Natural enemies of Oxysarcodexia thornax (Walker) (Diptera: Sarcophagidae) collected in Brazil

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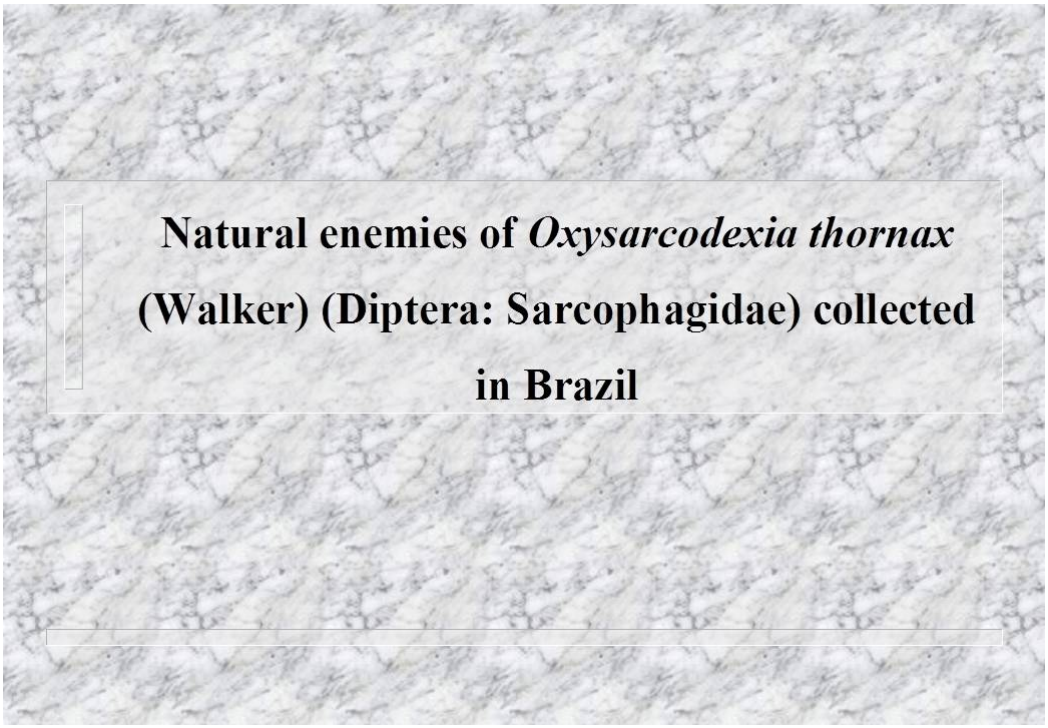
Paper presented at the Brazilian Congress of Zoology in the form of banner.



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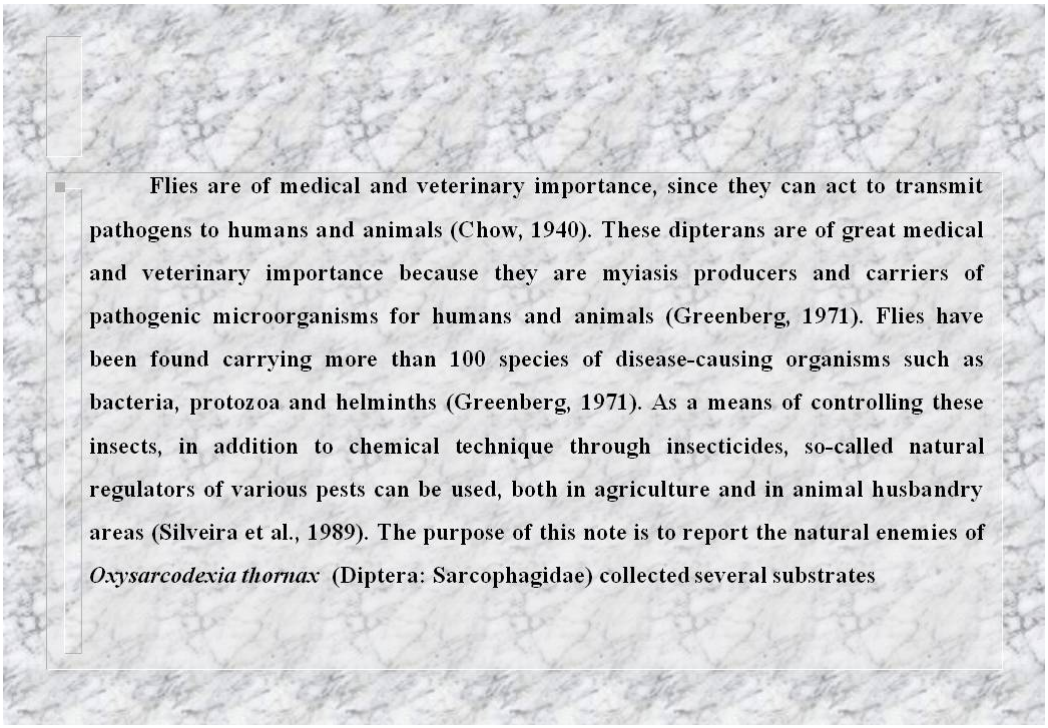

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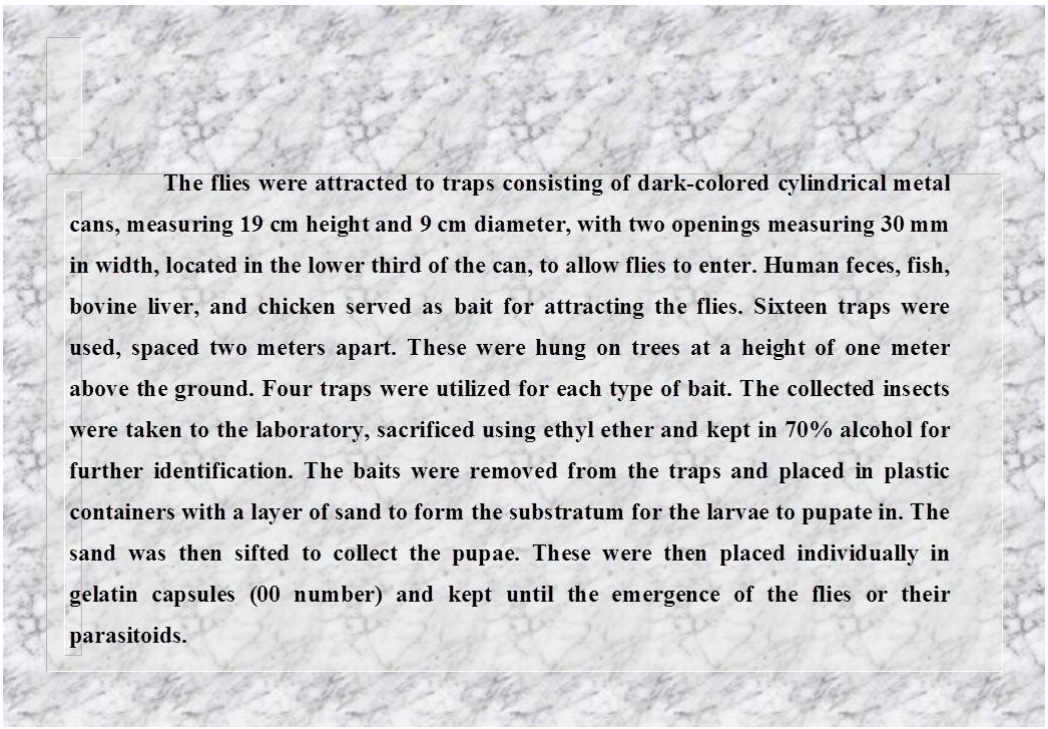

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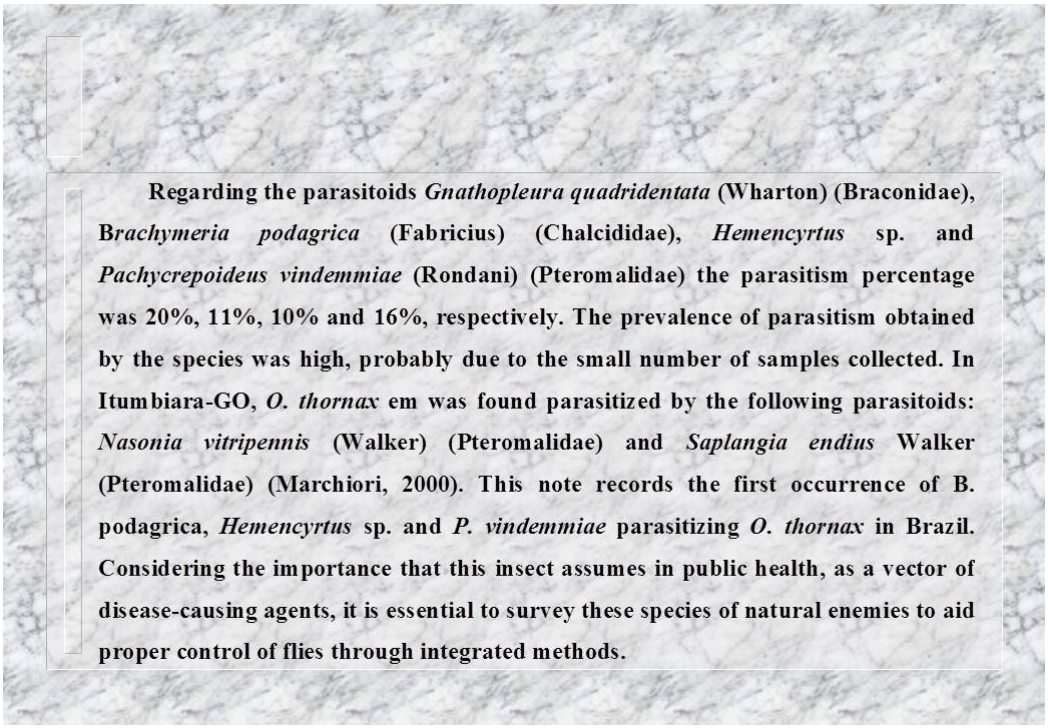
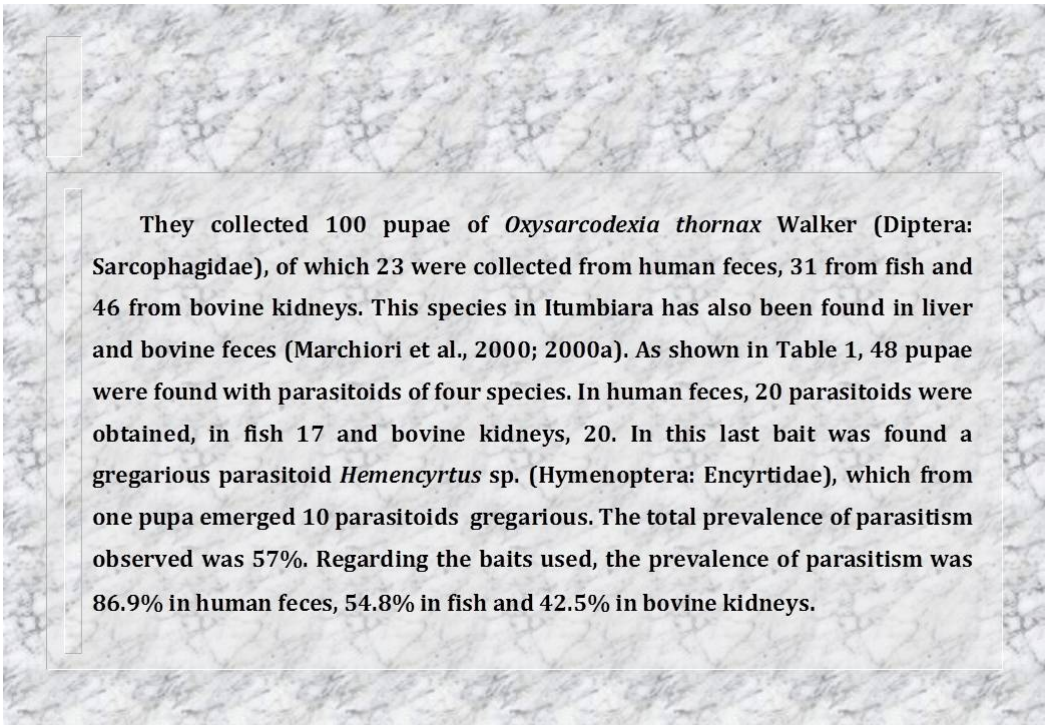


Regarding the parasitoids *Gnathopleura quadridentata* (Wharton) (Braconidae), B*rachymeria podagrica* (Fabricius) (Chalcididae), *Hemencyrtus* sp. and *Pachycrepoideus vindemmiae* (Rondani) (Pteromalidae) the parasitism percentage was 20%, 11%, 10% and 16%, respectively. The prevalence of parasitism obtained by the species was high, probably due to the small number of samples collected. In Itumbiara-GO, *O. thornax* em was found parasitized by the following parasitoids: *Nasonia vitripennis* (Walker) (Pteromalidae) and *Saplangia endius* Walker (Pteromalidae) (Marchiori, 2000). This note records the first occurrence of B. podagrica, *Hemencyrtus* sp. and *P. vindemmiae* parasitizing *O. thornax* in Brazil. Considering the importance that this insect assumes in public health, as a vector of disease-causing agents, it is essential to survey these species of natural enemies to aid proper control of flies through integrated methods.

Figure



They collected 100 pupae of *Oxysarcodexia thornax* Walker (Diptera: Sarcophagidae), of which 23 were collected from human feces, 31 from fish and 46 from bovine kidneys. This species in Itumbiara has also been found in liver and bovine feces (Marchiori et al., 2000; 2000a). As shown in Table 1, 48 pupae were found with parasitoids of four species. In human feces, 20 parasitoids were obtained, in fish 17 and bovine kidneys, 20. In this last bait was found a gregarious parasitoid *Hemencyrtus* sp. (Hymenoptera: Encyrtidae), which from one pupa emerged 10 parasitoids gregarious. The total prevalence of parasitism observed was 57%. Regarding the baits used, the prevalence of parasitism was 86.9% in human feces, 54.8% in fish and 42.5% in bovine kidneys.

Figure

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Figure

Table 1. List of parasitoids collected in *Oxysarcodexia thornax* (Diptera: Sarcophagidae) on various substrates.

Parasitoids	Number of specimens	Percentage
Braconidae:		
Gnathopleura quadridentata	20	35.0
Chalcididae:		
Brachymeria podagrica	11	19.3
Encyrtidae:		
Hemencyrtus sp.	10	17.5
Pteromalidae:		
Pachycrepoideus vindemiae	16	28.2
Total	57	-------

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