

List of parasitoids and their dipterous hosts collected in Brazil.

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Parasitoids are agents responsible for reducing the populations of flies that proliferate on dung, cadavers and animal carcasses. Because parasitoids occupy a higher trophic level, they often act as determinant factors for the population density of their hosts, consequent to their great diversity of physiological and behavioral adaptations. These insects are considered to be bioindicators of the biodiversity of ecosystems and are considered to be key species for maintaining the equilibrium of the communities in which they are included. In addition, since they are natural enemies of agricultural pests, they may be used in biological control programs.

The study was conducted on the following substrates:

Cattle dung, buffalo dung, human feces, cattle kidneys, cattle liver, fish, fruit

Studies on the Diptera and their parasitoids in Brazil: were selected according to the type of host in which natural enemies were found.

1- *Chrysomya albiceps* (Wiedemann) (Diptera: Calliphoridae).

Hemencyrtus sp. (Hymenoptera: Encyrtidae), *Nasonia vitripennis* (Walker)

(Hymenoptera: Pteromalidae) and *Pachycrepoideus vindemmiae* (Rondani)

(Hymenoptera: Pteromalidae).

2 - *Chrysomya megacephala* (Fabricius) (Diptera: Calliphoridae).

Brachymeria podagrica (Fabricius) (Hymenoptera: Chalcididae), *N. vitripennis* and *P. vindemmiae*

3 - *Cyrtoneurina paraescita* Couri (Diptera: Muscidae).

Paraganaspis egeria Diaz, Gallardo & Walsh (Hymenoptera: Figitidae), *P. vindemmiae*,

Spalangia cameroni Perkins (Hymenoptera: Pteromalidae), *Spalangia endius* Walker

(Hymenoptera: Pteromalidae), *Spalangia nigra* Latrielle (Hymenoptera: Pteromalidae),

Spalangia nigroaenea Curtis (Hymenoptera: Pteromalidae) and *Spalangia* sp.

(Hymenoptera: Pteromalidae).

4 - *Euboettcheria collusor* Curran et Walley (Diptera: Sarcophagidae).

Hemencyrtus sp.

5 - *Fannia pusio* (Wiedemann) (Diptera: Fanniidae).

Eurytoma (Hymenoptera: Eurytomidae), *P. vindemmiae*, *P. egeria* and *Spalangia drosophilae* Ashmead (Hymenoptera: Pteromalidae).

6 - *Hemilucilia flavifacies* Enderlein (Diptera: Calliphoridae).

B. podagrica and *Hemencyrtus herberti* Ashmead (Hymenoptera: Encyrtidae).

7 - *Musca domestica* L. (Diptera: Muscidae).

Hemencyrtus sp., *H. herberti*, *Muscidifurax raptor* Girault & Sanders (Hymenoptera: Pteromalidae) *N. vitripennis*, *P. vindemmiae*, *Spalangia* sp. (Hymenoptera: Pteromalidae), *S. cameroni*, *S. endius*, *S. nigra* and *S. nigroaenea*.

8 - *Oxysarcodexia thornax* (Walker) (Diptera: Sarcophagidae).

B. podagrica, *Gnathopleura quadridentata* Wharton (Hymenoptera: Braconidae), *Hemencyrtus* sp., *N. vitripennis*, *Neralsia espledens.*, *P. vindemmiae*, *S. endius*, *S. drosophilae*, *S. nigra*, *Tachinobia* sp. and *Trybliographa* sp.

9 - *Ophyra aenascens* (Diptera: Muscidae).

Tachinobia sp.

10 - *Ophyra* sp. (Diptera: Muscidae).

B. podagrica and *P. vindemmiae*.

11 - *Palaeosepsis* sp. (Diptera: Sepsidae).

Keidotoma nigra (Hartig) (Hymenoptera: Figitidae), *Muscidifurax* sp. (Hymenoptera: Pteromalidae), *P. egeria*, *S. cameroni*, *S. drosophilae*, *S. endius*, *S. nigra*, *S. nigroaenea*, *Spalangia* sp., *Trichopria* sp. (Hymenoptera: Diapriidae), *Triplasta atrocoxalis* Ashmead (Hymenoptera: Figitidae) and *Triplasta coxalis* Ashmead (Hymenoptera: Figitidae).

12 - *Peckia chrysostoma* (Wiedemann) (Diptera: Sarcophagidae).

Aphaereta sp. (Hymenoptera: Braconidae), *Brachymeria* sp. (Hymenoptera: Chalcididae), *B. podagrica*, *Hemencyrtus* sp., *G. quadridentata*, *N. vitripennis*, *P. vindemmiae*, *S.*

drosophilae and *S. endius*.

13 - *Ravinia belforti* Prado & Fonseca (Diptera: Sarcophagidae).

P. vindemmiae, *S. cameroni*, *S. nigra* and *S. nigroaenea*.

14 - *Sarcodexia lambens* (Diptera: Sarcophagidae).

Aphaereta sp., *B. podagrica*, *G. quadridentata*, *N. vitripennis*, *P. vindemmiae* and *S. ndius*..

15 - *Synthesiomyia nudiseta* (Wulp) (Diptera: Sarcophagidae).

Hemencyrtus sp. and *N. vitripennis*.