Establishing the availability of the sigmodontine binomen

**Geoxus lafkenche** (Rodentia, Supramyomorpha, Cricetidae)

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The sigmodontine species name **Geoxus lafkenche** proposed by Teta and D’Elía (2016) is unavailable, given that the publication where it originally appears did not satisfy the requirements of the International Code of Zoological Nomenclature. In this note we establish the availability of the species name **Geoxus lafkenche**, by fulfilling those requirements.

El nombre de la especie sigmodontina **Geoxus lafkenche**, propuesto por Teta and D’Elía (2016), no está disponible, dado que la publicación donde el mismo fue propuesto no cumplió todos los requisitos del Código Internacional de Nomenclatura Zoológica. En esta nota establecemos la disponibilidad del nombre de la especie **Geoxus lafkenche**, cumpliendo esos requisitos.

**Keywords:** Abrotrichini; Chile; Taxonomy; Sigmodontinae.

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**Introduction**

In 2016, Teta and D’Elía published a revision of the genus **Geoxus** Thomas 1919, proposing a new species, **Geoxus lafkenche**, for the population from Guao island, a small Pacific island in the Región de Los Lagos, Chile. The study was published in an electronic only journal. The Fourth Edition of the International Code of Zoological Nomenclature (ICZN 1999) and the Amendment on e-publication (ICZN 2012) establish that to be available, taxonomic names proposed in works that are issued and distributed electronically, must be registered in the Official Register of Zoological Nomenclature (Zoobank) prior to publication, and must include evidence of registration within the work itself. This is most often is done by providing the ZooBank Life Science Identifier (LSID) for the publication. In addition, the ZooBank registration record must include an ISSN for the journal, and an intended online archive. None of these requirements were satisfied in the publication by Teta and D’Elía (2016), where the new binomen **Geoxus lafkenche** was presented. As such, the name is not available. However, all the conclusions reached by Teta and D’Elía (2016) about species limits remain valid.

The objective of this note is to comply with the provisions of The International Code of Zoological Nomenclature (ICZN 1999, 2012) to make the name **Geoxus lafkenche** available. The information provided below was taken from Teta and D’Elía (2016). This published work and the nomenclatural act it contains have been registered in ZooBank. The LSID for this publication is: urn:lsid:zoobank.org:act:db251699-c242-4f5e-abf9-1943343d5647 (Figure 1)

**Holotype:** UACH 7339 (original number GD 1512 collected by Héctor Pavez in January 2012), an adult female preserved as skull, body in fluid, and tissue sample in alcohol. A partial (785 bp) DNA sequence of the cytochrome-b gene gathered from this specimen was deposited in Genbank with accession number KU904314.

**Type locality:** Punta Weather, Isla Guao, Región de Los Lagos, Chile (-43° 34.000', -74° 49.500').

**Distribution:** only known from the type locality.

**Morphological diagnosis:** A large species of the genus **Geoxus** (length of head and body ~106 mm, skull length ~29.5 mm), characterized by its small ears (~12 mm), relatively long tail (~66.5 mm), and small molar teeth; pelage somewhat coarse and uniformly dark brown, slightly paler at the venter; skull elongate and fragile, with scarcely flaring zygomatica; nasals and premaxillae trumpeted; zygomatic plate inclined with a nearly convex anterior border; upper zygomatic root broad, larger than to a half of the anteropos-
Measurements of the paratype: External measurements (in mm): TL, 66; HF (with claw), 14; HF (without claw), 11; E, 12.0. Cranial measurements (in mm): SL, 28.65; CIL, 26.01; ZB, 12.51; BB, 12.75; PalL, 11.47; IL, 5.16; IW, 1.37; DL, 7.27; TRL, 3.80; PWM1, 5.12; PWM3, 4.68; ZW, 1.45; NL, 11.40; NW, 3.16; RW, 4.24; FSW, 6.34; IB, 5.35; FL, 9.07; ParL, 5.73; MB, 1.35.

Final remarks
The morphological comparisons of Geoxus lafkenche n. sp. with the other species of the genus Geoxus (i.e., G. annectens, G. michaelseni, and G. valdivianus) and their phylogenetic relationships can be found in Teta and D’Elía (2016). The year of availability of G. lafkenche n. sp. is 2020 and as such must be referred in future works.

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Literature cited

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AVAILABILITY OF THE NAME GEOXUS LAFKENCHE