SWD Choice Assay (Landolt)

Objective to determine the degree to which EAD-active chemicals from wine and vinegar (without ethyl acetate) compare to the “luring” effect of these compounds in the field traps.

* Traps
  + 120mL container
  + Foil lid with hole for centrifuge tube
  + Drowning solution
  + Treatment dispensing container
* Treatment dispensing Container
  + 4ml poly vial
  + Cap with 3mm hole
  + Placed inside the cage 7mm apart
* Arena
  + Metal cages with sleeves
    - (20cm x 20cm x 20cm)
  + 2 traps
  + Water soaked cotton ball
  + 60-70 SWD
    - Seven to 10 days old (even sex ratio)
    - 24h starved
* Incubation conditions
  + 21.5 C
  + 23% rh
  + 16:8 L:D
  + Flies checked at 1pm

Drosophila melanogaster

The degree to which infection may affect the odor profile and attraction of D. melanogaster

* ­­­­­Traps
  + 500mL yogurt container
* Arena
  + 30 flies
    - 2-5 days (even sex ratio)
    - 24h starved
* Incubation conditions
  + 25 C
  + 70 rh
  + 12:12 LD
  + Flies checked at same time