

The description of *Preseucoela* Buffington, new genus, with notes on the status of Nearctic species of *Agrostocynips* Diaz (Hymenoptera: Figitidae: Eucoilinae)

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Abstract

The eucoiline genus *Preseucoela* Buffington is described. Also provided is a redescription of *Preseucoela pallidipes* (Ashmead), **new combination**, and the descriptions of *Preseucoela heratyi* Buffington, **new species**, and *Preseucoela imallshookupis* Buffington **new species**. One definitive rearing record was found, and indicates hosts for species of *Preseucoela* are agromyzid flies. *Agrostocynips* Diaz, another eucoiline genus parasitic on agromyzids, is discussed. *Agrostocynips robusta* (Ashmead), **new combination**, and *Agrostocynips diastrophii* (Ashmead), **new combination**, are proposed, raising the number of recognized species of *Agrostocynips* to four, and expanding the range of *Agrostocynips* into central North America.

Key words: *Preseucoela*, *Agrostocynips*, Eucoilinae, Figitidae, Cynipoidea, Agromyzidae, new species, new genus, new combination

Introduction

Species of Eucoilinae (Hymenoptera: Figitidae) are parasitoids of Cyclorrhapha (Diptera). Two lineages, the *Gronotoma* group of genera and *Zaeucoila* group of genera (*sensu* Fontal-Cazalla *et al.* 2002) specialize on the leaf-miner family Agromyzidae. Members of these groups have a peculiar habitus, including a compact meso- and metasoma and often possessing distinctive sculptural elements on the mesoscutum and scutellum. Due to these features, most genera in these groups are readily identifiable.

Examination of eucoiline specimens housed in several different museums uncovered three series of specimens representing a new genus and three species (2 new to science) in the *Zaeucoila* group, which are described here. Further examination of type material from the USNM and CASC revealed previously unknown synonymies and new combinations