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ADDITIONAL SPECIMENS OF *BOHRA* (MARSUPIALIA: MACROPODIDAE) FROM THE PLIOCENE OF QUEENSLAND. *Memoirs of the Queensland Museum* 51(1): 26. *Bohra paulae* Flannery & Szalay, 1982 was erected for a macropodine taxon considered to be a giant tree kangaroo. Holotype AMF62099, a large calcaneum, has relative dimensions found only in dendrolagin taxa (Flannery & Szalay, 1982) including the ratio of relative height (h) to width (w) of the calcaneal-cuboid articulation (cca) (Flannery & Szalay, 1982; 84, Table 1) and relative calcaneal length (cl) to calcaneal tuberosity length (ctl) (Flannery & Szalay, 1982; 87, Table 3). Dentition in the type species is unknown.

Dawson (2004) described *Bohra wilkinsonorum* from the Pliocene, Chinchilla Sands, south east Queensland, based on a juvenile right maxillary fragment (QMF43277). Dentition shows features plesiomorphic within Dendrolagini and given its much larger size than *Dendrolagus*, it was considered to be *Bohra*. Recent discovery of *Bohra* from Chinchilla is intriguing because of a long history of collecting and abundance of macropodid material recovered (Rich, 1991; Hocknull, pers. obs.). Hocknull (2005) identified *Bohra* from the Early Pliocene of Mt Etna, central eastern Queensland, basing identification on a calcaneum which has relative dimensions similar to *B. paulae* but smaller in size. Audit of Chinchilla collections at the Queensland Museum was made to determine the additional material referable to members of the Dendrolagini. A calcaneum confirms the presence of *Bohra* in the Chinchilla Local Fauna. Abbreviations used in the text: AMF (Australian Museum Fossil); QMF (Queensland Museum Fossil).

Description. (Fig. 1) QMF49453; right calcaneum bearing a stout calcaneal tuberosity, broad astragular-fibular articulation, shallow and narrow calcaneal-cuboid articulation, and broad rugose, plantar surface. Posterior medial and lateral margins of the tuberosity abraded, ventral portion of the calcaneal-cuboid articulation missing to the plantar surface. Dimensions cl: 43.64mm; ccaw: 18.72mm; ccch: 11.31mm (est.); calcaneal-astragular articulation length: 21.01mm.

Remarks. QMF49453 is similar in morphology to *Bohra paulae* except it is approximately 20% smaller. QMF49453 differs from *Bohra paulae* by a relatively narrower cca (e.g. ccch/ccaw; QMF49453, 0.604 versus *Bohra paulae*, 0.686

and species of *Dendrolagus* 0.601-0.702); and a relatively longer ct (e.g. ctl/cl; QMF49453, 0.481 versus *Bohra paulae*, 0.442 and species of *Dendrolagus* 0.46-0.512 (data from Flannery & Szalay, 1982)). QMF49453 is most similar to *Bohra* sp. (QMF51762) from Mt Etna but differs by a relatively narrower fibular-calcaneal articulation.

A low representation of *Bohra* within the Chinchilla Local Fauna (1 calcaneum, 1 maxilla) is apparent when compared to other macropodids (68 or more calcanea; 120 or more maxillae) from Chinchilla. This may explain why *Bohra* has not been previously recorded from Chinchilla. A greater representation of dendrolagin calcanea in the Early Pliocene Mt Etna Local Fauna is due to the abundance of *Dendrolagus* (Hocknull, 2005). Yet *Bohra* remains rare in both Queensland sites. Representation of *Bohra* from the type locality is unknown due to the uncertainty surrounding its stratigraphic context. Flannery & Szalay (1982) considered *Bohra paulae* not to be a rainforest taxon, however, it probably inhabited wooded areas due to its size and hypothesised arborealism. Dawson (2004) considered *Bohra* to be plesiomorphic to *Dendrolagus*, possessing a broad ecological tolerance and inhabiting a mosaic of vegetation including forest and open woodlands. Hocknull (2005) identified *Bohra* sp. as sympatric with *Dendrolagus* and other specialist taxa inhabiting rainforest. Considered together, *Bohra* represents a rare taxon with possible specialisations for arborealism, whilst possessing a broad habitat tolerance throughout the Plio-Pleistocene.

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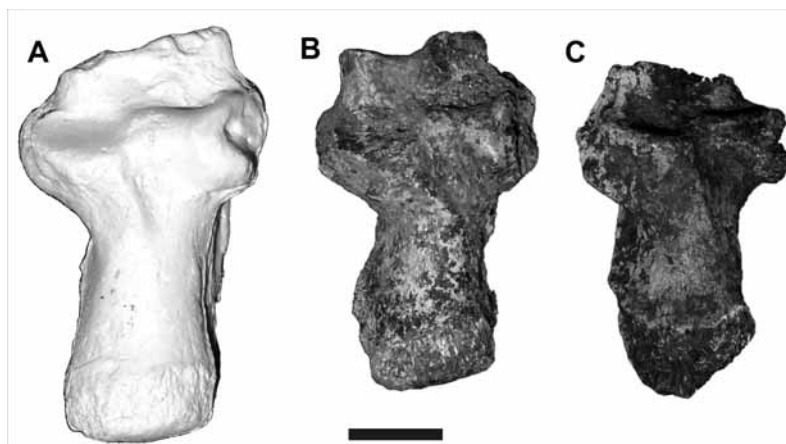


FIG 1. A, *Bohra paulae*, right calcaneum (cast of AMF62099). B, *Bohra* sp.; QMF51762, right calcaneum. C, *Bohra* sp.; QMF49453, right calcaneum. Scale bar = 10mm.