

### Additional Table S6

Bayes factor scores ( $2 \ln B_F$ ) from comparisons of alternative calibration procedures of BRC analyses.

---

Calibration procedures	estimated mean $-\ln L$	vs. BD Stem	vs. BD Crown	vs. Yule Stem	vs. Yule Crown
BD Stem	-219453.58	-	90.74	-7.78	13.98
BD Crown	-219498.95	-90.74	-	-98.52	-76.76
Yule Stem	-219449.69	7.78	98.52	-	21.76
Yule Crown	-219460.57	-13.98	76.76	-14.92	-

---

Though the stem calibration procedures are significantly more supported by the  $B_F$  comparisons, the fossil record does not support their age estimates. Out of the two crown calibration procedures, the BD crown is recovered as the best-fit model ( $B_F$ , difference of 76.76, according to the criterion  $2 \ln B_F > 10$  (Kass & Raftery 1995)).