	-0.380	-0.597 – -0.163	0.167	-	n.s.
Mustelidae	32	0.032	0.004 – 0.052	0.139	0.084 – 0.407	0.272	<i>E</i>	31	0.143	0.090 – 0.196	0.175	<i>E</i>	n.s.
Procyonidae	7	0.005	$1.06 \cdot 10^{-8} - 0.026$	0.358	0.159 – 1.907	0.199	+	6	0.340	-0.074 – 0.754	0.201	<i>B</i>	n.s.
Ursidae	7	0.742	0.051 – 273.527	-0.181	-0.688 – 0.062	0.397	<i>G</i>	6	-0.179	-0.377 – 0.019	0.457	<i>B</i>	n.s.
Felidae	26	0.015	0.009 – 0.024	0.162	0.108 – 0.216	0.458	<i>E</i>	25	0.198	0.115 – 0.281	0.154	<i>E</i>	n.s.
Herpestidae	12	0.403	0.123 – 41.976	-0.243	-0.889 – -0.073	0.067	-	11	-0.234	-0.401 – -0.067	0.043	-	n.s.
Eupleridae	5	0.012	$4.22 \cdot 10^{-5} - 0.055$	0.238	-0.008 – 1.038	0.693	<i>B</i>						
Viverridae	14	0.024	0.002 – 0.043	0.143	0.068 – 0.484	0.229	<i>E</i>	13	0.130	0.054 – 0.206	0.405	<i>E</i>	n.s.
<b>Locomotor type</b>													
arboreal	7	0.018	$1.75 \cdot 10^{-5} - 0.037$	0.194	0.110 – 1.069	0.319	<i>E</i>	6	0.179	0.157 – 0.201	0.995	+	n.s.
semiarboreal	10	0.034	0.003 – 0.052	0.109	0.044 – 0.418	0.312	<i>E</i>	9	0.106	0.033 – 0.179	0.578	<i>E</i>	n.s.
scansorial	45	0.018	0.013 – 0.027	0.149	0.105 – 0.186	0.361	<i>E</i>	44	0.280	0.194 – 0.366	0.082	+	n.s.
terrestrial	48	0.416	0.232 – 0.623	-0.233	-0.289 – -0.156	0.477	-	47	-0.189	-0.245 – -0.133	0.050	-	n.s.
semifossorial	7	0.028	0.003 – 0.066	0.156	0.053 – 0.433	0.431	<i>E</i>	6	0.132	-0.029 – 0.293	0.175	<i>B</i>	n.s.
semiaquatic	11	0.019	0.006 – 0.098	0.199	0.014 – 0.317	0.516	<i>E</i>	10	0.113	0.056 – 0.170	0.754	<i>E</i>	n.s.
aquatic	8	0.013	$2.70 \cdot 10^{-5} - 0.313$	0.197	-0.076 – 0.700	0.552	<i>B</i>	7	0.233	0.011 – 0.455	0.424	<i>E</i>	n.s.



SR23 – IFA	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
<b>whole sample</b>	136	0.062	0.053 – 0.075	0.138	0.117 – 0.156	0.275	+	135	0.161	0.135 – 0.187	0.332	+	×	
<b>fissipeds</b>	<i>129</i>	<i>0.064</i>	<i>0.006 – 0.079</i>	<i>0.134</i>	<i>0.109 – 0.418</i>	<i>0.041</i>	+	128	0.161	0.134 – 0.188	0.278	+	n.s.	
<b>Family</b>														
Canidae	16	0.020	$5.22 \cdot 10^{-5} - 0.040$	0.239	0.149 – 0.893	0.079	+	15	-0.285	-0.449 – -0.121	0.072	–	n.s.	
Mustelidae	32	0.070	0.049 – 0.109	0.155	0.103 – 0.198	0.456	+	31	0.149	0.099 – 0.199	0.441	+	×	
Procyonidae	7	0.025	$3.36 \cdot 10^{-6} - 0.374$	0.249	-0.064 – 1.310	0.216	<i>B</i>	6	0.249	-0.054 – 0.552	0.197	<i>B</i>	n.s.	
Ursidae	7	1.246	0.007 – 119.95	-0.157	-0.540 – 0.292	0.180	<i>B</i>	6	0.434	0.008 – 0.860	0.614	+	n.s.	
Felidae	26	0.055	0.043 – 0.073	0.130	0.099 – 0.154	0.726	+	25	0.127	0.080 – 0.174	0.463	+	×	
Herpestidae	12	0.838	0.566 – 35.400	-0.194	-0.724 – -0.138	0.021	–	11	0.177	0.053 – 0.301	0.209	+	n.s.	
Eupleridae	5	0.059	0.011 – 0.212	0.158	-0.038 – 0.400	0.919	<i>B</i>							
Viverridae	14	0.046	0.026 – 0.089	0.179	0.088 – 0.251	0.731	+	13	0.180	0.085 – 0.275	0.565	+	×	
<b>Locomotor type</b>														
arboreal	7	0.037	$3.77 \cdot 10^{-5} - 0.264$	0.206	-0.052 – 1.067	0.350	<i>B</i>	6	-0.056	-0.066 – -0.046	0.990	–	n.s.	
semiarboreal	10	0.049	0.030 – 0.091	0.168	0.080 – 0.231	0.849	+	9	0.184	0.092 – 0.276	0.802	+	×	
scansorial	45	0.078	0.066 – 0.097	0.094	0.072 – 0.113	0.479	+	44	0.183	0.128 – 0.238	0.241	+	n.s.	
terrestrial	48	0.535	0.379 – 0.686	-0.123	-0.155 – -0.079	0.355	–	47	0.155	0.109 – 0.201	0.156	+	n.s.	
semifossorial	7	0.074	0.015 – 0.170	0.158	0.052 – 0.358	0.562	+	6	0.161	-0.016 – 0.338	0.471	<i>B</i>	n.s.	
semiaquatic	11	0.053	0.024 – 0.213	0.189	0.034 – 0.275	0.673	+	10	0.249	0.114 – 0.384	0.707	+	×	
aquatic	8	0.027	$1.72 \cdot 10^{-4} - 0.062$	0.210	0.134 – 0.622	0.737	+	7	0.207	0.073 – 0.341	0.785	+	×	

SR24 – L <sub>m</sub>	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
<b>whole sample</b>	136	1.498	1.174 – 1.972	0.351	0.315 – 0.380	0.873	G	135	0.347	0.319 – 0.375	0.885	G	×	
<b>fissipeds</b>	129	1.171	0.907 – 1.567	0.383	0.347 – 0.415	0.884	+	128	0.348	0.320 – 0.376	0.887	G	×	
<b>Family</b>														
Canidae	16	0.915	0.440 – 4.034	0.449	0.285 – 0.532	0.926	G	15	0.458	0.344 – 0.572	0.902	+	×	
Mustelidae	32	2.017	1.281 – 3.176	0.294	0.236 – 0.352	0.849	B	31	0.299	0.240 – 0.358	0.847	B	×	
Procyonidae	7	2.983	0.809 – 10.995	0.251	0.089 – 0.412	0.828	B	6	0.225	0.095 – 0.355	0.883	B	×	
Ursidae	7	0.998	0.156 – 6.389	0.351	0.193 – 0.509	0.920	B	6	0.345	0.178 – 0.512	0.921	B	×	
Felidae	26	2.709	1.964 – 3.738	0.310	0.275 – 0.344	0.965	G	25	0.336	0.292 – 0.380	0.951	G	×	
Herpestidae	12	1.369	0.721 – 2.599	0.373	0.283 – 0.463	0.940	G	11	0.354	0.263 – 0.445	0.934	G	×	
Eupleridae	5	4.309	1.684 – 11.025	0.217	0.088 – 0.346	0.946	B							
Viverridae	14	1.429	0.695 – 2.939	0.343	0.254 – 0.433	0.911	G	13	0.336	0.212 – 0.460	0.815	B	×	
<b>Locomotor type</b>														
arboreal	7	<i>1.114</i>	<i>0.093 – 13.348</i>	<i>0.369</i>	<i>0.062 – 0.677</i>	<i>0.689</i>	<i>B</i>	6	<i>0.379</i>	<i>0.049 – 0.709</i>	<i>0.714</i>	<i>B</i>	n.s.	
semiarboreal	10	2.040	0.656 – 6.344	0.315	0.167 – 0.462	0.818	B	9	0.276	0.146 – 0.406	0.826	B	×	
scansorial	45	2.240	1.535 – 3.268	0.314	0.273 – 0.354	0.905	G	44	0.318	0.282 – 0.354	0.929	G	×	
terrestrial	48	0.788	0.507 – 1.360	0.497	0.377 – 0.505	0.934	+	47	0.355	0.310 – 0.400	0.904	G	✓	
semifossorial	7	1.646	0.455 – 5.947	0.301	0.140 – 0.463	0.884	B	6	0.307	0.143 – 0.471	0.903	B	×	
semiaquatic	11	2.832	1.128 – 7.113	0.257	0.149 – 0.365	0.831	B	10	0.281	0.166 – 0.396	0.847	B	×	
aquatic	8	0.153	0.029 – 0.813	0.491	0.352 – 0.631	0.959	+	7	0.471	0.286 – 0.656	0.927	G	×	

SR25 – d <sub>sm</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	136	0.192	0.167 – 0.225	0.337	0.320 – 0.352	0.963	G	135	0.337	0.313 – 0.361	0.907	G	×	
<b>fissipeds</b>	129	0.178	0.153 – 0.214	0.346	0.326 – 0.363	0.957	G	128	0.335	0.310 – 0.360	0.909	G	×	
<b>Family</b>														
Canidae	16	0.051	0.021 – 0.126	0.492	0.385 – 0.588	0.939	+	15	0.433	0.335 – 0.531	0.920	E	×	
Mustelidae	32	0.212	0.152 – 0.294	0.320	0.278 – 0.362	0.937	G	31	0.311	0.259 – 0.363	0.894	G	×	
Procyonidae	7	0.183	0.025 – 1.354	0.336	0.088 – 0.583	0.767	B	6	<b>0.316</b>	<b>0.057 – 0.575</b>	<b>0.751</b>	<b>B</b>	n.s.	
Ursidae	7	0.884	0.307 – 2.549	0.197	0.107 – 0.287	0.918	–	6	0.176	0.086 – 0.266	0.912	–	×	
Felidae	26	0.209	0.171 – 0.257	0.336	0.314 – 0.358	0.988	G	25	0.323	0.291 – 0.355	0.971	G	×	
Herpestidae	12	0.328	0.174 – 0.618	0.281	0.192 – 0.370	0.893	G	11	0.281	0.193 – 0.369	0.898	G	×	
Eupleridae	5	0.084	0.016 – 0.430	0.429	0.203 – 0.654	0.958	B							
Viverridae	14	0.197	0.092 – 0.420	0.326	0.232 – 0.420	0.889	B	13	0.362	0.234 – 0.490	0.830	B	×	
<b>Locomotor type</b>														
arboreal	7	0.114	0.020 – 0.648	0.387	0.173 – 0.602	0.876	B	6	0.383	0.155 – 0.611	0.878	B	×	
semiarboreal	10	0.174	0.075 – 0.405	0.352	0.242 – 0.462	0.924	B	9	0.350	0.178 – 0.522	0.810	B	×	
scansorial	45	0.174	0.139 – 0.217	0.349	0.326 – 0.373	0.975	G	44	0.335	0.299 – 0.371	0.937	G	×	
terrestrial	48	0.182	0.142 – 0.265	0.346	0.303 – 0.376	0.948	B	47	0.324	0.283 – 0.365	0.902	G	×	
semifossorial	7	0.214	0.064 – 0.719	0.321	0.168 – 0.473	0.911	B	6	0.325	0.160 – 0.490	0.912	B	×	
semiaquatic	11	0.160	0.068 – 0.378	0.359	0.259 – 0.460	0.929	B	10	0.364	0.227 – 0.501	0.871	B	×	
aquatic	8	0.026	0.014 – 0.048	0.488	0.438 – 0.539	0.995	+	7	0.489	0.437 – 0.541	0.995	+	×	

SR26 – d <sub>tm</sub>	traditional regression							PIC regression						
	n	a	95% CI <sub>a</sub>	b <sub>trad</sub>	95% CI <sub>b</sub>	R	sim.	n	b <sub>PIC</sub>	95% CI <sub>b</sub>	R	sim.	b <sub>trad</sub> ≠ b <sub>PIC</sub>	
<b>whole sample</b>	136	0.200	0.176 – 0.232	0.339	0.321 – 0.354	0.964	G	135	0.364	0.341 – 0.387	0.932	E	✓	
<b>fissipeds</b>	129	0.180	0.155 – 0.209	0.353	0.334 – 0.370	0.962	nei.	128	0.362	0.338 – 0.386	0.930	E	×	
<b>Family</b>														
Canidae	16	0.091	0.051 – 0.346	0.436	0.295 – 0.496	0.919	B	15	0.406	0.314 – 0.498	0.919	B	×	
Mustelidae	32	0.191	0.144 – 0.254	0.341	0.305 – 0.377	0.959	B	31	0.375	0.326 – 0.424	0.937	B	×	
Procyonidae	7	<i>0.471</i>	<i>0.115 – 1.927</i>	<i>0.223</i>	<i>0.048 – 0.397</i>	<i>0.733</i>	<i>B</i>	6	<i>0.221</i>	<i>0.022 – 0.420</i>	<i>0.687</i>	<i>B</i>	n.s.	
Ursidae	7	0.593	0.205 – 1.714	0.236	0.146 – 0.327	0.943	–	6	0.237	0.140 – 0.334	0.944	G	×	
Felidae	26	0.179	0.127 – 0.253	0.358	0.322 – 0.395	0.970	B	25	0.364	0.318 – 0.410	0.953	B	×	
Herpestidae	12	0.347	0.191 – 0.629	0.280	0.197 – 0.364	0.906	G	11	0.263	0.176 – 0.350	0.885	G	×	
Eupleridae	5	0.129	0.030 – 0.559	0.391	0.189 – 0.594	0.959	B							
Viverridae	14	0.217	0.120 – 0.395	0.318	0.244 – 0.391	0.929	B	13	0.352	0.177 – 0.527	0.624	B	×	
<b>Locomotor type</b>														
arboreal	7	0.159	0.045 – 0.555	0.355	0.200 – 0.509	0.925	B	6	0.360	0.199 – 0.521	0.876	B	×	
semiarboreal	10	0.156	0.075 – 0.323	0.371	0.276 – 0.466	0.949	B	9	0.409	0.249 – 0.569	0.924	B	×	
scansorial	45	0.181	0.142 – 0.232	0.351	0.324 – 0.377	0.969	B	44	0.369	0.328 – 0.410	0.975	B	×	
terrestrial	48	0.179	0.139 – 0.238	0.359	0.324 – 0.391	0.963	B	47	0.355	0.317 – 0.393	0.948	B	×	
semifossorial	7	0.153	0.048 – 0.489	0.372	0.226 – 0.518	0.940	B	6	0.375	0.210 – 0.540	0.911	B	×	
semiaquatic	11	0.206	0.076 – 0.557	0.327	0.210 – 0.444	0.881	B	10	0.366	0.212 – 0.520	0.929	B	×	
aquatic	8	0.098	0.023 – 0.421	0.382	0.260 – 0.505	0.947	B	7	0.382	0.259 – 0.505	0.995	B	×	

SR27 – MR	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
<b>whole sample</b>	136	0.031	0.002 – 0.039	0.150	0.127 – 0.459	0.122	+	135	0.168	0.139 – 0.197	0.043	+	n.s.	
<b>fissipeds</b>	129	0.427	0.352 – 7.313	-0.159	-0.494 – -0.133	0.050	-	128	0.172	0.142 – 0.202	0.004	+	n.s.	
<b>Family</b>														
Canidae	16	0.012	$8.81 \cdot 10^{-5}$ – 0.028	0.219	0.109 – 0.757	0.226	<i>E</i>	15	-0.231	-0.364 – -0.098	0.039	-	n.s.	
Mustelidae	32	0.038	0.022 – 0.065	0.157	0.095 – 0.224	0.315	<i>E</i>	31	0.167	0.105 – 0.229	0.139	<i>E</i>	n.s.	
Procyonidae	7	0.022	$1.21 \cdot 10^{-4}$ – 0.057	0.214	0.093 – 0.833	0.284	<i>E</i>	6	0.238	-0.049 – 0.525	0.228	<i>B</i>	n.s.	
Ursidae	7	1.315	0.225 – 4.209	-0.188	-0.290 – -0.035	0.773	-	6	-0.187	-0.337 – -0.037	0.765	-	×	
Felidae	26	0.036	0.005 – 0.055	0.109	0.064 – 0.331	0.302	<i>E</i>	25	-0.137	-0.195 – -0.079	0.048	-	n.s.	
Herpestidae	12	0.496	0.288 – 11.350	-0.195	-0.634 – -0.112	0.503	-	11	-0.188	-0.310 – -0.066	0.422	-	n.s.	
Eupleridae	5	0.016	$1.42 \cdot 10^{-4}$ – 0.471	0.243	-0.279 – 0.902	0.851	<i>B</i>							
Viverridae	14	0.384	-0.715 – 0.975	-0.145	-0.544 – -0.060	0.143	-	13	-0.176	-0.284 – -0.068	0.260	-	n.s.	
<b>Locomotor type</b>														
arboreal	7	0.019	$4.10 \cdot 10^{-4}$ – 0.460	0.227	-0.179 – 0.689	0.379	<i>B</i>	6	-0.203	-0.453 – 0.047	0.114	<i>B</i>	n.s.	
semiarboreal	10	0.017	$1.99 \cdot 10^{-4}$ – 0.087	0.245	0.022 – 0.855	0.278	<i>E</i>	9	0.269	0.063 – 0.475	0.404	<i>E</i>	n.s.	
scansorial	45	0.033	0.026 – 0.042	0.130	0.102 – 0.156	0.428	<i>E</i>	44	0.142	0.099 – 0.185	0.130	<i>E</i>	n.s.	
terrestrial	48	0.393	0.272 – 0.527	-0.165	-0.205 – -0.116	0.539	-	47	-0.175	-0.226 – -0.124	0.164	<i>G</i>	n.s.	
semifossorial	7	0.069	0.010 – 0.130	0.101	0.021 – 0.351	0.263	<i>E</i>	6	0.118	-0.026 – 0.262	0.163	<i>B</i>	n.s.	
semiaquatic	11	0.038	0.028 – 0.073	0.148	0.070 – 0.187	0.811	<i>E</i>	10	0.154	0.055 – 0.253	0.546	<i>E</i>	n.s.	
aquatic	8	0.041	$1.73 \cdot 10^{-4}$ – 0.226	0.118	-0.029 – 0.571	0.122	<i>B</i>	7	0.148	$4.25 \cdot 10^{-4}$ – 0.296	0.320	<i>E</i>	n.s.	

SR28 – % <sub>prox</sub>	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
<b>whole sample</b>	137	16.881	15.596 – 18.365	0.058	0.048 – 0.067	0.416	+	136	0.066	0.055 – 0.077	0.240	+	×	
<b>fissipeds</b>	<i>130</i>	<i>17.894</i>	<i>16.368 – 19.789</i>	<i>0.050</i>	<i>0.039 – 0.060</i>	<i>0.172</i>	+	129	0.061	0.051 – 0.071	0.272	+	n.s.	
<b>Family</b>														
Canidae	17	11.899	1.718 – 17.783	0.090	0.043 – 0.304	0.398	+	16	-0.112	-0.174 – -0.050	0.024	-	n.s.	
Mustelidae	32	17.535	15.276 – 20.941	0.062	0.041 – 0.078	0.529	+	31	0.049	0.032 – 0.066	0.409	+	×	
Procyonidae	7	7.280	0.619 – 29.174	0.154	-0.009 – 0.474	0.416	<i>B</i>	6	0.151	-0.023 – 0.324	0.384	<i>B</i>	n.s.	
Ursidae	7	19.134	9.449 – 23.714	0.030	0.012 – 0.089	0.556	+	6	0.032	-0.002 – 0.066	0.511	<i>B</i>	n.s.	
Felidae	26	18.184	16.218 – 20.654	0.043	0.030 – 0.054	0.525	+	25	0.042	0.025 – 0.059	0.245	+	n.s.	
Herpestidae	12	43.421	39.811 – 124.738	-0.060	-0.208 – -0.045	0.004	-	11	0.056	0.016 – 0.096	0.183	+	n.s.	
Eupleridae	5	19.996	10.046 – 33.963	0.041	-0.043 – 0.130	0.267	<i>B</i>							
Viverridae	14	10.940	1.239 – 16.482	0.114	0.061 – 0.382	0.258	+	13	0.114	0.042 – 0.186	0.066	+	n.s.	
<b>Locomotor type</b>														
arboreal	7	8.619	0.504 – 37.239	0.126	-0.071 – 0.478	0.095	<i>B</i>	6	-0.115	-0.253 – 0.023	0.261	<i>B</i>	n.s.	
semiarboreal	10	17.235	9.829 – 25.527	0.056	-0.001 – 0.125	0.496	<i>B</i>	9	0.060	0.030 – 0.090	0.799	+	n.s.	
scansorial	45	19.829	18.408 – 21.429	0.033	0.025 – 0.041	0.426	+	44	0.042	0.029 – 0.055	0.251	+	n.s.	
terrestrial	49	38.380	35.156 – 81.283	-0.040	-0.132 – -0.029	0.002	-	48	0.051	0.036 – 0.066	0.130	+	n.s.	
semifossorial	7	20.893	9.643 – 26.546	0.043	0.016 – 0.141	0.346	+	6	0.038	-0.008 – 0.084	0.249	<i>B</i>	n.s.	
semiaquatic	11	18.143	15.704 – 25.942	0.058	0.017 – 0.074	0.822	+	10	0.058	0.028 – 0.088	0.725	+	×	
aquatic	8	20.970	4.901 – 36.224	0.046	0.001 – 0.164	0.486	+	7	0.049	-8.77·10 <sup>-4</sup> – 0.099	0.240	<i>B</i>	n.s.	

SR29 – % <sub>mid</sub>	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
<b>whole sample</b>	137	57.597	54.325 – 61.094	-0.046	-0.053 – -0.039	0.595	–	136	-0.044	-0.050 – -0.038	0.508	–	×	
<b>fissipeds</b>	130	53.530	50.699 – 55.976	-0.037	-0.042 – -0.030	0.418	–	129	-0.039	-0.045 – -0.033	0.454	–	×	
<b>Family</b>														
Canidae	17	52.881	44.361 – 59.704	-0.039	-0.053 – -0.019	0.720	–	16	-0.039	-0.057 – -0.021	0.531	–	×	
Mustelidae	32	51.916	48.529 – 55.081	-0.031	-0.039 – -0.022	0.701	–	31	-0.028	-0.036 – -0.020	0.681	–	×	
Procyonidae	7	82.092	44.055 – 142.561	-0.088	-0.154 – -0.016	0.705	–	6	-0.084	-0.156 – -0.012	0.721	–	n.s.	
Ursidae	7	63.416	34.514 – 175.388	-0.040	-0.127 – 0.013	0.290	<i>B</i>	6	-0.046	-0.102 – 0.010	0.070	<i>B</i>	n.s.	
Felidae	26	46.957	42.756 – 72.277	-0.022	-0.068 – -0.012	0.193	–	25	-0.030	-0.042 – -0.018	0.328	–	n.s.	
Herpestidae	12	53.174	42.756 – 86.298	-0.043	-0.108 – -0.011	0.473	–	11	-0.040	-0.064 – -0.016	0.554	–	n.s.	
Eupleridae	5	23.025	4.328 – 37.757	0.070	-0.011 – 0.309	0.581	<i>B</i>							
Viverridae	14	71.945	50.003 – 272.898	-0.074	-0.239 – -0.030	0.299	–	13	-0.057	-0.090 – -0.024	0.424	–	n.s.	
<b>Locomotor type</b>														
arboreal	7	65.253	27.290 – 158.489	-0.052	-0.158 – 0.061	0.184	<i>B</i>	6	0.024	0.019 – 0.029	0.984	+	n.s.	
semiarboreal	10	50.548	41.305 – 87.297	-0.028	-0.099 – 0.002	0.017	<i>B</i>	9	-0.026	-0.047 – -0.005	0.241	–	n.s.	
scansorial	45	47.676	45.082 – 73.790	-0.022	-0.071 – -0.016	0.102	–	44	-0.031	-0.040 – -0.022	0.328	–	n.s.	
terrestrial	49	54.125	50.699 – 57.544	-0.042	-0.050 – -0.033	0.720	–	48	-0.032	-0.040 – -0.024	0.508	–	✓	
semifossorial	7	46.644	42.658 – 71.450	-0.025	-0.078 – -0.012	0.324	–	6	-0.026	-0.055 – 0.003	0.444	<i>B</i>	n.s.	
semiaquatic	11	56.312	48.529 – 131.522	-0.039	-0.136 – -0.018	0.397	–	10	0.030	0.011 – 0.049	0.604	+	n.s.	
aquatic	8	92.066	68.391 – 163.682	-0.091	-0.139 – -0.068	0.929	–	7	-0.089	-0.137 – -0.041	0.857	–	×	

SR30 – % <sub>dist</sub>	traditional regression							PIC regression						
	n	<i>a</i>	95% CI <sub><i>a</i></sub>	<i>b</i> <sub>trad</sub>	95% CI <sub><i>b</i></sub>	R	sim.	n	<i>b</i> <sub>PIC</sub>	95% CI <sub><i>b</i></sub>	R	sim.	<i>b</i> <sub>trad</sub> ≠ <i>b</i> <sub>PIC</sub>	
<b>whole sample</b>	137	22.631	21.429 – 24.099	0.044	0.037 – 0.051	0.187	+	136	0.050	0.041 – 0.059	0.098	+	n.s.	
<b>fissipeds</b>	130	21.807	20.464 – 23.496	0.050	0.040 – 0.057	0.222	+	129	-0.063	-0.074 – -0.052	0.001	-	n.s.	
<b>Family</b>														
Canidae	17	19.738	4.642 – 29.923	0.067	0.023 – 0.231	0.032	+	16	0.082	0.037 – 0.127	0.070	+	n.s.	
Mustelidae	32	42.374	37.844 – 84.333	-0.042	-0.133 – -0.030	0.077	-	31	0.067	0.042 – 0.092	0.041	+	n.s.	
Procyonidae	7	20.663	8.674 – 75.858	0.063	-0.088 – 0.172	0.475	<i>B</i>	6	0.062	-0.005 – 0.129	0.490	<i>B</i>	n.s.	
Ursidae	7	47.610	34.995 – 168.267	-0.032	-0.140 – -0.003	0.005	-	6	-0.031	-0.069 – 0.007	0.071	<i>B</i>	n.s.	
Felidae	26	51.109	44.771 – 115.611	-0.042	-0.131 – -0.029	0.331	-	25	0.046	0.027 – 0.065	0.035	+	n.s.	
Herpestidae	12	18.030	4.642 – 22.961	0.082	0.044 – 0.273	0.312	+	11	0.076	0.024 – 0.128	0.287	+	n.s.	
Eupleridae	5	57.438	24.831 – 189.234	-0.069	-0.237 – 0.062	0.797	<i>B</i>							
Viverridae	14	45.930	36.644 – 109.901	-0.042	-0.148 – -0.011	0.053	-	13	0.104	0.039 – 0.169	0.191	+	n.s.	
<b>Locomotor type</b>														
arboreal	7	20.142	3.648 – 79.433	0.062	-0.111 – 0.278	0.099	<i>B</i>	6	0.049	-0.010 – 0.108	0.264	<i>B</i>	n.s.	
semiarboreal	10	40.105	36.644 – 42.855	-0.026	-0.034 – -0.014	0.792	-	9	0.072	0.012 – 0.132	0.026	+	n.s.	
scansorial	45	45.867	42.658 – 80.538	-0.032	-0.095 – -0.024	0.267	-	44	0.048	0.033 – 0.063	0.069	+	n.s.	
terrestrial	49	21.434	19.861 – 23.933	0.055	0.041 – 0.066	0.634	+	48	0.053	0.038 – 0.068	0.276	+	n.s.	
semifossorial	7	44.066	37.325 – 95.060	-0.040	-0.146 – -0.016	0.094	-	6	0.029	-0.002 – 0.060	0.514	<i>B</i>	n.s.	
semiaquatic	11	51.098	27.925 – 80.353	-0.064	-0.113 – 0.002	0.400	<i>B</i>	10	-0.072	-0.088 – -0.056	0.957	-	n.s.	
aquatic	8	12.791	2.191 – 25.351	0.078	0.035 – 0.226	0.749	+	7	0.079	0.001 – 0.157	0.368	+	n.s.	









<b>SR37 – d<sub>sh</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	137	3.985	3.824 – 4.146	0.348	0.246 – 0.449	1.023	0.898 – 1.149	0.975	×
<b>fissipeds</b>	130	3.842	3.675 – 4.008	0.358	0.251 – 0.465	1.019	0.888 – 1.150	0.971	×
<b>Family</b>									
Canidae	17	3.056	2.850 – 3.261	0.415	0.207 – 0.623	1.100	0.710 – 1.489	0.960	×
Mustelidae	32	3.047	2.773 – 3.321	0.511	0.251 – 0.772	0.838	0.574 – 1.101	0.952	×
Procyonidae	7	2.529	2.137 – 2.921	0.338	-0.216 – 0.891	0.993	-0.856 – 2.842	0.908	×
Ursidae	7	3.691	3.617 – 3.766	0.286	0.197 – 0.376	1.025	0.658 – 1.391	0.993	×
Felidae	26	3.660	3.522 – 3.799	0.384	0.256 – 0.512	1.004	0.811 – 1.198	0.985	×
Herpestidae	12	2.121	1.960 – 2.282	0.329	0.131 – 0.527	0.862	0.302 – 1.422	0.953	×
Eupleridae	5	2.545	2.462 – 2.629	0.304	0.214 – 0.394	1.596	1.282 – 1.910	0.999	✓ (D>1)
Viverridae	14	2.632	2.313 – 2.952	0.476	0.099 – 0.853	0.642	0.068 – 1.216	0.898	×
<b>Locomotor type</b>									
arboreal	7	2.715	2.609 – 2.822	0.313	0.197 – 0.428	1.217	0.812 – 1.621	0.993	×
semiarboreal	10	2.843	2.628 – 3.058	0.511	0.267 – 0.755	0.825	0.480 – 1.170	0.983	×
scansorial	45	3.625	3.487 – 3.764	0.261	0.158 – 0.363	1.192	0.986 – 1.399	0.982	×
terrestrial	49	3.910	3.613 – 4.206	0.447	0.255 – 0.639	0.919	0.743 – 1.095	0.969	×
semifossorial	7	2.382	2.136 – 2.628	0.215	-0.149 – 0.580	1.387	-0.184 – 2.958	0.964	×
semiaquatic	11	2.858	2.456 – 3.259	0.242	-0.123 – 0.607	1.329	0.254 – 2.404	0.915	×
aquatic	8	4.227	3.651 – 4.803	0.716	0.071 – 1.361	0.504	-0.054 – 1.062	0.936	×

<b>SR38 – d<sub>th</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	137	3.808	3.626 – 3.990	0.439	0.312 – 0.565	0.915	0.795 – 1.035	0.973	×
<b>fissipeds</b>	130	3.649	3.462 – 3.836	0.463	0.328 – 0.598	0.887	0.764 – 1.009	0.969	×
<b>Family</b>									
Canidae	17	2.849	2.539 – 3.105	0.491	0.217 – 0.765	0.850	0.448 – 1.253	0.944	×
Mustelidae	32	2.379	2.170 – 2.588	0.328	0.138 – 0.518	0.933	0.624 – 1.242	0.947	×
Procyonidae	7	2.143	1.923 – 2.362	0.267	-0.036 – 0.569	0.941	-0.299 – 2.182	0.949	×
Ursidae	7	3.418	3.292 – 3.545	0.127	-0.021 – 0.274	1.613	0.135 – 3.090	0.947	×
Felidae	26	3.246	3.103 – 3.389	0.315	0.186 – 0.444	1.059	0.819 – 1.298	0.980	×
Herpestidae	12	1.762	1.614 – 1.909	0.210	0.029 – 0.391	1.054	0.193 – 1.916	0.914	×
Eupleridae	5	2.246	1.853 – 2.638	0.407	-0.116 – 0.929	1.074	-0.301 – 2.450	0.988	×
Viverridae	14	2.398	2.152 – 2.645	0.490	0.198 – 0.781	0.613	0.192 – 1.035	0.939	×
<b>Locomotor type</b>									
arboreal	7	2.403	2.228 – 2.577	0.353	0.183 – 0.569	0.841	0.175 – 1.507	0.978	×
semiarboreal	10	2.479	2.198 – 2.761	0.494	0.169 – 0.819	0.731	0.274 – 1.189	0.964	×
scansorial	45	3.435	3.303 – 3.566	0.323	0.217 – 0.428	1.076	0.908 – 1.244	0.986	×
terrestrial	49	3.572	3.289 – 3.855	0.436	0.251 – 0.621	0.908	0.734 – 1.081	0.968	×
semifossorial	7	2.102	1.872 – 2.332	0.225	-0.134 – 0.584	1.304	-0.172 – 2.779	0.967	×
semiaquatic	11	2.207	1.906 – 2.508	0.202	-0.091 – 0.495	1.107	0.111 – 2.103	0.893	×
aquatic	8	3.593	3.090 – 4.096	0.179	-0.297 – 0.656	1.730	-0.485 – 3.946	0.901	×

<b>SR39 – HR</b>	<b>n</b>	<b><i>ln A</i></b>	<b>95% CI<sub><i>ln A</i></sub></b>	<b><i>C</i></b>	<b>95% CI<sub><i>C</i></sub></b>	<b><i>D</i></b>	<b>95% CI<sub><i>D</i></sub></b>	<b><i>R</i></b>	<b><i>D</i> ≠ 1</b>
<b>whole sample</b>	137	4.224	-25.155 – 33.603	6.108	-23.324 – 35.540	0.038	-0.144 – 0.219	0.607	✓ ( <i>D</i> =0)
<b>fissipeds</b>	130	-2.049	-2.351 – -1.746	0.070	-0.173 – 0.312	0.749	-0.633 – 2.130	0.292	×
<b>Family</b>									
Canidae	17	-2.320	-2.495 – -2.145	0.032	-0.089 – 0.152	2.042	-1.137 – 5.222	0.548	×
Mustelidae	32	-1.509	-2.425 – -0.592	0.486	-0.484 – 1.457	0.330	-0.303 – 0.963	0.620	✓ ( <i>D</i> =0)
Procyonidae	7	<i>-2.055</i>	<i>-2.378 – -1.733</i>	<i>0.108</i>	<i>-0.408 – 0.624</i>	<i>1.296</i>	<i>-4.827 – 7.419</i>	<i>0.681</i>	n.s.
Ursidae	7	–	–	–	–	–	–	–	n.c.
Felidae	26	-2.026	-2.182 – -1.871	0.105	-0.039 – 0.248	1.011	0.219 – 1.803	0.823	×
Herpestidae	12	–	–	–	–	–	–	–	n.c.
Eupleridae	5	-2.118	-2.260 – -1.977	0.033	-0.048 – 0.114	2.911	0.284 – 5.537	0.991	×
Viverridae	14	-2.209	-2.365 – -2.053	0.078	-0.087 – 0.242	1.155	-0.628 – 2.939	0.653	×
<b>Locomotor type</b>									
arboreal	7	–	–	–	–	–	–	–	n.c.
semiarboreal	10	-2.079	-2.357 – -1.801	0.142	-0.163 – 0.447	1.017	-0.621 – 2.656	0.806	×
scansorial	45	-2.099	-2.268 – -1.930	0.053	-0.080 – 0.186	1.101	-0.192 – 2.394	0.616	×
terrestrial	49	–	–	–	–	–	–	–	n.c.
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	<i>-1.743</i>	<i>-2.269 – -1.217</i>	<i>0.120</i>	<i>-0.382 – 0.622</i>	<i>1.171</i>	<i>-1.742 – 4.083</i>	<i>0.586</i>	n.s.
aquatic	8	–	–	–	–	–	–	–	n.c.

<b>SR40 – L<sub>r</sub></b>	<b>n</b>	<b><i>ln A</i></b>	<b>95% CI<sub><i>ln A</i></sub></b>	<b><i>C</i></b>	<b>95% CI<sub><i>C</i></sub></b>	<b><i>D</i></b>	<b>95% CI<sub><i>D</i></sub></b>	<b><i>R</i></b>	<b><i>D</i> ≠ 1</b>
<b>whole sample</b>	137	5.470	5.287 – 5.653	0.088	0.027 – 0.149	1.600	1.277 – 1.924	0.909	✓ ( <i>D</i> >1)
<b>fissipeds</b>	130	5.654	5.414 – 5.894	0.202	0.081 – 0.322	1.266	0.990 – 1.543	0.913	×
<b>Family</b>									
Canidae	17	5.444	5.060 – 5.829	0.482	0.070 – 0.893	0.854	0.238 – 1.471	0.882	×
Mustelidae	32	4.431	4.185 – 4.678	0.184	-0.002 – 0.370	1.261	0.684 – 1.839	0.897	×
Procyonidae	7	4.667	4.153 – 5.182	0.533	-0.039 – 1.104	0.460	-0.227 – 1.147	0.950	×
Ursidae	7	5.613	5.534 – 5.693	0.209	0.114 – 0.304	1.285	0.723 – 1.846	0.988	×
Felidae	26	5.531	5.333 – 5.730	0.245	0.066 – 0.423	1.060	0.632 – 1.489	0.941	×
Herpestidae	12	4.288	3.934 – 4.643	0.428	-0.002 – 0.858	0.727	-0.130 – 1.584	0.885	×
Eupleridae	5	4.417	3.765 – 5.070	0.155	-0.571 – 0.881	1.517	-3.462 – 6.496	0.909	×
Viverridae	14	4.724	4.484 – 4.964	0.463	0.183 – 0.743	0.488	0.114 – 0.862	0.944	✓ ( <i>D</i> <1)
<b>Locomotor type</b>									
arboreal	7	4.692	4.306 – 5.078	0.346	-0.113 – 0.805	0.943	-0.516 – 2.402	0.910	×
semiarboreal	10	4.678	4.535 – 4.821	0.362	0.197 – 0.527	0.649	0.386 – 1.012	0.981	×
scansorial	45	5.538	5.386 – 5.691	0.173	0.070 – 0.276	1.300	0.981 – 1.619	0.962	×
terrestrial	49	5.909	5.496 – 6.322	0.238	0.049 – 0.428	1.258	0.909 – 1.606	0.946	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	–	–	–	–	–	–	–	n.c.
aquatic	8	5.395	5.001 – 5.788	0.287	-0.128 – 0.703	1.078	-0.026 – 2.181	0.910	×

<b>SR41 – d<sub>sr</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	137	3.112	2.928 – 3.296	0.326	0.207 – 0.445	0.994	0.838 – 1.149	0.961	×
<b>fissipeds</b>	130	3.017	2.824 – 3.209	0.363	0.232 – 0.494	0.952	0.797 – 1.108	0.956	×
<b>Family</b>									
Canidae	17	2.466	2.210 – 2.721	0.415	0.152 – 0.678	1.039	0.554 – 1.525	0.936	×
Mustelidae	32	2.013	1.772 – 2.255	0.266	0.061 – 0.471	1.069	0.644 – 1.495	0.923	×
Procyonidae	7	1.774	1.352 – 2.196	0.374	-0.121 – 0.869	0.582	-0.450 – 1.614	0.918	×
Ursidae	7	2.780	2.541 – 3.018	0.120	-0.138 – 0.379	2.206	-0.579 – 4.992	0.902	×
Felidae	26	2.831	2.635 – 3.026	0.416	0.229 – 0.602	0.947	0.691 – 1.203	0.973	×
Herpestidae	12	1.528	1.268 – 1.789	0.284	-0.037 – 0.604	0.976	-0.127 – 2.079	0.861	×
Eupleridae	5	1.624	1.330 – 1.918	0.210	-0.125 – 0.546	1.454	-0.247 – 3.155	0.987	×
Viverridae	14	2.024	1.845 – 2.203	0.526	0.316 – 0.737	0.546	0.280 – 0.812	0.972	√ (D<1)
<b>Locomotor type</b>									
arboreal	7	2.059	1.428 – 2.689	0.635	-0.149 – 1.418	0.367	-0.433 – 1.167	0.974	×
semiarboreal	10	1.700	1.541 – 1.860	0.169	0.002 – 0.335	1.210	0.429 – 1.990	0.960	×
scansorial	45	2.864	2.679 – 3.050	0.343	0.186 – 0.500	0.989	0.759 – 1.219	0.971	×
terrestrial	49	3.084	2.776 – 3.393	0.336	0.153 – 0.519	1.009	0.781 – 1.237	0.959	×
semifossorial	7	1.769	1.509 – 2.029	0.198	-0.162 – 0.558	1.485	-0.203 – 3.174	0.960	×
semiaquatic	11	2.114	1.746 – 2.482	0.309	-0.049 – 0.668	1.096	0.301 – 1.890	0.926	×
aquatic	8	3.011	2.414 – 3.608	0.236	-0.345 – 0.816	1.607	-0.422 – 3.635	0.898	×
<b>SR42 – d<sub>tr</sub></b>									
<b>whole sample</b>	137	4.031	3.757 – 4.304	0.590	0.391 – 0.789	0.862	0.725 – 1.000	0.963	×
<b>fissipeds</b>	130	3.467	3.234 – 3.700	0.384	0.235 – 0.534	1.023	0.853 – 1.193	0.953	×
<b>Family</b>									
Canidae	17	2.897	2.634 – 3.160	0.538	0.256 – 0.820	0.844	0.468 – 1.220	0.950	×
Mustelidae	32	2.365	2.088 – 2.642	0.580	0.304 – 0.856	0.707	0.474 – 0.940	0.950	√ (D<1)
Procyonidae	7	1.956	1.574 – 2.338	0.315	-0.232 – 0.861	1.022	-0.970 – 3.014	0.901	×
Ursidae	7	3.330	2.976 – 3.685	0.341	-0.083 – 0.766	0.927	-0.487 – 2.341	0.904	×
Felidae	26	3.210	3.086 – 3.334	0.352	0.240 – 0.464	1.053	0.867 – 1.240	0.988	×
Herpestidae	12	1.592	0.867 – 2.318	0.432	-0.391 – 1.254	0.472	-0.710 – 1.653	0.751	×
Eupleridae	5	1.998	1.663 – 2.334	0.386	-0.049 – 0.826	1.127	-0.080 – 2.334	0.991	×
Viverridae	14	2.303	1.897 – 2.709	0.735	0.271 – 1.199	0.401	0.066 – 0.736	0.951	√ (D<1)
<b>Locomotor type</b>									
arboreal	7	2.194	1.832 – 2.557	0.366	-0.061 – 0.793	0.967	-0.317 – 2.250	0.929	×
semiarboreal	10	2.363	2.019 – 2.707	0.658	0.255 – 1.062	0.590	0.196 – 0.983	0.964	√ (D<1)
scansorial	45	3.240	3.088 – 3.392	0.290	0.174 – 0.405	1.159	0.951 – 1.368	0.981	×
terrestrial	49	3.580	3.141 – 4.019	0.390	0.139 – 0.641	1.045	0.773 – 1.317	0.948	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	2.130	1.806 – 2.453	0.422	0.077 – 0.767	0.704	0.206 – 1.203	0.933	×
aquatic	8	4.097	3.622 – 4.572	0.444	-0.051 – 0.939	1.180	0.314 – 2.046	0.952	×



<b>SR45 – L<sub>u</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	136	5.510	5.331 – 5.688	0.085	0.027 – 0.143	1.613	1.291 – 1.936	0.911	✓ ( <i>D</i> >1)
<b>fissipeds</b>	129	5.736	5.499 – 5.972	0.216	0.092 – 0.339	1.235	0.972 – 1.497	0.919	×
<b>Family</b>									
Canidae	16	5.491	5.102 – 5.881	0.473	0.054 – 0.891	0.869	0.228 – 1.511	0.886	×
Mustelidae	32	4.525	4.278 – 4.772	0.199	0.007 – 0.390	1.215	0.666 – 1.764	0.901	×
Procyonidae	7	4.721	4.162 – 5.281	0.540	-0.074 – 1.155	0.435	-0.256 – 1.125	0.947	×
Ursidae	7	5.703	5.630 – 5.776	0.239	0.151 – 0.327	1.115	0.673 – 1.557	0.991	×
Felidae	26	5.593	5.409 – 5.778	0.245	0.080 – 0.411	1.060	0.663 – 1.456	0.949	×
Herpestidae	12	4.305	4.007 – 4.603	0.384	0.019 – 0.750	0.824	-0.042 – 1.689	0.894	×
Eupleridae	5	4.469	3.923 – 5.015	0.172	-0.455 – 0.799	1.439	-2.444 – 5.322	0.938	×
Viverridae	14	4.816	4.534 – 5.099	0.516	0.191 – 0.840	0.417	0.072 – 0.762	0.949	✓ ( <i>D</i> <1)
<b>Locomotor type</b>									
arboreal	7	4.762	4.370 – 5.155	0.358	-0.111 – 0.827	0.929	-0.509 – 2.368	0.912	×
semiarboreal	10	4.779	4.623 – 4.934	0.407	0.226 – 0.589	0.633	0.339 – 0.926	0.981	✓ ( <i>D</i> <1)
scansorial	45	5.599	5.452 – 5.746	0.172	0.073 – 0.271	1.308	1.000 – 1.616	0.964	×
terrestrial	48	5.986	5.573 – 6.400	0.258	0.060 – 0.456	1.219	0.883 – 1.554	0.947	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	–	–	–	–	–	–	–	n.c.
aquatic	8	5.306	4.878 – 5.734	0.188	-0.253 – 0.629	1.257	-0.590 – 3.105	0.847	×
<b>SR46 – d<sub>su</sub></b>									
<b>whole sample</b>	136	3.585	3.328 – 3.843	0.442	0.260 – 0.624	0.901	0.731 – 1.071	0.948	×
<b>fissipeds</b>	129	3.466	3.189 – 3.743	0.492	0.286 – 0.697	0.852	0.679 – 1.025	0.938	×
<b>Family</b>									
Canidae	16	2.289	1.984 – 2.594	0.378	0.071 – 0.685	1.167	0.529 – 1.804	0.918	×
Mustelidae	32	2.429	2.191 – 2.667	0.407	0.185 – 0.629	0.880	0.593 – 1.167	0.949	×
Procyonidae	7	2.100	1.546 – 2.655	0.247	-0.720 – 1.214	1.498	-3.882 – 6.877	0.784	×
Ursidae	7	<i>3.249</i>	<i>2.832 – 3.667</i>	<i>0.214</i>	<i>-0.284 – 0.712</i>	<i>0.852</i>	<i>-1.712 – 3.416</i>	<i>0.744</i>	n.s.
Felidae	26	3.165	2.952 – 3.379	0.424	0.214 – 0.633	0.880	0.604 – 1.157	0.964	×
Herpestidae	12	1.752	1.261 – 2.243	0.497	-0.077 – 1.071	0.568	-0.267 – 1.403	0.867	×
Eupleridae	5	2.057	1.554 – 2.560	0.561	-0.239 – 1.362	0.661	-0.767 – 2.090	0.985	×
Viverridae	14	–	–	–	–	–	–	–	n.c.
<b>Locomotor type</b>									
arboreal	7	2.568	1.808 – 3.328	0.742	-0.206 – 1.690	0.372	-0.469 – 1.212	0.971	×
semiarboreal	10	2.243	2.008 – 2.479	0.384	0.114 – 0.655	0.763	0.267 – 1.258	0.961	×
scansorial	45	3.229	3.016 – 3.443	0.304	0.135 – 0.474	1.089	0.802 – 1.377	0.961	×
terrestrial	48	3.342	2.960 – 3.723	0.591	0.301 – 0.881	0.743	0.552 – 0.935	0.939	✓ ( <i>D</i> <1)
semifossorial	7	2.220	1.857 – 2.583	0.539	-0.052 – 1.130	0.679	-0.156 – 1.514	0.982	×
semiaquatic	11	2.333	2.067 – 2.599	0.323	0.058 – 0.589	1.010	0.458 – 1.563	0.955	×
aquatic	8	3.351	2.823 – 3.879	0.185	-0.329 – 0.699	1.596	-0.693 – 3.885	0.873	×



<b>SR47 – d<sub>tu</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	136	3.316	3.089 – 3.543	0.426	0.269 – 0.584	0.992	0.768 – 1.076	0.958	×
<b>fissipeds</b>	129	3.370	3.108 – 3.632	0.585	0.382 – 0.788	0.798	0.657 – 0.939	0.953	✓ ( <i>D</i> <1)
<b>Family</b>									
Canidae	16	2.392	2.067 – 2.717	0.443	0.093 – 0.793	0.861	0.291 – 1.432	0.906	×
Mustelidae	32	1.887	1.639 – 2.134	0.238	0.037 – 0.439	1.141	0.667 – 1.615	0.915	×
Procyonidae	7	1.677	1.041 – 2.314	0.436	-0.262 – 1.134	0.432	-0.535 – 1.400	0.903	×
Ursidae	7	3.083	2.751 – 3.415	0.133	-0.221 – 0.486	2.313	-1.158 – 5.784	0.870	×
Felidae	26	2.974	2.654 – 3.293	0.545	0.223 – 0.867	0.815	0.491 – 1.139	0.945	×
Herpestidae	12	1.618	1.269 – 1.968	0.422	-0.002 – 0.846	0.741	-0.126 – 1.607	0.884	×
Eupleridae	5	1.687	1.516 – 1.858	0.358	0.124 – 0.592	1.010	0.310 – 1.710	0.997	×
Viverridae	14	1.941	1.714 – 2.169	0.398	0.132 – 0.664	0.738	0.225 – 1.250	0.924	×
<b>Locomotor type</b>									
arboreal	7	1.772	1.455 – 2.090	0.222	-0.100 – 0.543	1.432	-0.149 – 3.012	0.926	×
semiarboreal	10	1.968	1.724 – 2.212	0.455	0.171 – 0.739	0.676	0.254 – 1.098	0.965	×
scansorial	45	3.157	2.877 – 3.437	0.512	0.258 – 0.766	0.866	0.627 – 1.106	0.962	×
terrestrial	48	3.313	2.994 – 3.631	0.472	0.262 – 0.682	0.901	0.719 – 1.083	0.965	×
semifossorial	7	1.689	1.154 – 2.225	0.462	-0.458 – 1.383	0.763	-0.848 – 2.375	0.946	×
semiaquatic	11	1.814	1.421 – 2.207	0.140	-0.204 – 0.484	1.436	-0.345 – 3.217	0.833	×
aquatic	8	3.036	2.853 – 3.219	0.235	0.058 – 0.413	1.622	0.999 – 2.244	0.989	×

<b>SR48 – O</b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	136	4.300	4.176 – 4.424	0.224	0.159 – 0.290	1.209	1.079 – 1.339	0.978	✓ ( <i>D</i> >1)
<b>fissipeds</b>	129	4.199	4.064 – 4.334	0.256	0.180 – 0.331	1.163	1.029 – 1.297	0.975	✓ ( <i>D</i> >1)
<b>Family</b>									
Canidae	16	3.667	3.465 – 3.868	0.394	0.185 – 0.603	1.048	0.642 – 1.454	0.959	×
Mustelidae	32	3.305	3.122 – 3.488	0.324	0.168 – 0.480	1.059	0.793 – 1.324	0.967	×
Procyonidae	7	2.837	2.325 – 3.348	0.294	-0.482 – 1.071	1.155	-2.079 – 4.389	0.831	×
Ursidae	7	4.395	2.809 – 5.982	0.608	-1.027 – 2.242	0.225	-0.664 – 1.113	0.927	×
Felidae	26	4.192	4.069 – 4.315	0.385	0.268 – 0.501	0.969	0.795 – 1.143	0.987	×
Herpestidae	12	2.711	2.556 – 2.866	0.325	0.134 – 0.515	0.984	0.409 – 1.558	0.956	×
Eupleridae	5	3.001	2.629 – 3.373	0.311	-0.145 – 0.767	1.279	-0.287 – 2.846	0.987	×
Viverridae	14	3.117	2.951 – 3.283	0.314	0.138 – 0.489	1.141	0.670 – 1.612	0.956	×
<b>Locomotor type</b>									
arboreal	7	3.207	2.815 – 3.600	0.379	-0.063 – 0.822	1.099	-0.184 – 2.381	0.934	×
semiarboreal	10	3.109	2.942 – 3.438	0.395	0.121 – 0.669	0.990	0.465 – 1.515	0.972	×
scansorial	45	4.058	3.927 – 4.188	0.217	0.125 – 0.308	1.257	1.032 – 1.482	0.980	✓ ( <i>D</i> >1)
terrestrial	48	4.304	4.050 – 4.557	0.297	0.161 – 0.434	1.107	0.911 – 1.304	0.976	×
semifossorial	7	3.184	2.952 – 3.416	0.403	-0.013 – 0.820	0.979	0.063 – 1.894	0.985	×
semiaquatic	11	3.257	2.953 – 3.562	0.256	-0.029 – 0.541	1.232	0.449 – 2.014	0.944	×
aquatic	8	4.232	3.830 – 4.634	0.135	-0.223 – 0.493	1.982	-0.279 – 4.244	0.927	×



<b>SR51 – UR</b>	<b>n</b>	<b><i>ln A</i></b>	<b>95% CI<sub><i>ln A</i></sub></b>	<b><i>C</i></b>	<b>95% CI<sub><i>C</i></sub></b>	<b><i>D</i></b>	<b>95% CI<sub><i>D</i></sub></b>	<b><i>R</i></b>	<b><i>D</i> ≠ 1</b>
<b>whole sample</b>	136	–	–	–	–	–	–	–	n.c.
<b>fissipeds</b>	129	-2.659	-2.749 – -2.570	$-5.03 \cdot 10^{-6}$	$-8.56 \cdot 10^{-5} - 7.55 \cdot 10^{-5}$	5.440	-2.626 – 13.506	0.179	×
<b>Family</b>									
Canidae	16	-3.109	-3.384 – -2.833	0.012	-0.123 – 0.146	2.720	-6.867 – 12.306	0.297	n.s.
Mustelidae	32	-1.900	-4.729 – 0.929	0.409	-2.494 – 3.312	0.161	-1.039 – 1.362	0.349	n.s.
Procyonidae	7	–	–	–	–	–	–	–	n.c.
Ursidae	7	–	–	–	–	–	–	–	n.c.
Felidae	26	-2.400	-2.966 – -1.835	0.209	-0.414 – 0.832	0.469	-0.797 – 1.736	0.475	×
Herpestidae	12	–	–	–	–	–	–	–	n.c.
Eupleridae	5	–	–	–	–	–	–	–	n.c.
Viverridae	14	–	–	–	–	–	–	–	n.c.
<b>Locomotor type</b>									
arboreal	7	–	–	–	–	–	–	–	n.c.
semiarboreal	10	-2.497	-2.756 – -2.239	0.027	-0.244 – 0.299	1.193	-6.714 – 9.100	0.315	n.s.
scansorial	45	-2.336	-2.914 – -1.758	0.182	-0.415 – 0.779	0.463	-0.733 – 1.658	0.374	×
terrestrial	48	-3.039	-3.337 – -2.740	-0.004	-0.028 – 0.020	2.605	-0.232 – 5.441	0.551	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	-1.965	-2.772 – -1.157	0.287	-0.606 – 1.181	0.412	-1.062 – 1.886	0.576	n.s.
aquatic	8	–	–	–	–	–	–	–	n.c.

<b>SR52 – IFA</b>	<b>n</b>	<b><i>ln A</i></b>	<b>95% CI<sub><i>ln A</i></sub></b>	<b><i>C</i></b>	<b>95% CI<sub><i>C</i></sub></b>	<b><i>D</i></b>	<b>95% CI<sub><i>D</i></sub></b>	<b><i>R</i></b>	<b><i>D</i> ≠ 1</b>
<b>whole sample</b>	136	-0.422	-4.259 – 3.416	0.992	-2.882 – 4.866	0.114	-0.315 – 0.543	0.341	✓ ( <i>D</i> =0)
<b>fissipeds</b>	129	-1.358	-10.852 – 8.137	0.235	-9.312 – 9.782	0.068	-2.713 – 2.850	0.055	n.s.
<b>Family</b>									
Canidae	16	-1.753	-1.917 – -1.589	0.001	-0.018 – 0.019	4.920	-23.901 – 33.741	0.237	n.s.
Mustelidae	32	-1.243	-1.575 – -0.910	0.104	-0.216 – 0.425	0.795	-0.762 – 2.352	0.459	×
Procyonidae	7	–	–	–	–	–	–	–	n.c.
Ursidae	7	–	–	–	–	–	–	–	n.c.
Felidae	26	-1.398	-1.620 – -1.176	0.142	-0.086 – 0.370	0.765	-0.088 – 1.618	0.730	×
Herpestidae	12	–	–	–	–	–	–	–	n.c.
Eupleridae	5	-1.458	-1.856 – -1.059	0.162	-0.421 – 0.745	0.881	-2.828 – 4.589	0.920	×
Viverridae	14	-1.531	-1.628 – -1.435	0.023	-0.025 – 0.071	2.685	0.930 – 4.440	0.867	×
<b>Locomotor type</b>									
arboreal	7	–	–	–	–	–	–	–	n.c.
semiarboreal	10	-1.557	-1.705 – -1.409	0.036	-0.060 – 0.132	2.199	-0.092 – 4.491	0.891	×
scansorial	45	-1.552	-1.718 – -1.386	0.036	-0.093 – 0.166	1.116	-0.750 – 2.982	0.480	×
terrestrial	48	-1.763	-2.028 – -1.498	-0.010	-0.084 – 0.064	1.683	-1.743 – 5.109	0.374	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	-1.047	-1.482 – -0.613	0.217	-0.251 – 0.685	0.655	-0.628 – 1.938	0.693	×
aquatic	8	-1.027	-1.156 – -0.899	0.009	-0.045 – 0.062	3.696	-1.901 – 9.294	0.911	×

<b>SR53 – L<sub>m</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	136	4.449	4.254 – 4.644	0.080	0.017 – 0.143	1.620	1.248 – 1.993	0.887	✓ ( <i>D</i> >1)
<b>fissipeds</b>	129	4.566	4.323 – 4.810	0.157	0.045 – 0.268	1.356	1.023 – 1.690	0.890	✓ ( <i>D</i> >1)
<b>Family</b>									
Canidae	16	4.589	4.290 – 4.888	0.454	0.135 – 0.772	0.930	0.409 – 1.451	0.926	×
Mustelidae	32	3.477	3.236 – 3.718	0.127	-0.038 – 0.292	1.395	0.636 – 2.153	0.857	×
Procyonidae	7	3.529	2.596 – 4.462	0.513	-0.461 – 1.487	0.311	-0.513 – 1.134	0.912	×
Ursidae	7	4.505	4.156 – 4.855	0.409	-0.003 – 0.821	0.707	-0.315 – 1.730	0.931	×
Felidae	26	4.635	4.478 – 4.792	0.239	0.103 – 0.375	1.135	0.796 – 1.473	0.966	×
Herpestidae	12	3.492	3.220 – 3.764	0.512	0.188 – 0.836	0.642	0.142 – 1.141	0.951	×
Eupleridae	5	3.315	3.038 – 3.591	0.106	-0.169 – 0.382	1.774	-0.979 – 4.527	0.976	×
Viverridae	14	3.593	3.365 – 3.821	0.340	0.082 – 0.597	0.927	0.309 – 1.545	0.911	×
<b>Locomotor type</b>									
arboreal	7	–	–	–	–	–	–	–	n.c.
semiarboreal	10	3.699	3.142 – 4.256	0.430	-0.221 – 1.081	0.620	-0.373 – 1.613	0.830	×
scansorial	45	4.384	4.199 – 4.569	0.098	0.002 – 0.195	1.579	1.035 – 2.123	0.918	✓ ( <i>D</i> >1)
terrestrial	48	4.942	4.531 – 5.353	0.200	0.024 – 0.375	1.325	0.935 – 1.715	0.942	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	3.716	3.269 – 4.164	0.369	-0.115 – 0.852	0.639	-0.134 – 1.412	0.844	×
aquatic	8	4.643	4.250 – 5.036	0.523	0.100 – 0.945	0.916	0.319 – 1.514	0.960	×

<b>SR54 – d<sub>sm</sub></b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	136	2.692	2.524 – 2.860	0.283	0.180 – 0.385	1.060	0.903 – 1.217	0.963	×
<b>fissipeds</b>	129	2.575	2.397 – 2.753	0.296	0.185 – 0.407	1.050	0.884 – 1.216	0.957	×
<b>Family</b>									
Canidae	16	1.987	1.781 – 2.194	0.291	0.099 – 0.483	1.396	0.861 – 1.931	0.951	×
Mustelidae	32	1.717	1.482 – 1.952	0.339	0.125 – 0.553	0.933	0.595 – 1.270	0.937	×
Procyonidae	7	1.248	0.595 – 1.901	0.325	-0.498 – 1.149	0.742	-1.622 – 3.105	0.776	×
Ursidae	7	2.385	2.200 – 2.571	0.197	-0.024 – 0.419	0.887	-0.372 – 2.146	0.918	×
Felidae	26	2.454	2.348 – 2.560	0.320	0.223 – 0.418	1.021	0.844 – 1.198	0.988	×
Herpestidae	12	1.223	0.979 – 1.446	0.322	0.026 – 0.618	0.754	-0.046 – 1.554	0.901	×
Eupleridae	5	1.196	0.616 – 1.776	0.248	-0.379 – 0.875	1.586	-1.106 – 4.278	0.973	×
Viverridae	14	1.453	1.204 – 1.703	0.345	0.058 – 0.631	0.848	0.183 – 1.514	0.892	×
<b>Locomotor type</b>									
arboreal	7	1.348	0.997 – 1.699	0.162	-0.138 – 0.463	1.939	-0.073 – 3.952	0.928	×
semiarboreal	10	1.700	1.326 – 2.075	0.573	0.133 – 1.013	0.589	0.096 – 1.081	0.946	×
scansorial	45	2.370	2.254 – 2.487	0.174	0.099 – 0.250	1.358	1.125 – 1.591	0.980	✓ ( <i>D</i> >1)
terrestrial	48	2.587	2.251 – 2.923	0.303	0.108 – 0.498	1.034	0.763 – 1.305	0.948	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	1.797	1.445 – 2.149	0.343	-0.011 – 0.696	0.982	0.293 – 1.670	0.929	×
aquatic	8	2.806	2.672 – 2.940	0.454	0.313 – 0.596	1.054	0.817 – 1.291	0.995	×





<b>SR59 – %dist</b>	<b>n</b>	<b>ln A</b>	<b>95% CI<sub>ln A</sub></b>	<b>C</b>	<b>95% CI<sub>C</sub></b>	<b>D</b>	<b>95% CI<sub>D</sub></b>	<b>R</b>	<b>D ≠ 1</b>
<b>whole sample</b>	137	3.516	3.497 – 3.535	$3.27 \cdot 10^{-7}$	$-2.79 \cdot 10^{-6} - 3.44 \cdot 10^{-6}$	6.190	1.549 – 10.832	0.318	✓ ( $D > 1$ )
<b>fissipeds</b>	130	3.519	3.498 – 3.540	$2.68 \cdot 10^{-6}$	$-1.93 \cdot 10^{-5} - 2.46 \cdot 10^{-5}$	5.354	1.226 – 9.482	0.329	✓ ( $D > 1$ )
<b>Family</b>									
Canidae	17	3.599	3.301 – 3.897	0.012	-0.308 – 0.332	0.372	-11.387 – 12.132	0.071	n.s.
Mustelidae	32	3.425	3.400 – 3.450	$4.38 \cdot 10^{-8}$	$-1.98 \cdot 10^{-6} - 2.07 \cdot 10^{-6}$	8.423	-19.191 – 36.036	0.235	n.s.
Procyonidae	7	–	–	–	–	–	–	–	n.c.
Ursidae	7	–	–	–	–	–	–	–	n.c.
Felidae	26	3.452	3.115 – 3.789	-0.070	-0.433 – 0.293	0.278	-1.231 – 1.787	0.363	n.s.
Herpestidae	12	–	–	–	–	–	–	–	n.c.
Eupleridae	5	–	–	–	–	–	–	–	n.c.
Viverridae	14	–	–	–	–	–	–	–	n.c.
<b>Locomotor type</b>									
arboreal	7	–	–	–	–	–	–	–	n.c.
semiarboreal	10	–	–	–	–	–	–	–	n.c.
scansorial	45	3.481	3.356 – 3.607	-0.029	-0.157 – 0.100	0.485	-1.202 – 2.171	0.285	n.s.
terrestrial	49	3.598	3.533 – 3.664	0.002	-0.005 – 0.009	2.400	0.574 – 4.226	0.696	×
semifossorial	7	–	–	–	–	–	–	–	n.c.
semiaquatic	11	–	–	–	–	–	–	–	n.c.
aquatic	8	3.687	3.034 – 4.339	0.208	-0.479 – 0.896	0.249	-0.821 – 1.318	0.832	×