

Supplementary material

Supplementary table S1. Sample size (N) and sex-specific static allometric slopes (β) and corresponding coefficients of determination (r^2). Allometries were calculated using ordinary least-squares regressions of log-transformed trait dimension against log-transformed thorax length. Results in bold are significantly different from 1 (isometry).

Line	N		Forefemur length				Forefemur width				Foretibia length				Foretibia width			
			r^2		β		r^2		β		r^2		β		r^2		β	
	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀
1	30	31	0.885	0.948	0.681	0.845	0.917	0.525	1.121	0.777	0.863	0.908	0.626	0.862	0.775	0.742	0.967	0.837
2	23	11	0.801	0.917	0.628	0.697	0.856	0.430	0.857	1.083	0.800	0.947	0.601	0.822	0.579	0.542	1.074	0.727
3	30	43	0.824	0.829	0.682	0.855	0.928	0.363	1.080	1.117	0.923	0.820	0.717	0.930	0.704	0.363	0.981	0.529
4	37	40	0.702	0.266	0.671	0.427	0.800	0.000	0.942	-0.148	0.769	0.249	0.636	0.424	0.306	0.028	0.502	0.172
5	49	47	0.883	0.891	0.785	0.895	0.903	0.285	1.112	0.832	0.876	0.875	0.744	0.903	0.689	0.499	1.048	0.891
6	38	38	0.680	0.856	0.514	0.887	0.814	0.115	1.021	0.355	0.840	0.883	0.706	0.980	0.525	0.612	0.742	0.708
7	39	44	0.657	0.839	0.714	0.956	0.810	0.362	1.103	0.628	0.808	0.833	0.718	0.954	0.425	0.659	0.754	0.749
8	24	27	0.834	0.822	0.632	0.723	0.812	0.647	1.191	1.174	0.857	0.840	0.732	0.892	0.540	0.585	1.168	0.686
9	19	14	0.760	0.862	0.860	0.759	0.898	0.163	0.782	0.156	0.906	0.825	0.719	0.934	0.373	0.735	0.679	0.834
10	35	14	0.846	0.940	0.588	0.969	0.918	0.681	1.202	1.416	0.879	0.922	0.638	1.073	0.821	0.818	0.821	1.085
11	34	29	0.691	0.746	0.674	0.724	0.568	0.681	0.951	1.363	0.834	0.740	0.693	0.793	0.607	0.266	1.624	0.701
12	40	30	0.868	0.876	0.679	0.800	0.942	0.373	1.322	0.765	0.952	0.880	0.860	0.712	0.697	0.649	1.156	0.875
13	27	31	0.852	0.857	0.615	0.743	0.842	0.190	1.011	0.373	0.936	0.802	0.722	0.765	0.592	0.373	0.690	0.901
14	25	29	0.796	0.936	0.473	0.731	0.823	0.463	0.959	1.095	0.876	0.929	0.729	0.881	0.663	0.738	0.531	0.626
15	40	46	0.806	0.868	0.695	0.890	0.869	0.491	1.096	1.335	0.860	0.863	0.757	1.007	0.689	0.624	1.287	1.029
16	30	35	0.737	0.889	0.714	0.825	0.838	0.382	1.314	0.908	0.830	0.912	0.818	0.864	0.705	0.790	1.428	0.790
17	25	24	0.538	0.745	0.631	0.810	0.862	0.172	1.046	0.824	0.826	0.671	0.702	0.844	0.728	0.398	1.209	0.630
18	27	27	0.349	0.897	0.293	0.822	0.471	0.442	0.541	1.211	0.639	0.877	0.384	0.974	0.148	0.604	0.454	1.027
19	30	32	0.428	0.872	0.656	0.944	0.552	0.129	0.807	0.399	0.788	0.859	0.810	0.983	0.203	0.512	0.754	0.778
20	28	32	0.913	0.907	0.671	0.789	0.903	0.372	1.050	0.963	0.932	0.916	0.799	0.899	0.486	0.492	0.390	0.827
21	33	23	0.749	0.786	0.629	0.488	0.878	0.284	1.163	0.642	0.673	0.790	0.663	0.592	0.510	0.102	0.915	0.211

Supplementary table S1. Continued.

Line	Foretarsus1 length				Hindfemur length				Hindfemur width				Hindtibia length			
	r^2		β		r^2		β		r^2		β		r^2		β	
	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀
1	0.838	0.855	0.984	1.181	0.966	0.672	0.970	0.850	0.745	0.485	1.146	0.911	0.975	0.608	0.845	0.841
2	0.754	0.682	0.796	0.730	0.904	0.913	0.775	0.616	0.646	0.452	1.064	1.019	0.924	0.893	0.727	0.545
3	0.829	0.696	0.729	1.175	0.868	0.833	0.933	0.802	0.651	0.083	1.189	0.207	0.857	0.795	0.908	0.745
4	0.491	0.090	0.630	0.420	0.848	0.480	0.557	0.450	0.387	0.032	0.823	0.315	0.850	0.544	0.541	0.508
5	0.901	0.719	1.157	1.032	0.811	0.295	0.920	0.753	0.709	0.057	1.257	0.373	0.758	0.233	0.883	0.873
6	0.681	0.819	0.724	1.029	0.681	0.841	0.923	0.841	0.315	0.264	0.640	0.759	0.657	0.868	0.839	0.858
7	0.595	0.778	0.972	1.342	0.901	0.703	0.910	0.958	0.558	0.272	1.061	0.384	0.913	0.709	0.924	0.916
8	0.716	0.604	0.769	0.558	0.839	0.809	0.971	0.789	0.730	0.411	1.152	0.658	0.845	0.795	0.910	0.737
9	0.746	0.852	0.455	0.904	0.844	0.900	1.020	0.802	0.402	0.133	1.250	-0.236	0.872	0.918	0.951	0.899
10	0.819	0.845	0.838	1.504	0.919	0.588	0.839	1.106	0.715	0.490	1.073	1.495	0.929	0.477	0.842	1.009
11	0.584	0.717	1.055	1.082	0.825	0.507	0.794	0.637	0.729	0.497	2.006	1.096	0.849	0.467	0.858	0.773
12	0.889	0.738	1.010	0.850	0.530	0.687	0.956	0.839	0.443	0.374	1.003	0.652	0.482	0.669	0.889	0.812
13	0.806	0.805	0.800	0.905	0.587	0.866	0.801	0.717	0.312	0.355	0.723	0.530	0.631	0.897	0.762	0.819
14	0.558	0.862	0.716	0.985	0.723	0.945	0.776	0.868	0.308	0.330	0.369	0.607	0.701	0.949	0.757	0.811
15	0.636	0.835	0.882	1.211	0.716	0.292	0.814	0.921	0.727	0.167	1.305	1.596	0.804	0.298	0.840	0.938
16	0.680	0.877	0.901	1.219	0.925	0.937	0.907	0.898	0.586	0.316	1.732	0.423	0.897	0.934	0.922	0.829
17	0.556	0.406	0.826	0.713	0.399	0.276	0.956	0.716	0.401	0.064	2.051	0.005	0.367	0.285	0.893	0.814
18	0.249	0.826	0.420	1.156	0.681	0.919	0.443	0.998	0.569	0.507	1.423	1.348	0.729	0.943	0.590	1.033
19	0.691	0.701	1.033	1.098	0.862	0.852	0.885	0.893	0.317	0.290	0.891	1.114	0.855	0.883	0.871	0.862
20	0.603	0.827	0.787	1.223	0.951	0.887	0.992	0.992	0.381	0.409	0.451	0.639	0.942	0.931	0.874	0.971
21	0.648	0.650	0.768	0.775	0.397	0.780	0.877	0.521	0.520	0.369	1.441	1.145	0.396	0.855	0.877	0.732

Supplementary table S1. Continued.

Line	Hindtibia width				Hindtarsus1 length				Wing length				Wing width			
	r^2		β		r^2		β		r^2		β		r^2		β	
	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀	♂	♀
1	0.765	0.489	0.692	0.613	0.942	0.660	1.068	1.042	0.933	0.735	0.617	0.617	0.859	0.788	0.562	0.552
2	0.398	0.398	0.449	0.417	0.907	0.645	0.911	0.676	0.678	0.803	0.577	0.456	0.447	0.724	0.519	0.472
3	0.668	0.340	0.780	0.462	0.829	0.798	1.129	1.142	0.948	0.810	0.633	0.588	0.938	0.721	0.706	0.591
4	0.499	0.000	0.382	-0.019	0.827	0.274	0.729	0.664	0.826	0.147	0.363	0.206	0.694	0.181	0.613	0.219
5	0.583	0.008	0.951	0.426	0.760	0.273	1.208	1.073	0.914	0.837	0.624	0.666	0.813	0.715	0.467	0.488
6	0.403	0.371	0.479	0.584	0.686	0.843	1.044	1.028	0.832	0.844	0.520	0.590	0.844	0.791	0.558	0.564
7	0.485	0.276	0.826	0.427	0.850	0.711	1.133	1.271	0.755	0.379	0.488	0.661	0.764	0.500	0.445	0.533
8	0.693	0.456	0.715	0.632	0.820	0.820	1.102	0.990	0.844	0.757	0.590	0.507	0.838	0.597	0.614	0.435
9	0.335	0.457	0.575	0.927	0.783	0.709	1.171	0.610	0.685	0.858	0.596	0.748	0.554	0.587	0.697	0.674
10	0.671	0.568	0.790	0.990	0.922	0.305	1.015	1.058	0.964	0.969	0.707	0.809	0.927	0.947	0.755	0.787
11	0.706	0.335	1.173	0.708	0.769	0.344	1.192	0.902	0.745	0.702	0.520	0.515	0.783	0.666	0.626	0.528
12	0.431	0.282	0.810	0.479	0.420	0.402	1.124	0.729	0.966	0.887	0.691	0.656	0.896	0.719	0.600	0.641
13	0.547	0.470	0.625	0.637	0.615	0.861	1.177	0.984	0.917	0.843	0.555	0.574	0.503	0.636	0.557	0.445
14	0.265	0.352	0.330	0.498	0.699	0.894	0.849	0.861	0.868	0.837	0.437	0.538	0.846	0.757	0.573	0.489
15	0.602	0.289	0.804	0.966	0.750	0.296	1.081	1.172	0.831	0.829	0.599	0.579	0.696	0.765	0.534	0.685
16	0.705	0.257	1.059	0.448	0.807	0.866	1.124	1.058	0.758	0.903	0.617	0.592	0.723	0.839	0.535	0.587
17	0.443	0.106	1.227	0.304	0.303	0.344	0.940	1.050	0.834	0.717	0.776	0.614	0.840	0.473	0.883	0.595
18	0.483	0.748	0.679	1.020	0.548	0.865	0.585	1.253	0.573	0.916	0.354	0.693	0.615	0.834	0.402	0.613
19	0.269	0.233	0.468	0.438	0.630	0.683	0.843	0.973	0.515	0.832	0.605	0.658	0.402	0.583	0.578	0.572
20	0.641	0.574	0.736	0.849	0.921	0.903	1.159	1.126	0.961	0.808	0.694	0.745	0.932	0.722	0.665	0.701
21	0.493	0.472	0.934	0.844	0.407	0.743	1.050	0.609	0.671	0.667	0.521	0.441	0.618	0.510	0.601	0.540

Supplementary figure S1. Sex-specific static allometries for the 21 genotypes and sexes. Horizontal dashed lines indicate isometry. The vertical error bars represent 95% confidence intervals. That there was more variation in slopes for leg width compared to length dimensions was likely the result of greater measurement error due to less well-defined landmarks for the much shorter distances to measure.

