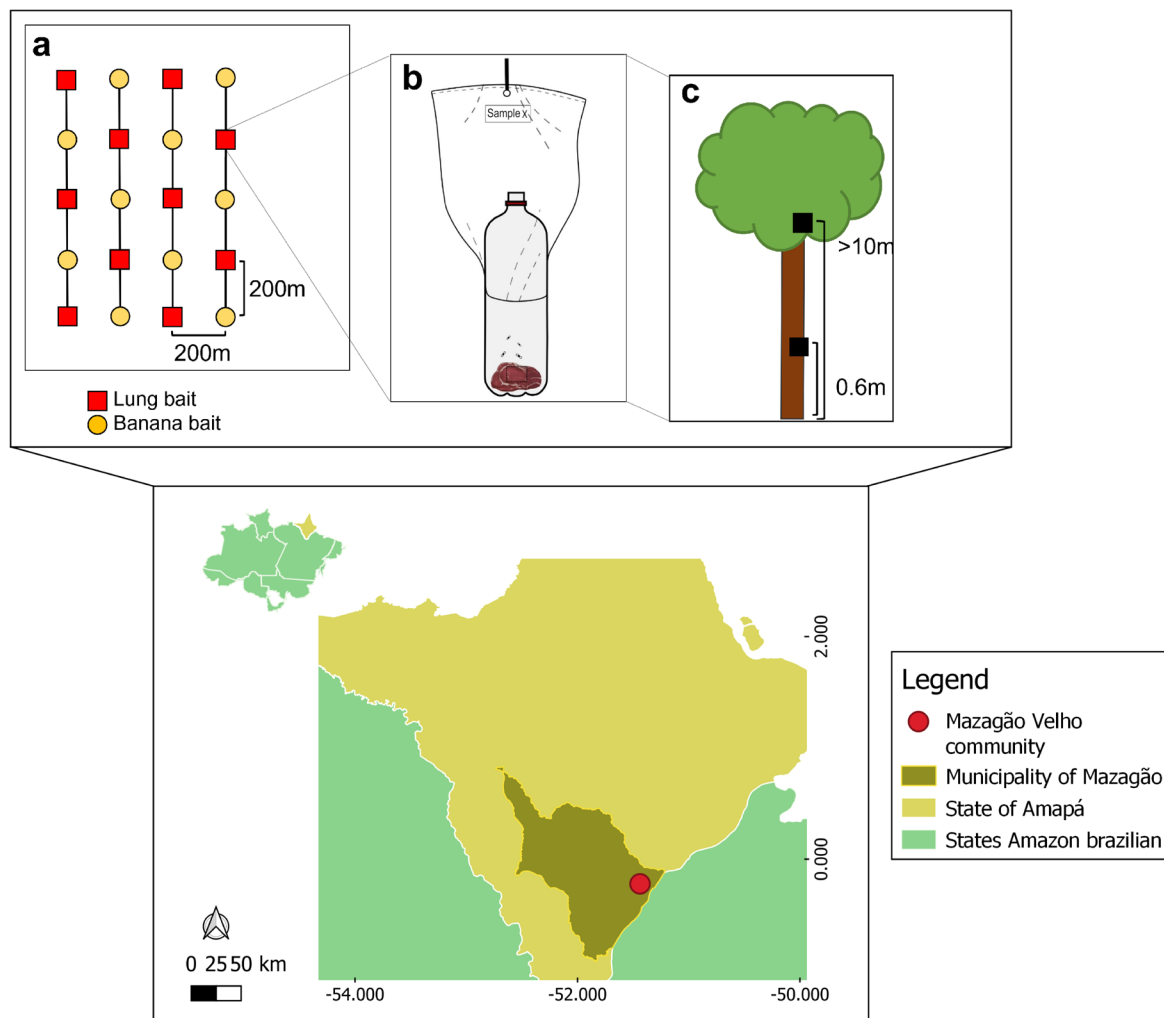
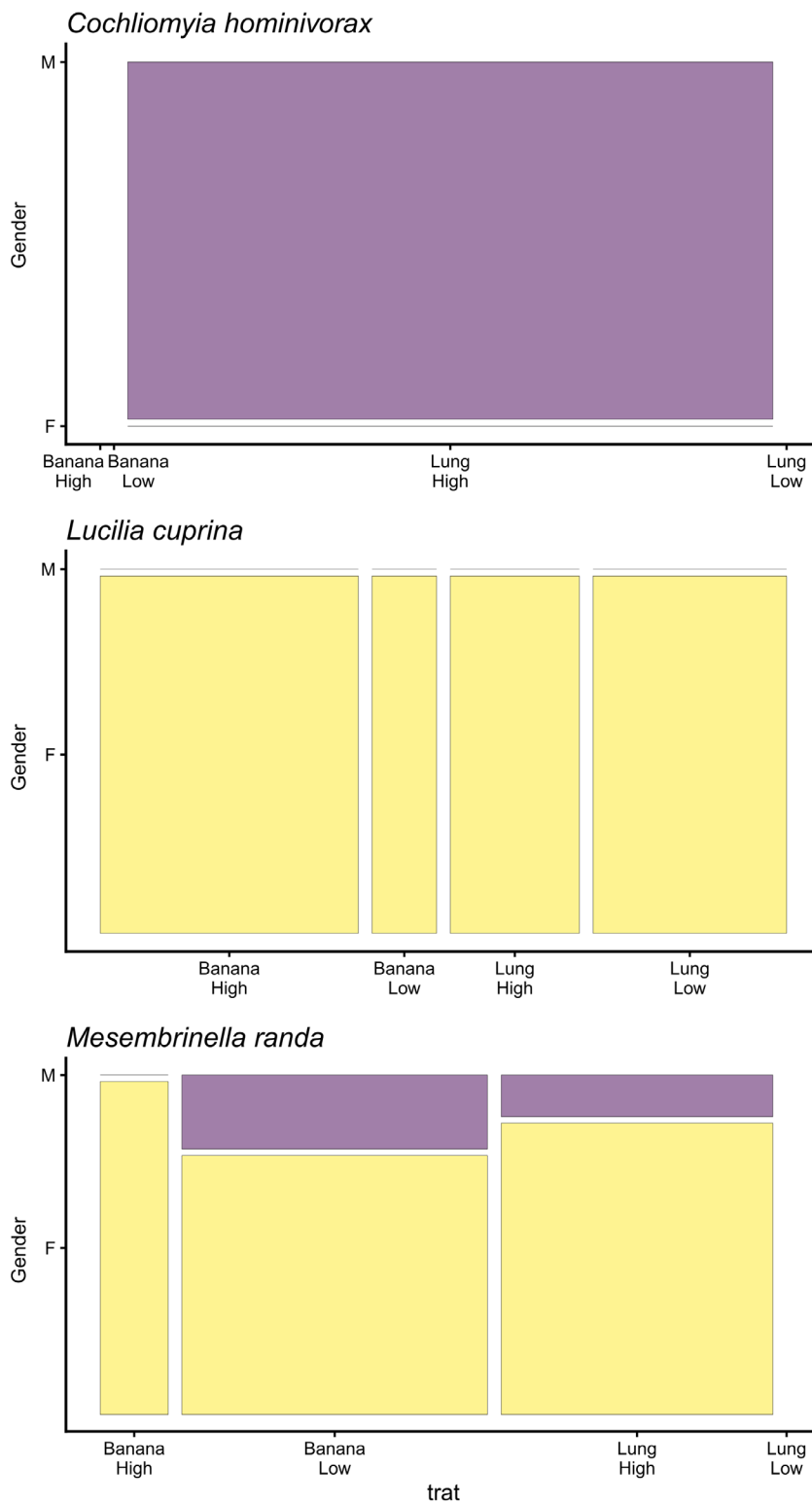


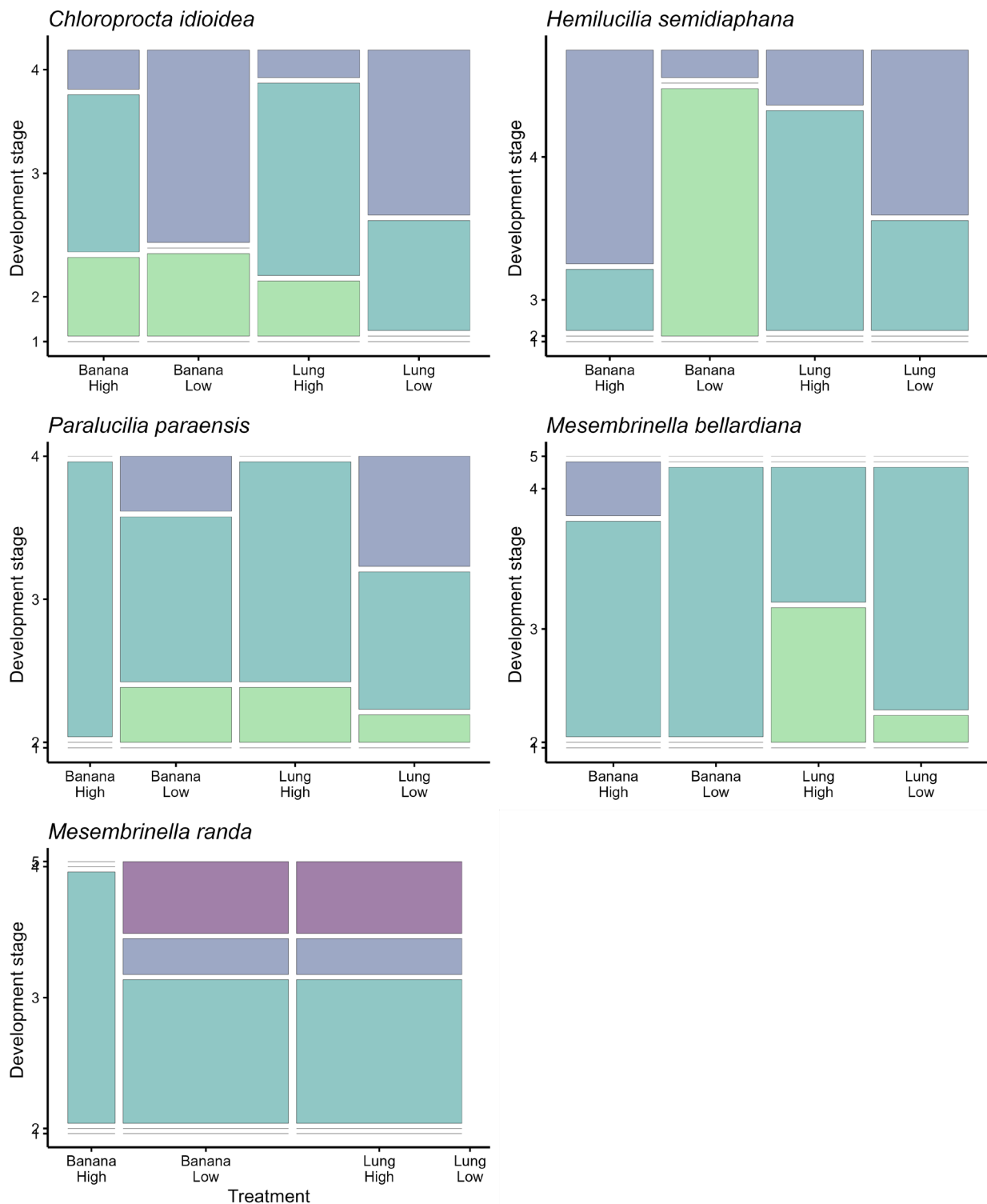
## SUPPLEMENTARY MATERIAL



**Figure S1.** Map of the study area with the sampling point in the community of Mazagão Velho in the municipality of Mazagão, Amapá, Brazil: (a) Experimental design organized in four trails with a minimum distance of 200m from each other, intercalating two types of baits: banana and bovine lung; (b) Schematic drawing of the trap used for collecting flies made from 2L plastic bottles (Ferreira 1978); (c) The tree has two traps: one at 0.6m from the ground (low) and another at 10m from the ground (high), containing the same type of bait in the traps.



**Figure S2.** Female (F) and males (M) of Calliphoridae species (*Cochliomyia hominivorax* and *Lucilia cuprina*) and Mesembrinellidae species (*Mesembrinella randa*) that were excluded from the sex ratio analyses due to the lack of registration of one of the sexes in the treatments (Table S1). The size of each block corresponds to the abundance of individuals in each category.



**Figure S3.** Species of flies from the Calliphoridae (*Chloroprocta idioidea*, *Hemilucilia semidiaphana* and *Paralucilia paraensis*) and Mesembrinellidae (*Mesembrinella bellardiana* e *Mesembrinella randa*) that were not included in the relationship between ovarian development phases (1 - Pre-Vitellogenesis, 2 - Initial Vitellogenesis, 3 - Final Vitellogenesis, 4 - Complete Vitellogenesis, and 5 - Gravid) because of insufficient developmental phases in the treatments. The size of each block corresponds to the abundance of individuals in each category.

**Table SI. Number of females of Calliphoridae and Mesembrinellidae dissected per species, by bait type, height, collection, and tree (randomly selected).**

| Family        | Species               | Bait   | Height | Collections | Trees | Females |
|---------------|-----------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C1          | A18   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C1          | A4    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C1          | A6    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C2          | A10   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C2          | A15   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C3          | A3    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | High   | C3          | A9    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C1          | A11   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C1          | A15   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C1          | A6    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C1          | A8    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C2          | A13   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C2          | A2    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C2          | A20   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C3          | A11   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C3          | A3    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Banana | Low    | C3          | A9    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C1          | A12   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C1          | A17   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C1          | A18   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C1          | A20   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C2          | A11   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C2          | A3    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C2          | A6    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C3          | A17   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C3          | A3    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | High   | C3          | A8    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C1          | A10   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C1          | A13   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C1          | A19   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C1          | A4    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C2          | A15   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C2          | A19   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C2          | A3    | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C3          | A16   | 1       |

**Table S1. Continuation.**

| Family        | Species               | Bait   | Height | Collections | Trees | Females |
|---------------|-----------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C3          | A19   | 1       |
| Calliphoridae | Chloroprocta_idioidea | Lung   | Low    | C3          | A6    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C1          | A3    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C1          | A5    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C1          | A6    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C1          | A7    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C2          | A14   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C2          | A20   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C2          | A5    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C3          | A19   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C3          | A3    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | High   | C3          | A4    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C1          | A1    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C1          | A11   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C1          | A16   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C1          | A3    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C2          | A5    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C2          | A6    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C2          | A8    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C3          | A15   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C3          | A16   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Banana | Low    | C3          | A17   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C1          | A13   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C1          | A15   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C1          | A5    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C1          | A6    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C2          | A10   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C2          | A18   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C2          | A7    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C3          | A15   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C3          | A16   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | High   | C3          | A9    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C1          | A13   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C1          | A14   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C1          | A2    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C1          | A3    | 1       |

**Table S1. Continuation.**

| Family        | Species               | Bait   | Height | Collections | Trees | Females |
|---------------|-----------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C2          | A16   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C2          | A20   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C2          | A9    | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C3          | A14   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C3          | A17   | 1       |
| Calliphoridae | Chrysomya_albiceps    | Lung   | Low    | C3          | A2    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C1          | A12   | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C1          | A5    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C1          | A7    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C1          | A8    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C2          | A16   | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C2          | A7    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C2          | A8    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C3          | A2    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C3          | A3    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | High   | C3          | A4    | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | Low    | C1          | A20   | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | Low    | C2          | A10   | 1       |
| Calliphoridae | Chrysomya_megacephala | Banana | Low    | C3          | A2    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C1          | A13   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C1          | A16   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C1          | A7    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C1          | A8    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C2          | A1    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C2          | A13   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C2          | A9    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C3          | A17   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C3          | A4    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | High   | C3          | A5    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C1          | A12   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C1          | A18   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C1          | A20   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C1          | A4    | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C2          | A14   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C2          | A19   | 1       |
| Calliphoridae | Chrysomya_megacephala | Lung   | Low    | C2          | A5    | 1       |

**Table S1. Continuation.**

| Family        | Species                | Bait   | Height | Collections | Trees | Females |
|---------------|------------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Chrysomya_megacephala  | Lung   | Low    | C3          | A1    | 1       |
| Calliphoridae | Chrysomya_megacephala  | Lung   | Low    | C3          | A10   | 1       |
| Calliphoridae | Chrysomya_megacephala  | Lung   | Low    | C3          | A14   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | High   | C1          | A14   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | High   | C2          | A6    | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C1          | A10   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C1          | A13   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C1          | A15   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C1          | A19   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C2          | A11   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C2          | A2    | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C2          | A8    | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C3          | A1    | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C3          | A15   | 1       |
| Calliphoridae | Chrysomya_putoria      | Banana | Low    | C3          | A6    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | High   | C1          | A10   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | High   | C1          | A15   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | High   | C2          | A17   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | High   | C2          | A3    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | High   | C3          | A3    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C1          | A14   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C1          | A2    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C1          | A6    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C1          | A9    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C2          | A13   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C2          | A2    | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C2          | A20   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C3          | A11   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C3          | A14   | 1       |
| Calliphoridae | Chrysomya_putoria      | Lung   | Low    | C3          | A19   | 1       |
| Calliphoridae | Cochliomyia_macellaria | Banana | High   | C1          | A4    | 1       |
| Calliphoridae | Cochliomyia_macellaria | Banana | High   | C1          | A9    | 1       |
| Calliphoridae | Cochliomyia_macellaria | Banana | High   | C2          | A16   | 1       |
| Calliphoridae | Cochliomyia_macellaria | Banana | High   | C2          | A9    | 1       |
| Calliphoridae | Cochliomyia_macellaria | Banana | High   | C3          | A10   | 1       |
| Calliphoridae | Cochliomyia_macellaria | Banana | High   | C3          | A8    | 1       |

**Table S1. Continuation.**

| Family        | Species                  | Bait   | Height | Collections | Trees | Females |
|---------------|--------------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C1          | A10   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C1          | A17   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C1          | A19   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C1          | A6    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C2          | A18   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C2          | A3    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C2          | A8    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C3          | A10   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C3          | A13   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Banana | Low    | C3          | A18   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C1          | A16   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C1          | A17   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C1          | A18   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C1          | A2    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C2          | A12   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C2          | A20   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C2          | A8    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C3          | A13   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C3          | A17   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | High   | C3          | A4    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C1          | A1    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C1          | A12   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C1          | A2    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C1          | A5    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C2          | A17   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C2          | A7    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C2          | A8    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C3          | A10   | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C3          | A2    | 1       |
| Calliphoridae | Cochliomyia_macellaria   | Lung   | Low    | C3          | A7    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C1          | A12   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C1          | A18   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C1          | A4    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C2          | A11   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C2          | A14   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C2          | A18   | 1       |

**Table S1. Continuation.**

| Family        | Species                  | Bait   | Height | Collections | Trees | Females |
|---------------|--------------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C3          | A10   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C3          | A17   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | High   | C3          | A19   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C1          | A11   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C1          | A12   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C1          | A16   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C1          | A8    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C2          | A1    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C2          | A16   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C2          | A7    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C3          | A1    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C3          | A3    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Banana | Low    | C3          | A9    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C1          | A1    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C1          | A10   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C1          | A13   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C1          | A2    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C2          | A10   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C2          | A2    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C2          | A9    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C3          | A1    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C3          | A17   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | High   | C3          | A3    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C1          | A11   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C1          | A14   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C1          | A18   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C1          | A20   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C2          | A10   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C2          | A7    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C2          | A9    | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C3          | A12   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C3          | A13   | 1       |
| Calliphoridae | Hemilucilia_semidiaphana | Lung   | Low    | C3          | A17   | 1       |
| Calliphoridae | Lucilia_cuprina          | Banana | High   | C1          | A16   | 1       |
| Calliphoridae | Lucilia_cuprina          | Banana | High   | C1          | A5    | 1       |
| Calliphoridae | Lucilia_cuprina          | Banana | High   | C2          | A8    | 1       |

**Table S1. Continuation.**

| Family        | Species         | Bait   | Height | Collections | Trees | Females |
|---------------|-----------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Lucilia_cuprina | Banana | High   | C3          | A5    | 1       |
| Calliphoridae | Lucilia_cuprina | Banana | Low    | C1          | A4    | 1       |
| Calliphoridae | Lucilia_cuprina | Lung   | High   | C1          | A16   | 1       |
| Calliphoridae | Lucilia_cuprina | Lung   | High   | C2          | A10   | 1       |
| Calliphoridae | Lucilia_cuprina | Lung   | Low    | C1          | A10   | 1       |
| Calliphoridae | Lucilia_cuprina | Lung   | Low    | C2          | A5    | 1       |
| Calliphoridae | Lucilia_cuprina | Lung   | Low    | C3          | A18   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C1          | A13   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C1          | A16   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C1          | A18   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C1          | A5    | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C2          | A5    | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C2          | A7    | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C2          | A9    | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C3          | A10   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C3          | A13   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | High   | C3          | A7    | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C1          | A10   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C1          | A11   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C1          | A12   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C1          | A14   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C2          | A10   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C2          | A12   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C2          | A17   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C3          | A15   | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C3          | A5    | 1       |
| Calliphoridae | Lucilia_eximia  | Banana | Low    | C3          | A8    | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C1          | A11   | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C1          | A15   | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C1          | A18   | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C1          | A6    | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C2          | A12   | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C2          | A4    | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C2          | A7    | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C3          | A10   | 1       |
| Calliphoridae | Lucilia_eximia  | Lung   | High   | C3          | A4    | 1       |

**Table S1. Continuation.**

| Family        | Species               | Bait   | Height | Collections | Trees | Females |
|---------------|-----------------------|--------|--------|-------------|-------|---------|
| Calliphoridae | Lucilia_eximia        | Lung   | High   | C3          | A9    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C1          | A14   | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C1          | A15   | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C1          | A3    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C1          | A7    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C2          | A7    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C2          | A8    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C2          | A9    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C3          | A18   | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C3          | A2    | 1       |
| Calliphoridae | Lucilia_eximia        | Lung   | Low    | C3          | A5    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | High   | C1          | A1    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | High   | C1          | A5    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | High   | C2          | A3    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | High   | C3          | A10   | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C1          | A11   | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C1          | A3    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C1          | A6    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C1          | A8    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C2          | A15   | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C2          | A4    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C2          | A7    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C3          | A1    | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C3          | A10   | 1       |
| Calliphoridae | Paralucilia_paraensis | Banana | Low    | C3          | A5    | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C1          | A12   | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C1          | A16   | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C1          | A20   | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C1          | A9    | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C2          | A10   | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C2          | A13   | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C2          | A7    | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C3          | A17   | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C3          | A3    | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | High   | C3          | A8    | 1       |
| Calliphoridae | Paralucilia_paraensis | Lung   | Low    | C1          | A14   | 1       |

**Table S1. Continuation.**

| Family           | Species                   | Bait   | Height | Collections | Trees | Females |
|------------------|---------------------------|--------|--------|-------------|-------|---------|
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C1          | A15   | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C1          | A17   | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C1          | A20   | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C2          | A15   | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C2          | A19   | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C2          | A2    | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C3          | A12   | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C3          | A5    | 1       |
| Calliphoridae    | Paralucilia_paraensis     | Lung   | Low    | C3          | A8    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C1          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C1          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C1          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C1          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C2          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C2          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C2          | A7    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C3          | A16   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C3          | A19   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | High   | C3          | A9    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C1          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C1          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C1          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C1          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C2          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C2          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C2          | A7    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C3          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C3          | A3    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Banana | Low    | C3          | A7    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C1          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C1          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C1          | A4    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C1          | A5    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C2          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C2          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C2          | A3    | 1       |

**Table S1. Continuation.**

| Family           | Species                   | Bait   | Height | Collections | Trees | Females |
|------------------|---------------------------|--------|--------|-------------|-------|---------|
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C3          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C3          | A19   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | High   | C3          | A9    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C1          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C1          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C1          | A7    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C1          | A9    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C2          | A1    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C2          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C2          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C3          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C3          | A14   | 1       |
| Mesembrinellidae | Mesembrinella_bellardiana | Lung   | Low    | C3          | A4    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C1          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C1          | A16   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C1          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C1          | A7    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C2          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C2          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C2          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C3          | A14   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C3          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | High   | C3          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C1          | A10   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C1          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C1          | A19   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C1          | A8    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C2          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C2          | A14   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C2          | A8    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C3          | A10   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C3          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Banana | Low    | C3          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Lung   | High   | C1          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Lung   | High   | C1          | A19   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor     | Lung   | High   | C1          | A20   | 1       |

**Table S1. Continuation.**

| Family           | Species                     | Bait   | Height | Collections | Trees | Females |
|------------------|-----------------------------|--------|--------|-------------|-------|---------|
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C1          | A4    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C2          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C2          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C2          | A6    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C3          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C3          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | High   | C3          | A9    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C1          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C1          | A14   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C1          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C1          | A8    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C2          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C2          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C2          | A4    | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C3          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C3          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_bicolor       | Lung   | Low    | C3          | A2    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | High   | C1          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | High   | C2          | A14   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | High   | C3          | A7    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C1          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C1          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C1          | A20   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C1          | A3    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C2          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C2          | A6    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C3          | A10   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C3          | A13   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Banana | Low    | C3          | A6    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | High   | C1          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | High   | C1          | A16   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | High   | C2          | A10   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | High   | C2          | A4    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | High   | C3          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | Low    | C1          | A1    | 1       |
| Mesembrinellidae | Mesembrinella_quadrilineata | Lung   | Low    | C1          | A13   | 1       |

**Table S1. Continuation.**

| Family           | Species                      | Bait   | Height | Collections | Trees | Females |
|------------------|------------------------------|--------|--------|-------------|-------|---------|
| Mesembrinellidae | Mesembrinella_quadri-lineata | Lung   | Low    | C1          | A19   | 1       |
| Mesembrinellidae | Mesembrinella_quadri-lineata | Lung   | Low    | C2          | A10   | 1       |
| Mesembrinellidae | Mesembrinella_quadri-lineata | Lung   | Low    | C2          | A17   | 1       |
| Mesembrinellidae | Mesembrinella_quadri-lineata | Lung   | Low    | C2          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_quadri-lineata | Lung   | Low    | C3          | A14   | 1       |
| Mesembrinellidae | Mesembrinella_quadri-lineata | Lung   | Low    | C3          | A15   | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | High   | C1          | A6    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | High   | C2          | A9    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C1          | A5    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C1          | A6    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C1          | A8    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C2          | A18   | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C2          | A8    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C3          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Banana | Low    | C3          | A5    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C1          | A12   | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C1          | A3    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C1          | A9    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C2          | A10   | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C2          | A3    | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C3          | A11   | 1       |
| Mesembrinellidae | Mesembrinella_randa          | Lung   | High   | C3          | A4    | 1       |

**Table SII.** Chi-square ( $\chi^2$ ) and *post hoc* test values for each family and species of flies according to the sex recorded in two baits (lung and banana) and two heights (low and high).

| Taxon                       | test     | Total            | <i>post hoc</i>      |                    |                     |                   |                    |                  |                   |                  |
|-----------------------------|----------|------------------|----------------------|--------------------|---------------------|-------------------|--------------------|------------------|-------------------|------------------|
|                             |          |                  | Banana High - Female | Banana High - Male | Banana Low - Female | Banana Low - Male | Lung High - Female | Lung High - Male | Lung Low - Female | Lung Low - Male  |
| Calliphoridae               | $\chi^2$ | 84.044           | -43,812              | 43,812             | -2,271              | 2,271             | -46,917            | 46,917           | 89,742            | -89,742          |
|                             | p        | <b>&lt;0.001</b> | <b>&lt;0.001</b>     | <b>&lt;0.001</b>   | <b>0.023</b>        | <b>0.024</b>      | <b>&lt;0.001</b>   | <b>&lt;0.001</b> | <b>&lt;0.001</b>  | <b>&lt;0.001</b> |
| Chrysomya albiceps          | $\chi^2$ | 15.908           | -2.562               | 2.562              | -0.839              | 0.839             | -1.203             | 1.203            | 3.768             | -3.768           |
|                             | p        | <b>0.001</b>     | <b>0.01</b>          | <b>0.01</b>        | 0.402               | 0.402             | 0.229              | 0.229            | <b>&lt;0.001</b>  | <b>&lt;0.001</b> |
| Chrysomya megacephala       | $\chi^2$ | 8.321            | -0.408               | 0.408              | -0.046              | 0.046             | -2.573             | 2.573            | 2.635             | -2.635           |
|                             | p        | <b>0.04</b>      | 0.683                | 0.683              | 0.963               | 0.963             | <b>0.01</b>        | <b>0.01</b>      | <b>0.008</b>      | <b>0.009</b>     |
| Chrysomya putoria           | $\chi^2$ | 8.940            | -2.557               | 2.557              | 1.754               | -1.754            | -0.913             | 0.913            | 0.975             | -0.975           |
|                             | p        | <b>0.03</b>      | <b>0.011</b>         | <b>0.011</b>       | 0.08                | 0.081             | 0.361              | 0.361            | 0.329             | 0.329            |
| Chloroprocta idioida        | $\chi^2$ | 19.437           | -0.905               | 0.905              | -2.581              | 2.581             | -2.212             | 2.212            | 4.366             | -4.366           |
|                             | p        | <b>&lt;0.001</b> | 0.366                | 0.366              | <b>0.01</b>         | <b>0.011</b>      | <b>0.027</b>       | <b>0.027</b>     | <b>&lt;0.001</b>  | <b>&lt;0.001</b> |
| Cochliomyia macellaria      | $\chi^2$ | 7.371            |                      |                    |                     |                   |                    |                  |                   |                  |
|                             | p        | 0.061            |                      |                    |                     |                   |                    |                  |                   |                  |
| Hemilucilia semidiaphana    | $\chi^2$ | 8.652            | -0.981               | 0.981              | -0.761              | 0.761             | -1.886             | 1.886            | 2.880             | -2.880           |
|                             | p        | <b>0.034</b>     | 0.327                | 0.327              | 0.447               | 0.447             | 0.06               | 0.06             | <b>0.004</b>      | <b>0.004</b>     |
| Lucilia eximia              | $\chi^2$ | 20.956           | -2.479               | 2.479              | -0.660              | 0.660             | -2.055             | 2.055            | 4.374             | -4.374           |
|                             | p        | <b>&lt;0.001</b> | <b>0.013</b>         | <b>0.013</b>       | 0.509               | 0.509             | <b>0.04</b>        | <b>0.04</b>      | <b>&lt;0.001</b>  | <b>&lt;0.001</b> |
| Paralucilia paraensis       | $\chi^2$ | 9.400            | -1.717               | 1.717              | -1.334              | 1.334             | -1.064             | 1.064            | 2.896             | -2.896           |
|                             | p        | <b>0.024</b>     | 0.086                | 0.086              | 0.182               | 0.182             | 0.288              | 0.288            | <b>0.004</b>      | <b>0.004</b>     |
| Mesembrinellidae            | $\chi^2$ | 19.452           | -42,136              | 42,136             | 0.4212              | -0.4212           | 15,833             | -15,833          | 22,273            | -22,273          |
|                             | p        | <b>&lt;0.001</b> | <b>&lt;0.001</b>     | <b>&lt;0.001</b>   | 0.673               | 0.673             | 0.113              | 0.113            | <b>0.026</b>      | <b>0.026</b>     |
| Mesembrinella bellardiana   | $\chi^2$ | 10.194           | -3.099               | 3.099              | 1.073               | -1.073            | 0.269              | -0.269           | 1.765             | -1.765           |
|                             | p        | <b>0.017</b>     | <b>0.002</b>         | <b>0.002</b>       | 0.283               | 0.283             | 0.788              | 0.788            | 0.078             | 0.078            |
| Mesembrinella bicolor       | $\chi^2$ | 7.019            |                      |                    |                     |                   |                    |                  |                   |                  |
|                             | p        | 0.071            |                      |                    |                     |                   |                    |                  |                   |                  |
| Mesembrinella quadrilineata | $\chi^2$ | 5.671            |                      |                    |                     |                   |                    |                  |                   |                  |
|                             | p        | 0.129            |                      |                    |                     |                   |                    |                  |                   |                  |

**Table SIII. Chi-square ( $\chi^2$ ) and *post hoc* test values for each family and species of flies according to ovarian development in two baits (lung and banana) and two heights (low and high).**

| Taxon                       | Total    |                  | <i>pos hoc</i> |                  |                |                |                |                |                  |                  |               |               |               |               |                  |                |                  |                |                  |               |
|-----------------------------|----------|------------------|----------------|------------------|----------------|----------------|----------------|----------------|------------------|------------------|---------------|---------------|---------------|---------------|------------------|----------------|------------------|----------------|------------------|---------------|
| test                        |          |                  |                |                  | Banana         |                | Banana         |                | Banana           |                  | Banana        |               | Banana        |               | Banana           |                | Banana           |                | Banana           |               |
|                             |          |                  |                |                  | High - Phase 1 | High - Phase 2 | High - Phase 3 | High - Phase 4 | High - Phase 5   | Low - Phase 1    | Low - Phase 2 | Low - Phase 3 | Low - Phase 4 | Low - Phase 5 | High - Phase 1   | High - Phase 2 | High - Phase 3   | High - Phase 4 | High - Phase 5   | Low - Phase 1 |
| Calliphoridae               | $\chi^2$ | 689.63           | 16,731         | 15,987           | -0.691         | -18,755        | -              | -0.5936        | 56,902           | -33,935          | -19,564       | -             | -12,668       | -29,989       | 4,615            | -14,961        | -                | 0.2938         | -40,046          | -0.61         |
|                             | p        | <b>&lt;0.001</b> | 0.094          | 0.110            | 0.490          | 0.060          | -              | 0.552          | <b>&lt;0.001</b> | <b>&lt;0.001</b> | 0.051         | -             | 0.205         | <b>0.008</b>  | <b>&lt;0.001</b> | 0.135          | -                | 0.769          | <b>&lt;0.001</b> | 0.549         |
| Chrysomya albiceps          | $\chi^2$ | 26.915           | -0.585         | -0.195           | 1.835          | -1.826         | -              | 1.7541         | 3.7031           | -2.5689          | -1.8257       | -             | -0.5847       | -0.975        | 0.367            | 0.9129         | -                | -0.5847        | -2.5337          | 0.367         |
|                             | p        | <b>0.001</b>     | 0.559          | 0.845            | 0.066          | 0.068          | -              | 0.080          | <b>&lt;0.001</b> | <b>0.010</b>     | 0.068         | -             | 0.559         | 0.330         | 0.714            | 0.361          | -                | 0.559          | <b>0.011</b>     | 0.717         |
| Chrysomya megacephala       | $\chi^2$ | 12.375           |                |                  | -              |                |                | -              |                  |                  |               |               | -             |               |                  |                |                  | -              |                  |               |
| Chrysomya putoria           | p        | 0.193            |                |                  | -              |                |                | -              |                  |                  |               |               | -             |               |                  |                |                  | -              |                  |               |
| Cochliomyia macellaria      | $\chi^2$ | 29.918           | 2,390          | 0.277            | -1.039         | -0.701         | -              | -1.127         | 3.184            | -1.127           | -1.900        | -             | -0.701        | -2.054        | 3.503            | -1.181         | -                | 0.395          | -1.682           | -1.127        |
|                             | p        | <b>0.001</b>     | <b>0.017</b>   | 0.781            | 0.298          | 0.483          | -              | 0.259          | <b>0.001</b>     | 0.259            | <b>0.057</b>  | -             | 0.483         | <b>0.04</b>   | <b>0.001</b>     | 0.237          | -                | 0.693          | 0.092            | 0.259         |
| Lucilia eximia              | $\chi^2$ | 29.331           | -0.651         | 4.045            | -2.683         | -1.078         | -              | 2.347          | -0.045           | 0.000            | -1.494        | -             | -0.903        | -0.853        | 1.488            | -0.418         | -                | -0.903         | -2.468           | 0.744         |
|                             | p        | <b>0.001</b>     | 0.515          | <b>&lt;0.001</b> | <b>0.007</b>   | 0.281          | -              | <b>0.019</b>   | 0.964            | 1                | 0.135         | -             | 0.367         | 0.394         | 0.136            | 0.676          | -                | 0.367          | <b>0.014</b>     | 0.457         |
| Lucilia cuprina             | $\chi^2$ | 23.397           | 2.739          | 0.745            | -2.534         | -1.040         | -              | -1.826         | 1.491            | 0.585            | -1.040        | -             | -1.826        | -1.491        | 2.924            | 0.347          | -                | 0.913          | -0.745           | -0.975        |
|                             | p        | <b>0.005</b>     | <b>0.006</b>   | 0.456            | <b>0.011</b>   | 0.299          | -              | 0.068          | 0.136            | 0.559            | 0.299         | -             | 0.068         | 0.136         | <b>0.004</b>     | 0.729          | -                | 0.361          | 0.456            | 0.330         |
| Mesembrinellidae            | $\chi^2$ | 13.611           |                |                  | -              |                |                | -              |                  |                  |               |               | -             |               |                  |                |                  | -              |                  |               |
| Mesembrinella bicolor       | p        | 0.137            |                |                  | -              |                |                | -              |                  |                  |               |               | -             |               |                  |                |                  | -              |                  |               |
| Mesembrinella quadrilineata | $\chi^2$ | 22.844           | 0.7474         | -0.9146          | 0.9949         | 0.0236         | -1.1496        | 0.1543         | 1.8213           | -2.5869          | 1.6872        | 0.2242        | -1.5337       | 0.3998        | -0.8359          | -0.5101        | 2.5662           | 0.7474         | -1.5726          | 2.8294        |
|                             | p        | <b>0.029</b>     | 0.454          | 0.360            | 0.319          | 0.981          | 0.250          | 0.877          | 0.068            | <b>0.009</b>     | 0.091         | 0.822         | 0.125         | 0.689         | 0.403            | 0.61           | <b>0.010</b>     | 0.454          | 0.115            | <b>0.004</b>  |
| Mesembrinella bicolor       | $\chi^2$ | 27.662           | 2.389          | 0.102            | -0.641         | -0.624         | -0.097         | -0.885         | 2.938            | -3.603           | 1.384         | 1.096         | -0.885        | -1.788        | 1.581            | 0.380          | -0.097           | -0.702         | -1.419           | 3.019         |
|                             | p        | <b>0.006</b>     | <b>0.017</b>   | 0.919            | 0.522          | 0.532          | 0.923          | 0.376          | <b>0.003</b>     | <b>&lt;0.001</b> | 0.166         | 0.273         | 0.376         | 0.074         | 0.114            | 0.704          | 0.923            | 0.482          | 0.156            | <b>0.003</b>  |
| Mesembrinella quadrilineata | $\chi^2$ | 32.358           | -0.806         | -0.682           | 2.261          | -0.806         | -0.806         | 0.637          | 2.462            | -2.211           | 1.773         | -1.637        | -1.091        | -0.923        | -1.021           | -1.091         | 4.364            | 0.842          | -1.267           | 1.575         |
|                             | p        | <b>0.001</b>     | 0.420          | 0.495            | <b>0.024</b>   | 0.420          | 0.420          | 0.525          | <b>0.014</b>     | <b>0.027</b>     | 0.076         | 0.102         | 0.275         | 0.356         | 0.307            | 0.275          | <b>&lt;0.001</b> | 0.400          | 0.205            | 0.115         |