

An updated phylogeny and morphological study of the *Phymaturus vociferator* Glade (Iguania: Liolaemidae)

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Abstract

Species delimitation in *Phymaturus* has been a difficult task due to the highly conserved morphological and ecological features present in this genus. Almost all species of *Phymaturus* have been described without DNA data or lacking statistical analyses which makes even more difficult to compare species. Although two molecular phylogenetic studies have been recently published, here we provide the first multilocus phylogenetic reconstruction including all Chilean species, with samples from all type localities and some previously unsampled populations. We also estimate pairwise distances among the Chilean species of *Phymaturus* (*P. vociferator* and *P. mallimaccii* clades) and compare our results with the *P. payunia* Glade, where previous studies have used multiple lines of evidence. Additionally, we performed univariate and multivariate morphological analyses and skeletal comparisons (clavicle) for the species of the *P. vociferator* Glade. As a result of this integrative approach, we describe a new species.

Palabras clave

Palabras clave de autor: [lizard](#); [Phymaturus palluma](#); [Chile](#); [Andes](#); [multilocus](#); [new species](#)

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