

**Table S2.** *P*-values for Shapiro-Wilk tests for normality for lower first (m1) and second (m2) molars.

<b>Species</b>	<b>Tooth</b>	<b>Asfc</b>	<b>epLsar</b>	<b>Smc</b>	<b>Tfv</b>	<b>HAsfc<sub>(3x3)</sub></b>	<b>HAsfc<sub>(9x9)</sub></b>
<i>Ailuropoda melanoleuca</i>	m1	<b>0.0003*</b>	< 0.0001*	<b>0.003*</b>	<b>0.0002*</b>	0.562	0.287
	m2	0.776	0.705	<b>0.001*</b>	0.055	0.800	0.083
<i>Tremarctos ornatus</i>	m1	<b>0.011*</b>	< 0.0001*	<b>0.001*</b>	0.157	0.460	<b>0.031*</b>
	m2	0.257	0.796	<b>0.002*</b>	0.841	<b>0.034*</b>	0.570
<i>Ursus malayanus</i>	m1	0.579	0.702	0.113	0.641	0.877	0.347
	m2	0.299	0.606	<b>0.008*</b>	0.191	<b>0.024*</b>	0.882
<i>Ursus americanus</i>	m1	0.059	< 0.0001*	<b>0.009*</b>	0.653	0.276	<b>0.001*</b>
	m2	0.542	0.252	< 0.0001*	0.082	0.628	0.123
<i>Ursus maritimus</i>	m1	<b>0.013*</b>	< 0.0001*	< 0.0001*	0.067	<b>0.015*</b>	<b>0.028*</b>
	m2	0.761	<b>0.023*</b>	< 0.0001*	<b>0.046*</b>	<b>0.028*</b>	<b>0.013*</b>
<i>Arctodus simus</i> <sup>†</sup>	m1	0.148	0.179	< 0.0001*	0.352	0.233	<b>0.036*</b>
	m2	0.218	0.216	< 0.0001*	0.403	0.676	0.657

\*Significant values are noted in bold text ( $p<0.05$ ); <sup>†</sup> denotes the extinct taxon; Asfc, area-scale fractal complexity; epLsar, anisotropy; Smc, scale of maximum complexity; Tfv, textural fill volume; HAsfc<sub>(3x3)</sub>, HAsfc<sub>(9x9)</sub> heterogeneity of complexity in a 3x3 and 9x9 grid, respectively