**Supplemental material 12: astragalus comparative**

Right astragali of early Cainozoic carnivorous eutherians in (top to bottom) dorsal, ventral, lateral, and distal views. **A**, viverravid *Didymictis protenus* (USGS 27585), **B**, ‘miacid’ *Uintacyon massetericus* (USNM 493767, reversed from left side), **C**, hyaenodontid *Prototomus martis* (USNM 509700), **D**, oxyaenid *Oxyaena* sp. (uncataloged specimen from USGS locality D-2006), **E**, machaeroidine (CM 2386).

