

Plan Overview

A Data Management Plan created using DMPTool

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Title: Biological and ecological aspects of *Sycobia hodites* Farache & Rasplus (Chalcidoidea: Pteromalidae), a newly introduced species in the Neotropical region

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Project abstract:

The present project will examine the biological and ecological aspects of *Sycobia hodites*, a wasp species associated with the exotic *Ficus benjamina*. We aim to determine the female oviposition period, oviposition location, offspring size in different fig crops and seasons, and the ratio of winged to brachypterous males relative to the size of the wasp progeny. The study will be conducted in two cities in the state of São Paulo, Brazil: Bauru (22° 18' S; 49° 3' W) and Ribeirão Preto (21° 10' S; 47° 49' W). The wasps' oviposition period will be assessed through an experiment that allows wasp access at different stages of fig development. Oviposition location will be determined using histological techniques, while offspring size will be evaluated by collecting

freshly fallen figs and counting the number of galls (i.e., estimating the number of wasps in the progeny). Understanding the biological and ecological aspects of *S. hodites* is vital due to the potential of this wasp as a biological control against a possible invasion of *F. benjamina* pollinating wasps.

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Biological and ecological aspects of *Sycobia hodites* Farache & Rasplus (Chalcidoidea: Pteromalidae), a newly introduced species in the Neotropical region - Description of Data and Metadata produced by the project

Data Creation and Collection

What data will be collected or created?

Data on the number and sex ratio of wasps associated with *Ficus benjamina* will be collected. Additionally, simulated data on sex ratios, according to various sex adjustment models, will be generated.

How data will be collected or created

Data collection will take place from trees planted in urban areas.
