

## Early Eocene *Cantius torresi*— oldest primate of modern aspect from North America

Philip D. Gingerich

Museum of Paleontology, University of Michigan, Ann Arbor,  
Michigan 48109, USA

The oldest primates of modern aspect (primates of prosimian tarsiform-lemuriform or higher grade) are known from Lower Eocene strata of Sparnacian age in Europe<sup>1,2</sup>, Bumbanian age in Asia<sup>3,4</sup>, and Wasatchian age in North America<sup>5</sup>. These first appearances coincide on all three northern continents with initial records of Artiodactyla, Perissodactyla and other modern mammalian groups appearing approximately 53 Myr ago<sup>6,7</sup>. Here I report that a newly discovered basal Wasatchian faunal assemblage older than any known previously includes the well-preserved dental remains of a new species of *Cantius*, the earliest representative of Eocene Adapidae and the oldest evidence of primates of modern aspect known from North America. This new *Cantius* is possibly ancestral to all later adapids, including the European *Donrussellia* and North American *Pelycodon*. *Cantius torresi* has premolars reminiscent of those in Omomyidae, suggesting that earlier lemuriform and tarsiform primates were closely related and little differentiated at the beginning of the Eocene.

Two major groups of primates of modern aspect, tarsiform Omomyidae and lemuriform Adapidae, are represented in the early Eocene of Europe<sup>8-12</sup>, Asia<sup>3,4,13</sup> and North America<sup>14-20</sup>. Both groups appeared suddenly on northern continents during an interval of climatic warming<sup>21</sup>. No plausible ancestors of the two groups are present in known European, Asian or North American faunas of late Palaeocene age, suggesting their immigration from equatorial areas. The oldest North American omomyid, *Trochodonta americana*, is similar to the European *Trochodonta belgica*<sup>15,16</sup>. The oldest North American adapid known previously, *Cantius ralstoni*, is likewise similar to the European *Cantius eppsi*<sup>17,18</sup>. The discovery of a new North American *Cantius* demonstrably older than *C. ralstoni* is important in clarifying the dental morphology of primitive Adapidae.

### *Cantius torresi* n. sp.

**Holotype.** University of Michigan [UM] 83470, left dentary with  $P_1$ - $M_1$ , collected by Victor Torres from locality SC-67 in the Willwood Formation at the south end of Polecat Bench, Park County, Wyoming.

**Age and distribution.** Earliest Wasatchian Land-Mammal Age (early Eocene) of the Clark's Fork Basin, Wyoming, western North America. This species is known from two adjacent localities (SC-67 and 69) in a restricted 10-m stratigraphic interval within the Clarkforkian-Wasatchian boundary sandstone of Kraus<sup>22</sup>.

**Referred specimens.** Holotype; UM 83467, left dentary with  $M_2$ ; and UM 83475, right maxilla with  $M^{1-2}$  from the type locality. UM 66143, right dentary with  $M_{2-3}$ , from SC-69.

**Diagnosis.** Differs from *C. ralstoni*, *C. eppsi* and all other species of *Cantius* in being smaller, having relatively square upper molars, and having shorter, relatively broader lower premolars and molars.  $P_4$  is distinctive in having a broad trigonid and talonid. The paracristid connecting the paraconid and protoconid on  $P_4$  forms a right-angle with the metaconid connecting the metaconid and protoconid.

**Description.** The holotype dentary (Fig. 1a) preserves matrix-filled alveoli for the lower canine, a single-rooted  $P_1$  and a double-rooted  $P_2$ . The crown of  $P_1$  is simple with a single central protoconid cusp, no accessory paraconid or metaconid, and little more than a trace of a talonid.  $P_2$  is 2.4 mm long and

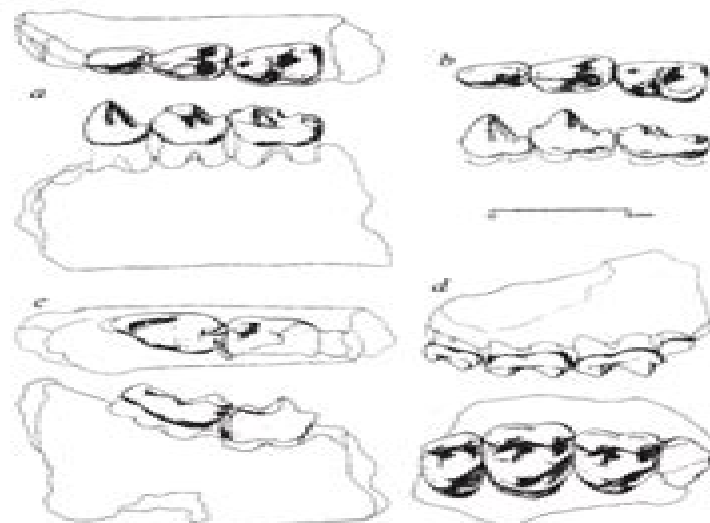


Fig. 1 Dentition of *Cantius torresi*, from the earliest Wasatchian of western North America, and *Cantius eppsi*, from the Sparnacian of UK. a, Left dentary of *C. torresi* [UM 83470, holotype] with  $P_1$ - $M_1$  in occlusal (top) and lateral (bottom) view. Partial alveoli for the single-rooted  $P_1$  and double-rooted  $P_2$  are shown in outline. The remains of the alveoli for the larger lower canine are obscured in these views. b, Right  $P_2$ - $M_2$  (reversed for comparison) of *C. eppsi* [Br. Mus. (Nat. Hist.) 15773, holotype] in occlusal and lateral view. c, Right dentary of *C. torresi* [UM 66143] with  $M_{2-3}$  in occlusal and lateral view. d, Right maxilla of *C. torresi* with  $M^{1-2}$  in lateral and occlusal view. Note the short *Namespiter* fold of enamel running up the posterior surface of the protocone in occlusal view. This enamel fold does not join the postcingulum, and the earliest *Cantius* lacks a fully developed postprotocingulum.

1.8 mm in maximum breadth. The crown of  $P_4$  is more complex, with a well-developed paraconid and metaconid in addition to the central protoconid. The metaconid is medial to the protoconid, making the trigonid unusually broad. The talonid on  $P_4$  is also broad, with a prominent central cristid obliqua and shallowly basined posteromedial corner.  $P_4$  is 2.8 mm long and 2.4 mm in maximum breadth. The crown of  $M_1$  is tritubercular with three distinct trigonid cusps and a broadly basined talonid.  $M_1$  is 3.3 mm long and 2.9 mm in maximum breadth. The crown of  $M_2$  is partially preserved in two specimens (UM 66143 and 83467), both are small, measuring  $3.4 \times 3.2$  mm and  $3.2 \times 3.1$  mm in length and width, respectively. The crown of  $M_3$ , preserved in UM 66143 has a short trigonid, with paraconid and metaconid cusps closely appressed (Fig. 1c).  $M_3$  is 4.3 mm long and 2.7 mm in maximum breadth. The talonid of  $M_3$  resembles that in other early *Cantius* species in having a very narrow hypoconal lobe (1.5 mm broad).

Upper molars are preserved intact in one specimen (UM 83475; Fig. 1d). The crowns of both  $M^1$  and  $M^2$  are relatively square by comparison with later species of *Cantius*; both have prominent protocones, distinct paracones and metacones, and small but distinct paracristids and metaconules. There is a crest behind the protocrista representing a 'Namespiter fold' or partially developed postprotocingulum as in other primitive adapids and omomyids. In later Adapidae this crest is either reduced and lost (*Donrussellia*, *Protadapis*) or it is expanded

# New Eocene Primate Genus Cantius Revis

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