

Table S1. Reference list of peer-reviewed publications on *in vivo* voluntary bite-force performance in non-human vertebrates (up to and including 2014). 97 publications describing 99 studies.

1. **Aguirre, L. F., Herrel, A., Van Damme, R. and Matthysen, E.** (2002). Ecomorphological analysis of trophic niche partitioning in a tropical savanna bat community. *Proc. Roy. Soc. B* **269**, 1271-1278.
2. **Anderson, R. A., McBryer, L. D. and Herrel, A.** (2008). Bite force in vertebrates: opportunities and caveats for use of a nonpareil whole-animal performance measure. *Biol. J. Linn. Soc.* **93**, 709-720.
3. **Becerra, F., Casinos, A. and Vassallo, A. I.** (2013). Biting performance and skull biomechanics of a chisel tooth digging rodent (*Ctenomys tuconax*; Caviomorpha; Octodontoidea). *J. Exp. Zool.* **319A**, 74-85.
4. **Becerra, F., Echeverría, A. I., Marcos, A., Casinos, A. and Vassallo, A. I.** (2012). Sexual selection in a polygynous rodent (*Ctenomys talarum*): an analysis of fighting capacity. *Zoology* **115**(6), 405-10.
5. **Becerra, F., Echeverría, A., Vassallo, A. I. and Casinos, A.** (2011). Bite force and jaw biomechanics in the subterranean rodent Talas tuco-tuco (*Ctenomys talarum*) (Caviomorpha: Octodontoidea). *Can. J. Zool.* **89**, 334-342.
6. **Becerra, F., Echeverría, A.I., Casinos, A. and Vassallo, A.I.** (2014) Another one bites the dust: bite force and ecology in three caviomorph rodents (Rodentia, Hystricognathi). *J. Exp. Zool.* **321**, 220-232.
7. **Binder, W. J. and Van Valkenburgh, B. V.** (2000). Development of bite strength and feeding behaviour in juvenile spotted hyenas (*Crocuta crocuta*). *J. Zool.* **252**, 273-283.
8. **Broeckhoven, C., and Mouton P le F. M.** (2014). Under pressure: morphological and ecological correlates of bite force in the rock-dwelling lizards *Ouroborus cataphractus* and *Karusasaurus polyzonus* (Squamata: Cordylidae). *Biol. J. Linn. Soc.* **111**, 823-833.
9. **Cameron, S. F., Wynn, M. L., Wilson, R. S.** (2013). Sex-specific trade-offs and compensatory mechanisms: bite force and sprint speed pose conflicting demands on the design of geckos (*Hemidactylus frenatus*). *J. Exp. Biol.* **216**, 3781-3789.
10. **Chazeau, C., Marchal, J., Hackert, R., Perret, M. and Herrel, A.** (2013). Proximate determinants of bite force capacity in the mouse lemur. *J. Zool.* **290**, 42-48.

11. **da Silva, J.M., Herrel, A., Measey, G.J., and Tolley, K.A.** 2014. Sexual dimorphism in bite performance drives morphological variation in chameleons. *PLoS ONE* **9**(1): e86846.
12. **D'Amore, D. C., Moreno, K., McHenry, C. R. and Wroe, S.** (2011). The effects of biting and pulling on the forces generated during feeding in the Komodo Dragon (*Varanus komodoensis*). *PLoS ONE* **6**(10), e26226.
doi:10.1371/journal.pone.0026226.
13. **Dechmann, D. K. N., Santana, S. E. and Dumont, E. R.** (2009). Roost making in bats—adaptations for excavating active termite nests. *J. Mammal.* **90**, 1461-1468.
14. **Dessem, D., and Druzinsky, R.E.** (1992) Jaw-muscle activity in ferrets, *Mustela putorius furo*. *J. Morphol.* **213**, 275-286.
15. **Dumont, E. R. and Herrel, A.** (2003). The effects of gape angle and bite point on bite force in bats. *J. Exp. Biol.* **206**, 2117-2123.
16. **Dumont, E. R., Herrel, A., Medellin, B. A., Vargas-Contreras, J. A. and Santana, S. E.** (2009). Built to bite: cranial design and function in the wrinkle-faced bat. *J. Zool.* **279**, 329-337.
17. **Edwards, J. R. and Lailvaux, S. P.** (2013). Do interspecific interactions between females drive shifts in habitat use? A test using the lizards *Anolis carolinensis* and *A. sagrei*. *Biol. J. Linn. Soc.* **110**, 843-851.
18. **Edwards, S., Tolley, K.A., Vanhooydonck, B., Measey, G.J. and Herrel, A.** (2013). Is dietary niche breadth linked to morphology and performance in Sandveld lizards *Nucras* (Sauria: Lacertidae). *Biol. J. Linn. Soc.* **110**, 674-688.
19. **Erickson, G. M., Lappin, A. K. and Van Vliet, K. A.** (2003). The ontogeny of bite-force performance in American alligator (*Alligator mississippiensis*). *J. Zool.* **260**, 317-327.
20. **Erickson, G. M., Lappin, A. K., Parker, T. and Vliet, K. A.** (2004). Comparison of bite-force performance between long-term captive and wild American alligators (*Alligator mississippiensis*). *J. Zool.* **262**, 21-28.
21. **Erickson, G. M., Gignac, P. M., Steppan, S. J., Lappin, A. K., Vliet, K. A., Brueggen, J. D., Inouye, B. D., Kledzik, D. and Webb, G. J. W.** (2012). Insights into the ecology and evolutionary success of crocodilians revealed through bite-force and tooth-pressure experimentation. *PLoS ONE* **7**(3), e31781.
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23. **Fabre, A-C., Andrade, D. V., Huyghe, K., Cornette, R., and Herrel, A.** (2014). Interrelationships between bones, muscles, and performance: biting in the lizard *Tupinambis merianae*. *Evol. Biol.*
24. **Freeman, P. W. and Lemen, C. A.** (2008). A simple morphological predictor of bite force in rodents. *J. Zool.* **275**, 418-422.
25. **Freeman, P. W. and Lemen, C. A.** (2008). Measuring bite force in small mammals with a piezo-resistive sensor. *J. Mammal.* **89**, 513-517.
26. **Freeman, P. W. and Lemen, C. A.** (2010). Simple predictors of bite force in bats: the good, the better and better still. *J. Zool.* **282**, 284-290.
27. **Gowan, T. A., McBrayer, L. D. and Rostala, D. C.** (2010). Seasonal variation in testosterone and performance in males of a non-territorial lizard species. *Physiol. Behav.* **100**, 357-363.
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32. **Herrel, A. and O'Reilly, J.C.** (2006). Ontogenetic scaling of bite force in lizards and turtles. *Physiol. Biochem. Zool.* **79**, 31-42.
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36. **Herrel, A., De Grauw, E. and Lemos-Espinal, J. A.** (2001). Head shape and bite performance in xenosaurid lizards. *J. Exp. Zool.* **290**, 101-107.
37. **Herrel, A., Huyghe, K., Vanhooydonck, B., Backeljau, T., Breugelmans, K., Grbac, I., Van Damme, R. and Irschick, D.J.** (2008). Rapid large-scale evolutionary divergence in morphology and performance associated with exploitation of a different dietary resource. *Proc. Nat. Acad. Sci.* **105**, 4792-4795.
38. **Herrel, A., McBrayer, L. D. and Larson, P. M.** (2007). Functional basis for sexual differences in bite force in the lizard *Anolis carolinensis*. *Biol. J. Linn. Soc.* **91**, 111-119.
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40. **Herrel, A., Podos, J., Huber, S. K. and Hendry, A. P.** (2005). Bite performance and morphology in a population of Darwin's finches: implications for the evolution of beak shape. *Func. Ecol.* **19**, 43-48.
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47. **Huyghe, K., Herrel, A., Adriaens, D., Tadić, Z. and Van Damme, R.** (2009). It is all in the head: morphological basis for differences in bite force among colour morphs of the Dalmatian wall lizard. *Biol. J. Linn. Soc.* **96**, 13-22.
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