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Endocranial and inner ear morphology of *Vintana sertichi* (Mammalia, Gondwanatheria)  
from the Late Cretaceous of Madagascar

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TABLE S1. Endocranial volume and body masses in 517 extinct (†) and extant cynodonts. Encephalization quotient (**EQ**) calculated from endocranial volume (**EV**) including olfactory bulbs, and body mass (**BM**) using Eisenberg's (1981) equation =  $EV/(0.055[BM]^{0.74})$ . Endocranial volume is given in  $cm^3$  (= ml =  $1000\ mm^3$  = g). Body mass for *Vintana* is given as lower, mean, and upper estimates for the uncorrected and corrected endocranial volume. Wilson and Reader (2005) was used as the taxonomic authority. **References:** **1** = this study; **2** = Kirk et al. (this volume); **3** = Rodrigues et al. (2013); **4** = Macrini (2006); **5** = Rowe et al. (2011); **6** = Jerison (1973); **7** = Krause and Kielan-Jaworowska (1993); **8** = Haug (1987); **9** = Ashwell (2008); **10** = Eisenberg and Wilson (1981); **11** = Kielan-Jaworowska (1984); **12** = Eisenberg (1981); **13** = Stephan et al. (1981); **14** = Smith et al. (2003); **15** = Gittleman (1986a); **16** = Gittleman (1991); **17** = Finarelli and Flynn (2009); **18** = Finarelli (2008); **19** = Gittleman (1986b); **20** = Finarelli and Flynn (2007); **21** = Fuller et al. (1987); **22** = Larivière (1998); **23** = Nowak (1999); **24** = Bernard and Nurton (1993); **25** = Mann et al. (1988); **26** = Hafner and Hafner (1984); **27** = Iwaniuk (2001).

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TABLE S2. Olfactory bulb volume, endocranial volume, and body masses of 163 extinct (†) and extant mammaliforms. Body mass for *Vintana* is given as lower, mean, and upper estimates for the uncorrected and corrected endocranial and olfactory bulb volume.

**References:** **1** = this study; **2** = Kirk et al. (this volume); **3** = Macrini (2006); **4** = Jerison (1973); **5** = Krause and Kielan-Jaworowska (1993); **6** = Stephan et al. (1981); **7** = Hutcheon et al. (2002). **Abbreviations:** **BM**, body mass in g; **EV**, endocranial volume in  $cm^3$  (= ml =  $1000\ mm^3$  = g); **OB**, combined olfactory bulb volume in  $cm^3$  (= ml =  $1000\ mm^3$  = g).

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