**Table S1. References of the samples used for estimating morphological rates above the species** level. (CAS: California Academy of Sciences, AMNH: American Museum of Natural History, New York, NMNH: National Museum of Natural History, Smithsonian Institution, GO: fieldwork pictures obtained directly from John E Randall's  http://pbs.bishopmuseum.org/, MCZ: Museum of Comparative Zoology, Harvard University, Cambridge, Massachusetts).

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