

Systematic revision of *Afrogecko ansorgii* (Boulenger, 1907) (Sauria: Gekkonidae) from western Angola.

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Abstract

Here we provide the first phylogenetic analysis that include *Afrogecko ansorgii* and a detailed morphological comparison with other species of leaf-toed geckos. For this purpose, we used two mitochondrial (16S, ND2) and four nuclear (RAG1, RAG2, CMOS, PDC) genes to produce a robust phylogenetic reconstruction. This allowed us to show that *A. ansorgii* is not related as previously believed to circum-Indian Ocean leaf-toed geckos and is rather more closely related to other Malagasy leaf-toed geckos. Additionally, we explore and compare osteological variation in *A. ansorgii* skulls through High Resolution X-ray Computed Tomography with previously published material. This allowed us to describe herein a new genus, *Bauerius* gen. nov., and additionally provide a detailed redescription of the species (including the first description of male material), supplementing the limited original description and type series, which consisted of only two females.