

# A holistic approach to Integrated Pest Management: an aphid management strategy combining durable host plant resistance with fungal bioprotectants

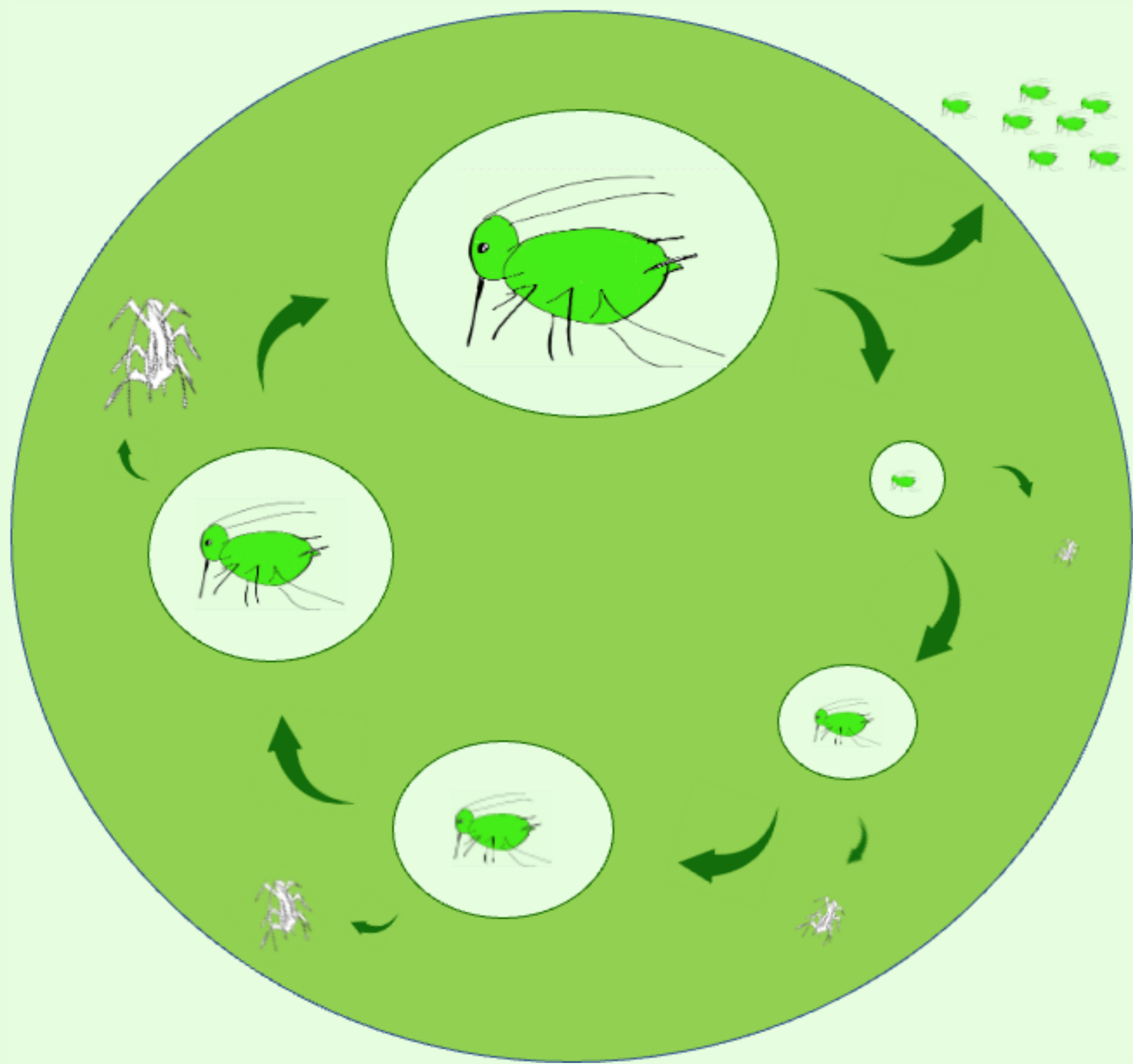


Rebecca Sanders

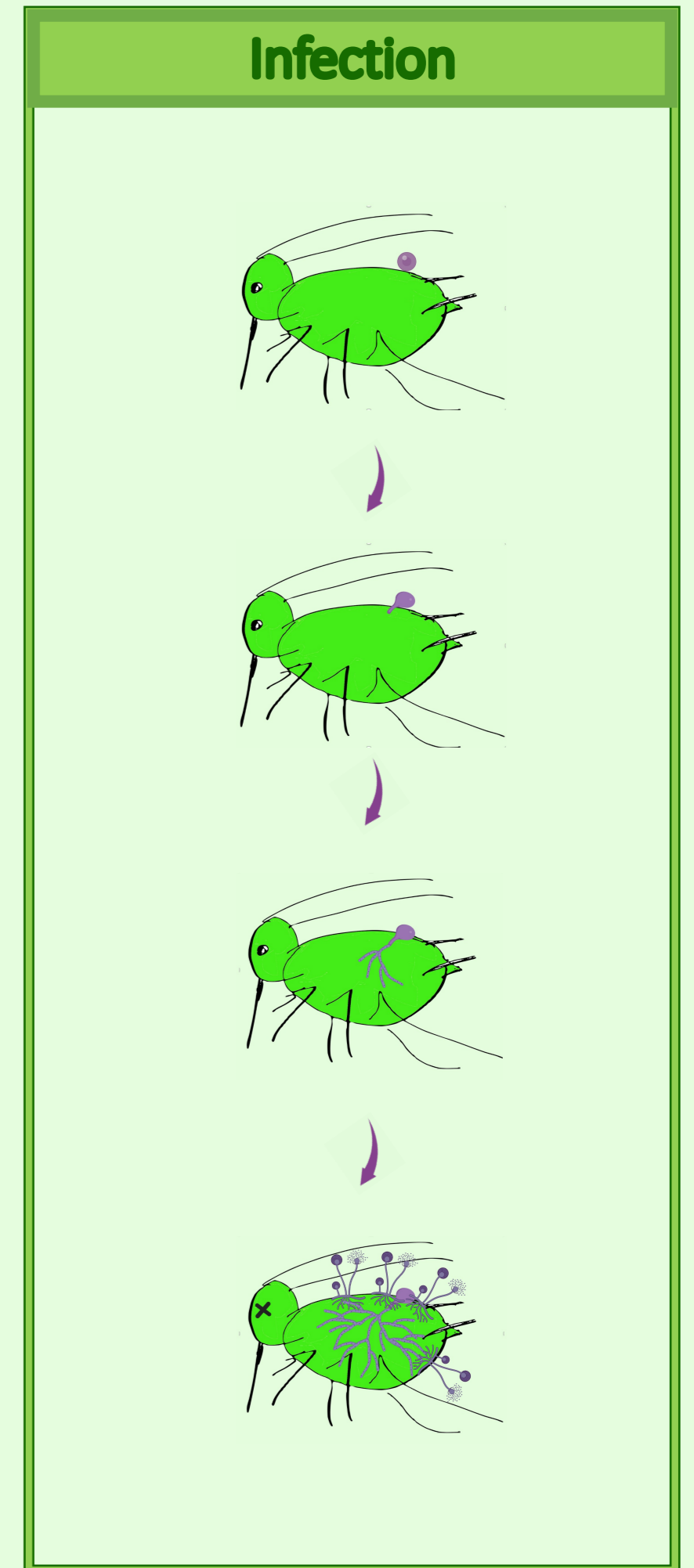
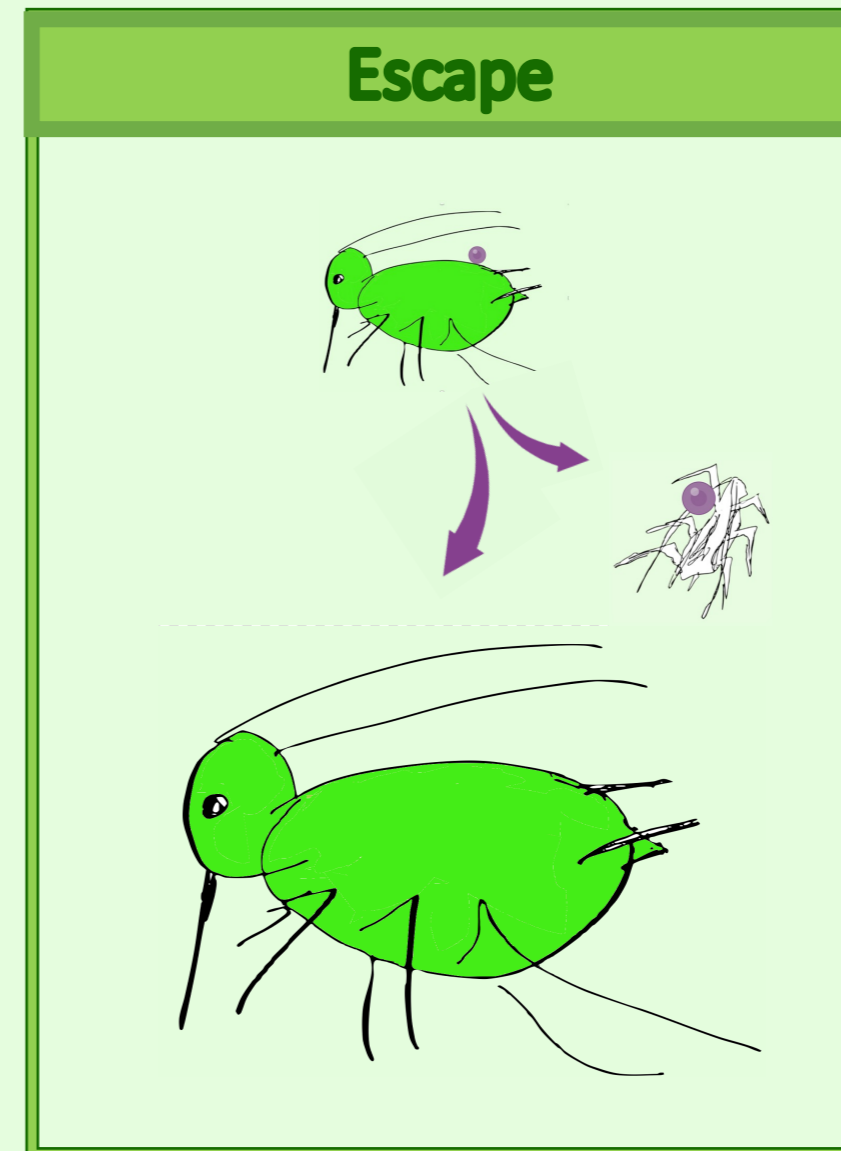
Supervised by Graham Teakle and Dave Chandler



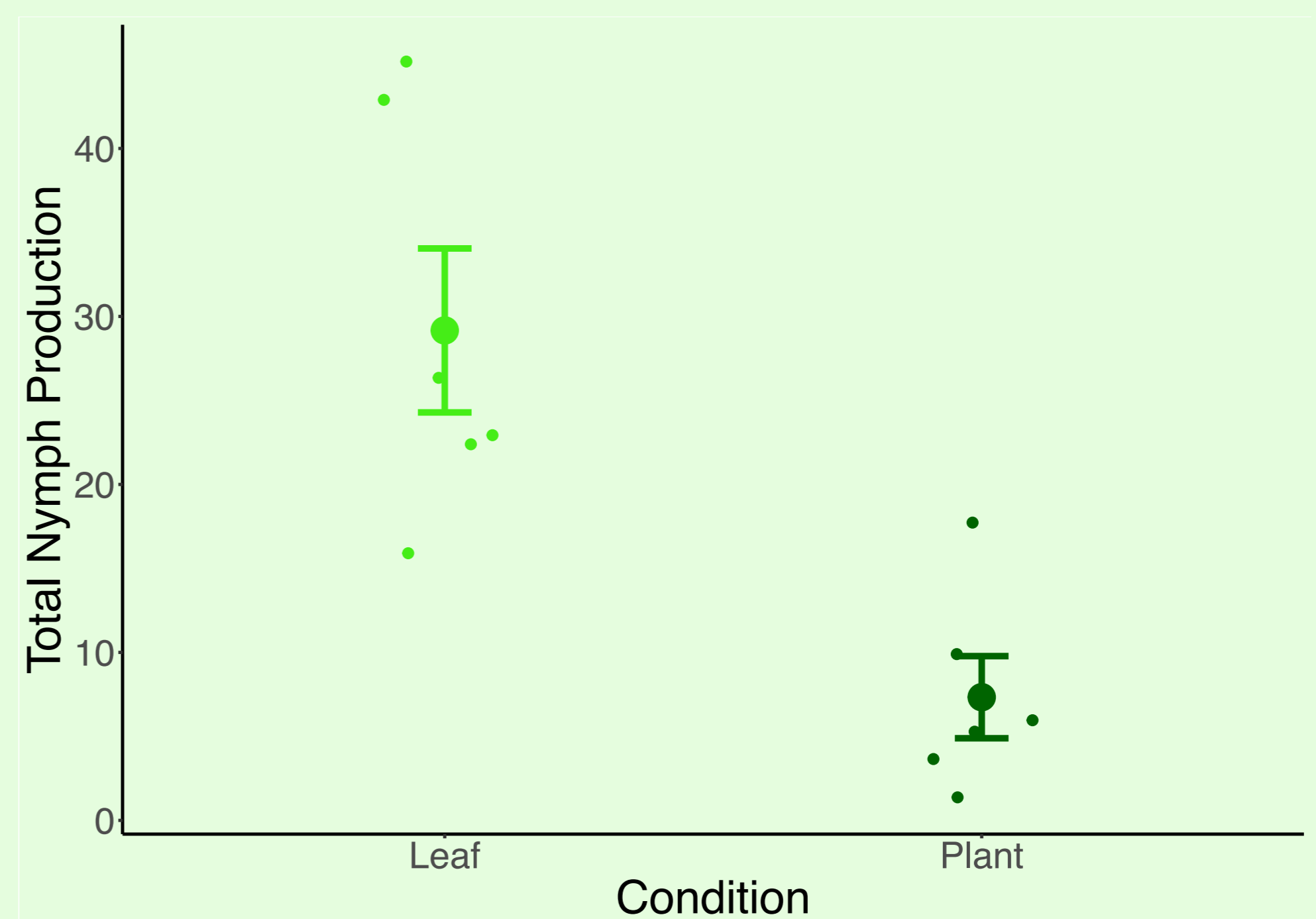
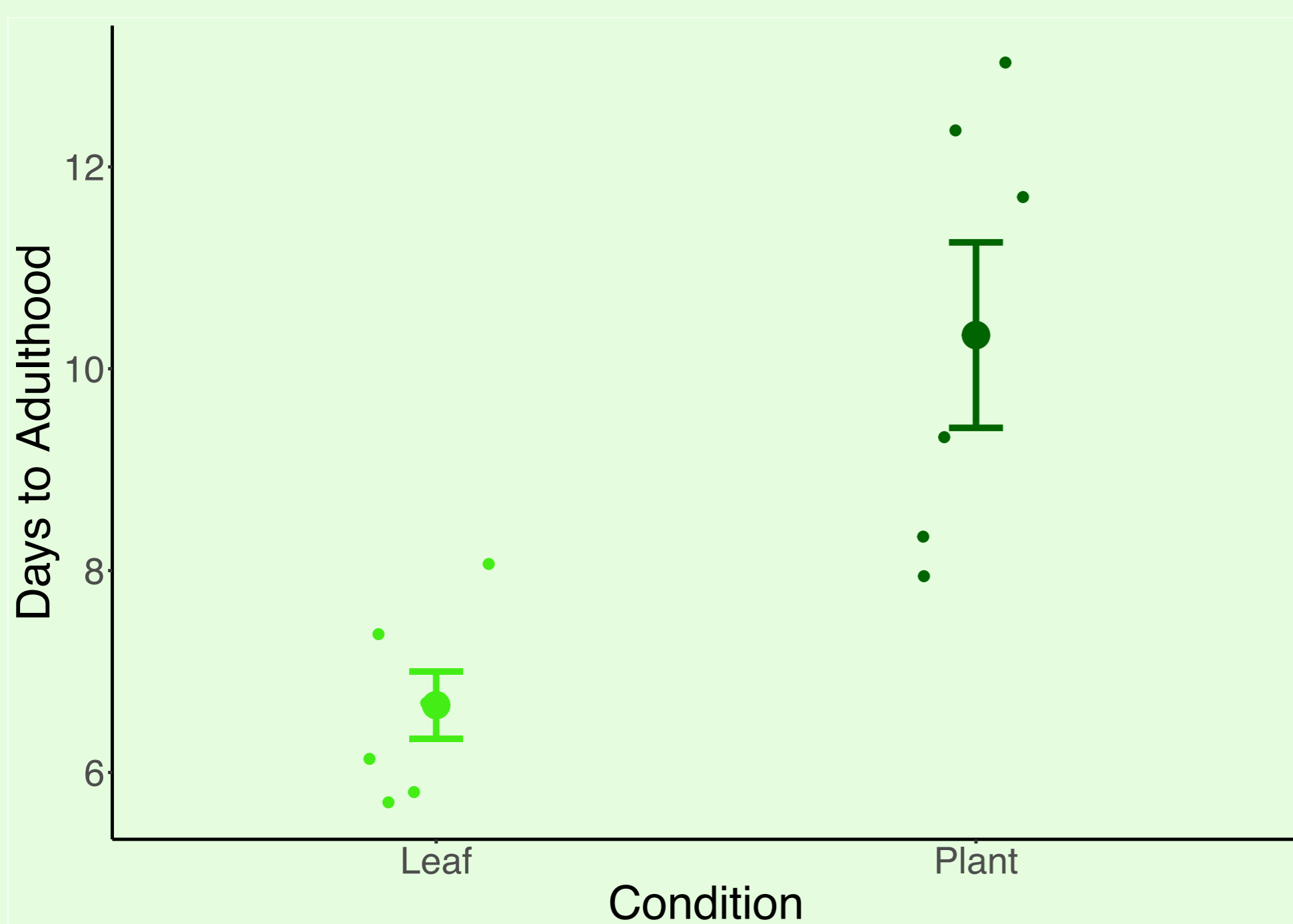
## Aphid Life Cycle



## Entomopathogenic Fungi



## Results so far...



Aphids reared on the detached leaf system reach adulthood faster, and over the course of the bioassay were more fecund than counterparts raised on whole-plants ( $t = 3.75$ ,  $df = 6.29$ ,  $p$ -value  $< 0.05$ ) and ( $t = 4.00$ ,  $df = 7.36$ ,  $p$ -value  $< 0.05$ ).

**Exploiting Synergistic effects between partial host-plant resistance and Entomopathic Fungi may offer a pesticide-free means of controlling *Myzus persicae* – an important insect pest in horticulture.**

