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## Systematics of *Phasia* Latreille (Diptera: Tachinidae)

XUEKUI SUN & STEPHEN A. MARSHALL



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## Abstract

The genus *Phasia* (Diptera, Tachinidae) is redefined and the world species (excluding Neotropical species) are revised. Six species-groups are defined, and seventy-five species are described or redescribed, including 31 new species. Revised host lists and distribution maps are given.

Fifteen generic names are treated as new synonyms of *Phasia*: *Akosempomyia* Villeneuve, *Alophorophasia* Townsend, *Androeuryps* Beneway, *Besserioides* Curran, *Bogosiella* Villeneuve, *Campbellia* Miller, *Efftayloria* Malloch, *Epaulophasia* Townsend, *Heyneophasia* Townsend, *Kosempomyia* Villeneuve, *Paraphasiana* Townsend, *Tayloria* Malloch, *Trichophasia* Townsend, *Xanthotrichius* Townsend and *Xiphophasia* Townsend.

The following new species are described: *Phasia africana*, *P. australiensis*, *P. brachyptera*, *P. cana*, *P. clavigralla*, *P. bifurca*, *P. cylindrata*, *P. distincta*, *P. faceta*, *P. frontata*, *P. furcata*, *P. japonensis*, *P. kuodi*, *P. lauta*, *P. malaisei*, *P. malayana*, *P. mathisi*, *P. minima*, *P. nigromaculata*, *P. rotundata*, *P. serrata*, *P. siberica*, *P. sichuanensis*, *P. singuliseta*, *P. subnitida*, *P. sumatrana*, *P. transvaalensis*, *P. triangulata*, *P. wangi*, *P. woodi* and *P. yunnanica*.

The following new synonyms are proposed: *P. umbrifera* (Wulp), *P. occidentalis* (Brooks), *P. opaca* (Coquillett), *P. polita* (Brooks), *P. alaskensis* (Brooks) and *P. umbrosa* (Wulp) are junior synonyms of *P. aeneoventris* (Williston); *P. nigra* (Brooks) is a junior synonym of *P. albipennis* (Brooks); *P. karczewskii* (Draber-Mońko) is a junior synonym of *P. aldrichii* (Townsend); *P. splendida* (Coquillett) and *P. meliceris* (Reinhard) are junior synonyms of *P. aurulans* Meigen; *P. cockaynei* (Miller) and *P. lancifer* (Malloch) are junior synonyms of *P. campbelli* (Miller); *P. peruviana* (Townsend), *P. pollinosa* (Brooks), *P. auricaudata* (Brooks) and *P. dimidiata* (Townsend) are junior synonyms of *P. chilensis* (Macquart); *P. basalis* (Malloch), *P. hyalis* (Malloch) and *P. nigrihirta* (Malloch) are junior synonyms of *P. lepidofera* (Malloch); *P. bancrofti* (Paramonov) is a junior synonym of *P. normalis* (Curran); *P. celer* (Townsend) and *P. argentifrons* (Brooks) are junior synonyms of *P. purpurascens* (Townsend); *P. fumosa* (Coquillett), *P. nitida* (Coquillett), *P. phasioides* (Coquillett), *P. pulvereae* (Coquillett), *P. furva* West and *P. brevineura* West are junior synonyms of *P. robertsonii* (Townsend); *P. chrysis* (Malloch), *P. aureiventris* (Curran), *P. costalis* (Malloch), *P. nigrisquama* (Malloch) and *P. discalis* (Malloch) are junior synonyms of *P. rufiventris* (Macquart); *P. lativentris* (Malloch) is a junior synonym of *P. sensua* (Curran).

A cladistic analysis of *Phasia*, based on fifty-one characters, is presented and the zoogeography of the genus is discussed.

**Key words:** *Phasia*, revision, phylogeny, zoogeography, new species.

## 1. Introduction

The Phasiinae, a large and morphologically diverse subfamily of Tachinidae, includes nine tribes according to Herting (1984). The genus *Phasia* Latreille, one of the largest genera in the subfamily Phasiinae, belongs in the tribe Phasiini and has a worldwide distribution. It is of particular interest to economic entomologists because *Phasia* species parasitize a