

# Genetic divergence in the endangered frog *Insuetophrynus acarpicus* (Anura: Leptodactylidae)

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*Insuetophrynus acarpicus* is a poorly known frog restricted to the temperate forests of the coastal range of Chile (39° 25' S, 73° 10' W). Until recently, this species was known only from one type locality since its original description in 1970. However, in 2002 two new localities were reported, extending its distribution range to about 40 km<sup>2</sup>. In order to evaluate genetic divergence, provide a preliminary evaluation of the genetic diversity of this species and the phylogenetic relationships among individuals from the three known populations, we analyzed the nucleotide variation of a fragment of the mitochondrial gene cytochrome b. We sampled just two or four individuals per population of this endangered frog. We found a low nucleotide divergence among populations suggesting a genetic homogeneity across the entire range. This highlights the need for further studies to define the conservation status of this endangered frog.