

Description of Additional Supplementary data file

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1. **File name:** Supplementary Data 1

Description: video of a dissected mouthpart of *G. pallidipes* whose hypopharynx is full of infective *Trypanosoma congolense* parasites. This is a naturally infected fly collected from Shimba Hills National Reserve in Kenya, dissected, and examined microscopically.

2. **File name:** Supplementary Data 2

Description: Datasets demonstrating the alterations in the volatile profile brought on by *T. congolense* infection, as illustrated in Figure 1. It describes the proportion of dihydro-beta-ionones in the volatiles of cow urine and mouse body odors after *Trypanosoma congolense* infection and the response index of *G. pallidipes* following behavioral tests in a lab experiment using a free-flight cage.

3. **File name:** Supplementary Data 3

Description: Datasets representing the list of differentially expressed genes and gene functions (Figures 3B, 3C, and 3D), relative expression data for odorant receptors (Figure 6), Rhodopsins (Figure 8) genes, and trypanosome infections in *Glossina pallidipes* head and abdominal tissues (Figure 9B).

4. **File name:** Supplementary Data 4

Description: Original agent-based simulation datasets and Python code were used to generate the modelling plots in Figures 9C & 9D.