





Description of a new species of *Euglossa* (Hymenoptera: Apidae: Euglossini) with notes on comparative biology

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Abstract

Here, we describe *Euglossa rufipes* Rasmussen & Skov sp. nov. from remnants of Andean rainforest in western Peru and Ecuado r. The species closely resemble sasarophora Moure & Sakagami, but males can be distinguished by the red color of the h ind tibia and by genital characters. We summarize the known biological information for both species.

Key words: crypti c species, orchid bees, pollination, chemical bait s

Introduction

Euglossini, the orchid bees, is a tri be of long-tongued pollinators foun d only in the New World. The nest-buil ding females have a corbicula, a basket-like structure on the hind tibia for carrying nest material and provisions, which groups the orchid bees with the honey bees, stingless bees, and bumble bees in the "corbiculate" Apinae clade (Hymen optera: Apidae) (Michener 2000). Male orchid bees have unique mor phological features on the legs that are used to collect scents from orchids and other sources. The scents are stored in the highly modified hind tibia and most likely used in relation to mating (Bembé 2004, Eltz *et al.* 2005a). Males can be attracted to artificial scent baits, a technique widely used since its discovery (Dodson *et al.* 1969) and which has resulted in the collection and description of many new species (taxo nomic papers cited in Roubik and Hanson 2004).

The tri be encompasses almost 200 described species divi ded into five genera (Michener 2000, Cameron 2004) with generic relationshi ps hypothesized by Michel-Salzat *et al.* (2004). The genus *Euglossa* accounts for more than 50% of the species diversity and is sometimes divided into six subgenera (e.g., Ramír*etzal.* 2002, Cameron

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