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SUPPLEMENTARY ONLINE MATERIAL FOR

A new record of a giant neopiblemid rodent from Peruvian Amazonia and an overview of lower tooth dental homologies among chinchilloids

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Supplementary Online Material

SOM. Extinct and extant caviomorph taxa used for comparisons in the context of analyses for the recognition of the homologies of lower teeth in *Phoberomys*. Based on Boivin and Marivaux (2018).

Boivin, M. and Marivaux, L. 2018. Dental homologies and evolutionary transformations in Caviomorpha (Hystricognathi, Rodentia): new data from the Paleogene of Peruvian Amazonia. *Historical Biology* [published online <https://doi.org/10.1080/08912963.2018.1506778>]

Genus	Species	Locality and/or Formation (Fm.)	Age	Observed material (original or cast)	Primary references
<i>Neoeublema</i>	<i>N. ambrossetianus</i>	Niterói locality (Solimões Fm.), Brazil	late Miocene	UFAC (original)	Kerber et al. 2017
	<i>N. horridula</i>	Cachoeira do Bandeiro & Talismã localities (Solimões Fm.), Brazil	late Miocene		Kerber et al. 2017
<i>Eumegamys</i>	<i>E. paranaensis</i>	Solimões Fm., Brazil; Parana Fm. and Ituzaingó Fm., Argentina	late Miocene		Nasif et al. 2013
<i>Gyriastis</i>	<i>G. holmbergi</i>	Ituzaingó Fm., Argentina	late Miocene		Nasif et al. 2013
<i>Isoctymys</i>	<i>I. laurillardii</i>	Rio de La Plata (Camacho Fm.), Uruguay; Parana Fm., Argentina	late Miocene		Rinderknecht et al. 2018
<i>Tetrastylus</i>	<i>T. laevigatus</i>	Ituzaingó Fm., Argentina	late Miocene		Nasif et al. 2013
<i>Chinchilla</i>	<i>C. lanigera</i>		Recent	MLP (original)	
<i>Lagidium</i>	<i>L. viscacia</i>		Recent	MLP & MNHN (original)	
<i>Dinomys</i>	<i>D. branickii</i>		Recent	MNHN (original)	Nasif and Abdala 2015
Cavioidea					
<i>Branisamys</i>	<i>B. luribayensis</i>	Salla (Salla Beds), Bolivia	late early Oligocene – late Oligocene	MNHN-Bol, MNHN & UM (original)	Hoffstetter and Lavocat 1970; Lavocat 1976; Patterson and Wood 1982
<i>Asteromys</i>	<i>A. punctus</i>	Cabeza Blanca (Sarmiento Fm.), Argentina	late early Oligocene – late Oligocene	MACN (original)	Ameghino 1887; Wood and Patterson 1959; Pérez et Vucetich 2012
<i>Australoprocta</i>	<i>A. fleagei</i>	Bryn Gwyn, Sacanana (Sarmiento Fm.) and Paso Córdoba (Chinchinales Fm.), Argentina	early Miocene		Kramarz 1998; Vucetich et al. 2010b
<i>Neoreomys</i>	<i>N. australis</i>	Santa Cruz Fm. and Pinturas Fm. (for the list of localities, see Kramarz 2006), Argentina; Pampa Castillo (unnamed Fm.), Chile	late early Miocene	MACN & MLP (original)	Ameghino 1887; Kramarz 2006; Flynn et al. 2002; Candela et al. 2012; Kay et al. 2012
<i>Luanus</i>	<i>L. propheticus</i>	Pinturas Fm. (for the list of localities, see Kramarz, 2006), Argentina	late early Miocene		Kramarz 2006
<i>Dasyprocta</i>	<i>D. sp.</i>		Recent	MLP & UM (original)	
<i>Cuniculus</i>	<i>C. paca-taczanowskii</i>		Recent	UM (original)	
<i>Cavia</i>	<i>C. aperea</i>		Recent	MLP (original)	
<i>Galea</i>	<i>G. spixii</i>		Recent	MNHN (original)	
<i>Dolichotis</i>	<i>D. patagonum</i>		Recent	UM (original)	
<i>Hydrochoerus</i>	<i>H. hydrochaeris</i>		Recent	MLP & MNHN (original)	
Incertain sedis extinct superfamily					
<i>Litodontomys</i>	<i>L. chubutomys</i>	Cabeza Blanca (Sarmiento Fm.), Argentina	late early Oligocene – late Oligocene		Loomis 1914; Wood and Patterson 1959
<i>Cephalomys</i>	<i>C. arcidens</i>	Cabeza Blanca and La Flecha (Sarmiento Fm.), Argentina	late early Oligocene – late Oligocene	MNHN (original)	Ameghino 1897; Wood and Patterson 1959
" <i>Asteromys</i> "	" <i>A.</i> " <i>bolivianus</i>	Salla (Salla Beds), Bolivia	late early Oligocene – late Oligocene	MNHN-Bol, MNHN & UM (original)	Lavocat 1976; Patterson and Wood 1982; Pérez et al. 2018
<i>Sorianus</i>	<i>S. gaimanensis</i>	Bryn Gwyn (Sarmiento Fm.), Argentina	early Miocene		Kramarz 2001c; Vucetich et al. 2010b

Fm., Formation; INGEMMET, Instituto Geológico Minero y Metalúrgico, Lima; MACN, Museo Argentino de Ciencias Naturales, Buenos Aires; MLP, Museo de Ciencias Naturales de La Plata; MUSM, Museo de Historia Natural de la Universidad Nacional Mayor San Marcos, Lima; MNHN-Bol, Museo Nacional de Historia Natural, La Paz, Bolivia; MNHN, Muséum National d'Histoire Naturelle, Paris; UFAC, Laboratorio de Pesquisa Paleontológica, Universidade Federal do Acre; UM, Université de Montpellier.