

An aberrant amphicyonid mammal from the latest Eocene of the Bose Basin, Guangxi, China

Zhai Renjie, Russell L. Ciochon, Tong Yongsheng, Donald E. Savage, Michael Morlo, Patricia A. Holroyd, and Gregg F. Gunnell
Acta Palaeontologica Polonica 48 (2), 2003: 293-300

A new genus and species of an amphicyonid from the Bose Basin of Guangxi, south China, is short-jawed with relatively bunodont cheek teeth that are characterized by reduction in cusp number. This taxon is the oldest record of an amphicyonid from south Asia and possibly for all of Asia. Despite its antiquity, it is derived in the development of brachygnathy and differs from other early amphicyonids that have shortened faces. Evidently brachygnathy was established in this species without loss of p1-2 or m2-3, which became single-rooted from a primitive double-rooted condition.

Key words: Carnivora, Amphicyonidae, Eocene, Bose Basin, Nadu Formation.

Zhai Renjie, Tong Yongsheng, Institute of Vertebrate Paleontology and Paleoanthropology, Academia Sinica, Beijing, 100044, People's Republic of China; Russell L. Ciochon [russell-ciochon@uiowa.edu], Department of Anthropology, University of Iowa, Iowa City, Iowa 52242-1322, USA (corresponding author); Donald E. Savage, Patricia A. Holroyd [pholroyd@uclink4.berkeley.edu], Museum of Paleontology, 1101 Valley Life Sciences Building, University of California, Berkeley, California 94720-4780, USA; Michael Morlo [Michael.Morlo@senckenberg.de], Forschungsinstitut Senckenberg, Abteilung Messelforschung, Senckenberganlage 25, 60325 Frankfurt am Main, Germany; Gregg F. Gunnell [ggunnell@umich.edu], Museum of Paleontology, University of Michigan, Ann Arbor, Michigan 48109-1079, USA. Donald E. Savage passed away on April 5, 1999.

This is an open-access article distributed under the terms of the Creative Commons Attribution License (for details please see creativecommons.org), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

 [Full text \(519.4 kB\)](#)