

Table S3. Correlations & regression statistics, raw values (without phylogenetic correction). **A.** Regression statistics (least squares) for ln RP & ln OD relationships. Significant relationships highlighted in bold. **B.** Bivariate correlations matrices for all variables. Significant correlations for RP & OD highlighted in bold. * = no data available for subfossil lemurs, so no separate analysis excluding subfossil species conducted; ** = sample too small for analysis.

A.	<i>sample</i>	r^2	p	n	B	<i>standard error</i>	$Beta$	<i>95% confidence interval</i>	
								<i>lower bound</i>	<i>upper bound</i>
<i>In Body Mass vs In RP</i>	<i>primates</i>	0.552	<0.01	70	0.234	0.260	0.743	0.183	0.284
	<i>anthropoids</i>	0.806	<0.01	48	0.275	0.020	0.898	0.235	0.315
	<i>strepsirrhines</i>	0.053	0.30	22	0.036	0.034	0.230	-0.035	0.107
	<i>lemurs</i>	0.298	0.26	16	0.058	0.50	0.298	-0.049	0.165
	<i>streps. no subfossil</i>	0.007	0.75	16	0.018	0.057	0.085	-0.105	0.141
	<i>non-lemur streps.</i>	0.059	0.64	6	0.036	0.072	0.244	-0.163	0.236
<i>In ECV vs In RP</i>	<i>primates</i>	0.706	<0.01	64	0.347	0.028	0.840	0.290	0.404
	<i>anthropoids</i>	0.776	<0.01	43	0.360	0.030	0.881	0.299	0.420
	<i>strepsirrhines</i>	0.162	0.07	21	0.114	0.059	0.403	-0.010	0.239
	<i>lemurs</i>	0.301	0.03	16	0.202	0.082	0.549	0.026	0.378
	<i>streps. no subfossil</i>	0.066	0.36	16	0.087	0.091	0.256	-0.109	0.283
	<i>non-lemur streps.</i>	0.003	0.93	6	0.019	0.207	0.052	-0.640	0.677
<i>In SCR vs In RP</i>	<i>primates</i>	0.456	<0.01	47	1.721	0.281	0.675	1.156	2.286
	<i>anthropoids</i>	0.686	<0.01	28	2.280	0.303	0.828	1.658	2.902
	<i>strepsirrhines</i>	0.120	0.15	19	0.383	0.252	0.346	-0.149	0.914
	<i>lemurs</i>	0.328	0.03	15	1.118	0.443	0.573	0.161	2.074
	<i>streps. no subfossil</i>	0.005	0.82	14	0.061	0.269	0.068	-0.531	0.653
	<i>non-lemur streps.</i>	0.131	0.639	5	-0.278	0.508	-0.361	-2.464	1.907

<i>In AFR vs In RP</i>	<i>primates</i>	0.507	<0.01	51	0.471	0.085	0.712	0.431	0.741
	<i>anthropoids</i>	0.563	<0.01	39	0.631	0.091	0.750	0.446	0.817
	<i>strepsirrhines*</i>	0.099	0.319	12	-0.144	0.37	-0.315	-0.450	0.162
	<i>lemurs</i>	0.072	0.486	9	-0.158	0.215	-0.268	-0.666	0.350
	<i>non-lemur streps.**</i>	-	-	-	-	-	-	-	-
<i>In Body mass vs In OD</i>	<i>primates</i>	-	-	-	-	-	-	-	-
	<i>anthropoids</i>	-	-	-	-	-	-	-	-
	<i>strepsirrhines</i>	0.068	0.47	10	-0.059	0.077	-0.260	-0.236	0.119
	<i>lemurs</i>	0.566	0.08	6	-0.240	0.105	-0.752	-0.531	0.052
	<i>In ECV vs In OD</i>	<i>primates</i>	-	-	-	-	-	-	-
<i>anthropoids</i>		-	-	-	-	-	-	-	-
<i>strepsirrhines</i>		0.128	0.31	10	-0.107	0.099	-0.358	-0.335	0.121
<i>lemurs</i>		0.315	0.25	6	-0.207	0.153	-0.561	-0.631	0.217
<i>In SCR vs In OD</i>		<i>primates</i>	-	-	-	-	-	-	-
	<i>anthropoids</i>	-	-	-	-	-	-	-	-
	<i>strepsirrhines</i>	0.003	0.89	9	0.059	0.422	0.053	-0.938	1.057
	<i>lemurs</i>	0.233	0.41	5	-1.233	1.291	-0.483	-5.342	2.877
	<i>In AFR vs In OD</i>	<i>primates</i>	-	-	-	-	-	-	-
<i>anthropoids</i>		-	-	-	-	-	-	-	-
<i>strepsirrhines</i>		0.185	0.288	8	-0.228	0.195	-0.430	-0.706	0.250
<i>lemurs</i>		0.108	0.590	5	-0.623	1.035	0.328	-3.918	2.671

B.		<i>ln RP</i>	<i>ln body mass</i>	<i>ln ECV</i>	<i>ln SCR</i>	<i>ln OD</i>	<i>ln AFR</i>
primates							
<i>ln RP</i>	r	1	0.743	0.840	0.675	-	0.712
	r ²	1	0.552	0.706	0.456	-	0.508
	p	-	< 0.01	< 0.01	< 0.01	-	< 0.01
	n	74	70	64	47	-	51
<i>ln body mass</i>	r	0.743	1	0.916	0.837	-	0.881
	r ²	0.552	1	0.839	0.701	-	0.776
	p	< 0.01	-	< 0.01	< 0.01	-	< 0.01
	n	70	74	67	50	-	54
<i>ln ECV</i>	r	0.840	0.916	1	0.836	-	0.909
	r ²	0.706	0.839	1	0.699	-	0.826
	p	< 0.01	< 0.01	-	< 0.01	-	< 0.01
	n	64	67	67	49	-	53
<i>ln SCR</i>	r	0.675	0.837	0.836	1	-	0.831
	r ²	0.456	0.701	0.699	1	-	0.691
	p	< 0.01	< 0.01	< 0.01	-	-	< 0.01
	n	47	50	49	57	-	50
<i>ln AFR</i>	r	0.712	0.881	0.909	0.800	-	1
	r ²	0.508	0.776	0.826	0.640	-	1
	p	< 0.01	< 0.01	< 0.01	< 0.01	-	-
	n	51	54	53	50	-	61
anthropoids							
<i>ln RP</i>	r	1	0.898	0.881	0.828	-	0.764
	r ²	1	0.806	0.776	0.686	-	0.584
	p	-	< 0.01	< 0.01	< 0.01	-	< 0.01
	n	52	48	43	28	-	38
<i>ln body mass</i>	r	0.898	1	0.961	0.904	-	0.882
	r ²	0.806	1	0.924	0.817	-	0.778
	p	< 0.01	-	< 0.01	< 0.01	-	< 0.01
	n	48	51	45	30	-	40

<i>In ECV</i>	r	0.881	0.961	1	0.886	-	0.922
	r ²	0.776	0.924	1	0.785	-	0.850
	p	< 0.01	< 0.01	-	< 0.01	-	< 0.01
	n	43	45	45	29	-	39
<i>In SCR</i>	r	0.828	0.904	0.886	1	-	0.796
	r ²	0.686	0.817	0.785	1	-	0.634
	p	< 0.01	< 0.01	< 0.01	-	-	< 0.01
	n	28	30	29	31	-	30
<i>In AFR</i>	r	0.747	0.869	0.911	0.804	-	1
	r ²	0.558	0.755	0.829	0.646	-	1
	p	< 0.01	< 0.01	< 0.01	< 0.01	-	-
	n	38	39	38	30	-	40
<i>strepsirrhines</i>							
<i>In RP</i>	r	1	0.230	0.403	0.346	-0.475	-0.315
	r ²	1	0.053	0.162	0.120	0.226	0.099
	p	-	0.303	0.070	0.147	0.197	0.319
	n	22	22	21	19	9	12
<i>In body mass</i>	r	0.230	1	0.959	0.732	-0.260	0.875
	r ²	0.053	1	0.920	0.536	0.068	0.766
	p	0.303	-	< 0.01	< 0.01	0.468	< 0.01
	n	22	23	22	20	10	13
<i>In ECV</i>	r	0.403	0.959	1	0.791	-0.358	0.850
	r ²	0.162	0.920	1	0.626	0.128	0.723
	p	0.070	< 0.01	-	< 0.01	0.310	< 0.01
	n	21	22	22	20	10	13
<i>In SCR</i>	r	0.346	0.732	0.791	1	-0.053	0.836
	r ²	0.120	0.536	0.626	1	0.003	0.699
	p	0.147	< 0.01	< 0.01	-	0.892	< 0.01
	n	19	20	20	26	9	19
<i>In OD</i>	r	-0.475	-0.260	-0.358	0.053	1	-0.430
	r ²	0.226	0.068	0.128	0.003	1	0.185
	p	0.197	0.468	0.310	0.892	-	0.288
	n	9	10	10	9	10	19

<i>In AFR</i>	r	-0.315	0.875	0.850	0.836	-0.430	1
	r ²	0.099	0.766	0.723	0.699	0.185	1
	p	0.319	< 0.01	< 0.01	< 0.01	0.288	-
	n	12	13	13	19	19	19
lemurs							
<i>In RP</i>	r	1	0.298	0.549	0.573	-0.521	-0.268
	r ²	1	0.089	0.301	0.328	0.271	0.072
	p	-	0.263	0.028	0.025	0.289	0.486
	n	16	16	16	15	6	9
<i>In body mass</i>	r	0.298	1	0.921	0.369	-0.752	0.730
	r ²	0.089	1	0.848	0.136	0.566	0.533
	p	0.263	-	< 0.01	0.176	.084	.025
	n	16	16	16	15	6	9
<i>In ECV</i>	r	0.549	0.921	1	0.536	-0.561	0.517
	r ²	0.301	0.848	1	0.287	0.315	0.267
	p	0.028	< 0.01	-	0.040	0.247	0.154
	n	16	16	16	15	6	9
<i>In SCR</i>	r	0.573	0.369	0.536	1	-0.483	0.837
	r ²	0.328	0.136	0.287	1	0.233	0.701
	p	0.025	0.176	0.040	-	0.410	<0.01
	n	15	15	15	19	5	13
<i>In OD</i>	r	-0.521	-0.752	-0.561	-0.483	1	-.328
	r ²	0.271	0.566	0.315	0.233	1	0.108
	p	0.289	.084	0.247	0.410	-	0.590
	n	6	6	6	5	6	5
<i>In AFR</i>	r	-0.268	0.730	0.517	0.837	-.328	1
	r ²	0.072	0.533	0.267	0.701	0.108	1
	p	0.486	.025	0.154	<0.01	0.590	-
	n	9	9	9	13	5	13