

**Table S1.** Dataset for taxa, geological time context, body masses (estimated/typical known) and references. See Fig. 1 for details.

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**Table S2.** Dataset for maximal running speeds vs. body masses of extant mammals, modified from Dick and Clemente (2017), with notes/references for modifications. See Fig. 5 for details.

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**Table S3.** Dataset for limb effective mechanical advantages (EMA) vs. body masses of extant mammals and other taxa, modified from Biewener (2005), with notes/references for modifications. See Fig. 3 for details.

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