

Systematic and biostratigraphic significance of a chinchillid rodent from the Pliocene of eastern Argentina

Luciano Luis Rasia and Adriana Magdalena Candela


Acta Palaeontologica Polonica 58 (2), 2013: 241-254 doi: <http://dx.doi.org/10.4202/app.2011.0041>

Two species of chinchillid rodents, *Lagostomus (Lagostomopsis) incisus* and “*Lagostomus (Lagostomopsis) spicatus*”, have been recorded from the Monte Hermoso Formation (Montehermosan–Lower Chapadmalalan, Early Pliocene) of southern Buenos Aires Province, eastern Argentina. *L. (L.) incisus* is based on skull remains, while “*L. (L.) spicatus*” is based on mandible remains and fragmentary skulls. Detailed study of specimens recovered from the upper section of the Monte Hermoso Formation, from the Irene “Formation”, and the Chapadmalal Formation (late Early–early Late Pliocene, Buenos Aires Province), some of them represented by associated skull and mandible remains, indicates that *L. (L.) incisus* and “*L. (L.) spicatus*” are synonymous, with the valid name being *L. (L.) incisus*. The differences between both nominal species are here attributed to different ontogenetic states and sexual dimorphism. The stratigraphic provenance of the fossil material of *L. (L.) incisus* indicates a temporal distribution of this species restricted to the Montehermosan?–Chapadmalalan (Early–early Late Pliocene), instead of the Montehermosan (Early Pliocene).

Key words: Mammalia, Rodentia, Caviomorpha, Chinchillidae, systematics, biostratigraphy, Pliocene, Argentina.

Luciano Luis Rasia [lucianorasia@hotmail.com] and Adriana Magdalena Candela [acandela@museo.fcnym.unlp.edu.ar], División Paleontología Vertebrados, Museo de La Plata, Paseo del Bosque s/n, B1900FWA La Plata, Argentina.

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 \(675.6 kB\)](#) |

 [Supplementary file \(20.1 kB\)](#)