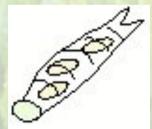


Parasitic wasps









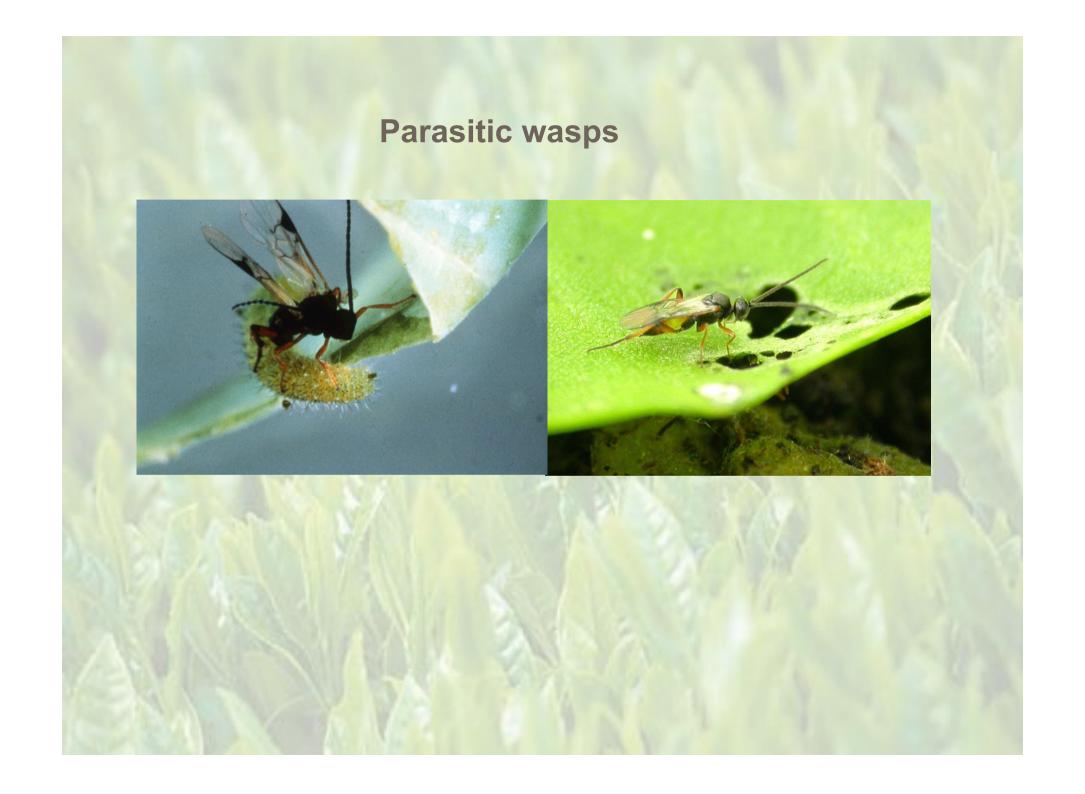






Pupa









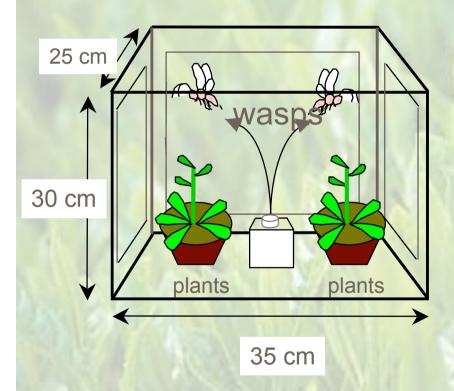




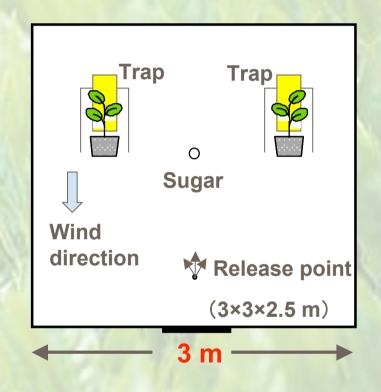
1. Field study

- 2. From single tritrophic system to plural ones
- 3. Plant-plant interaction: key compound and sensitivity

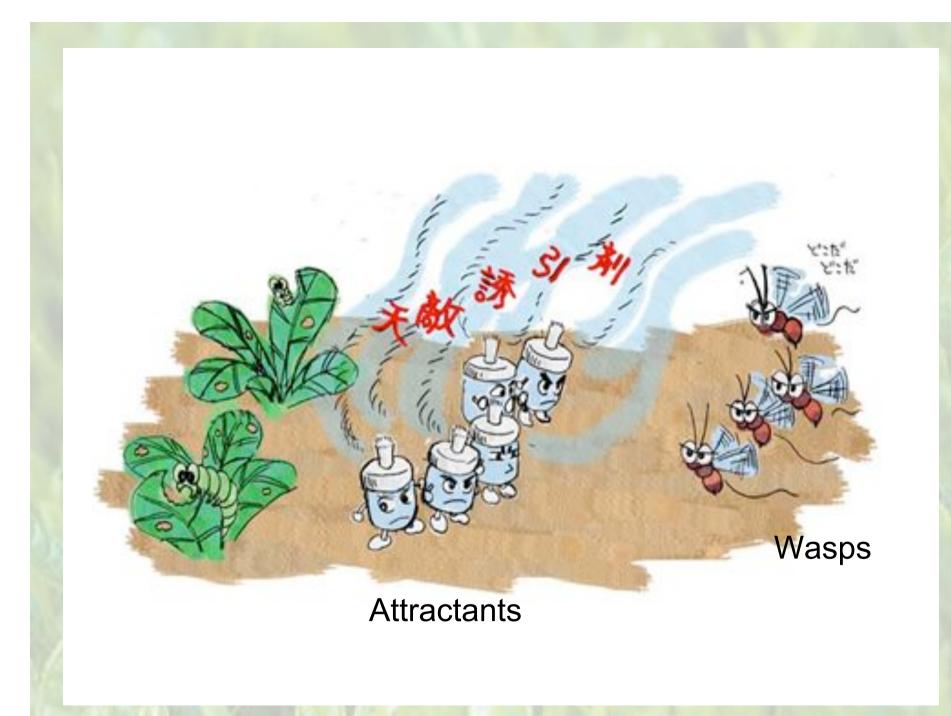
Choice Chamber



Climate controlled room



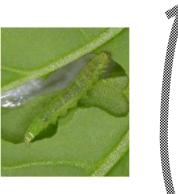


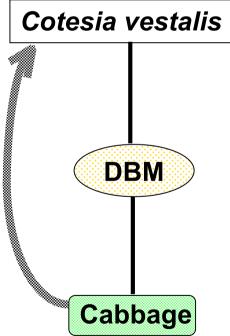




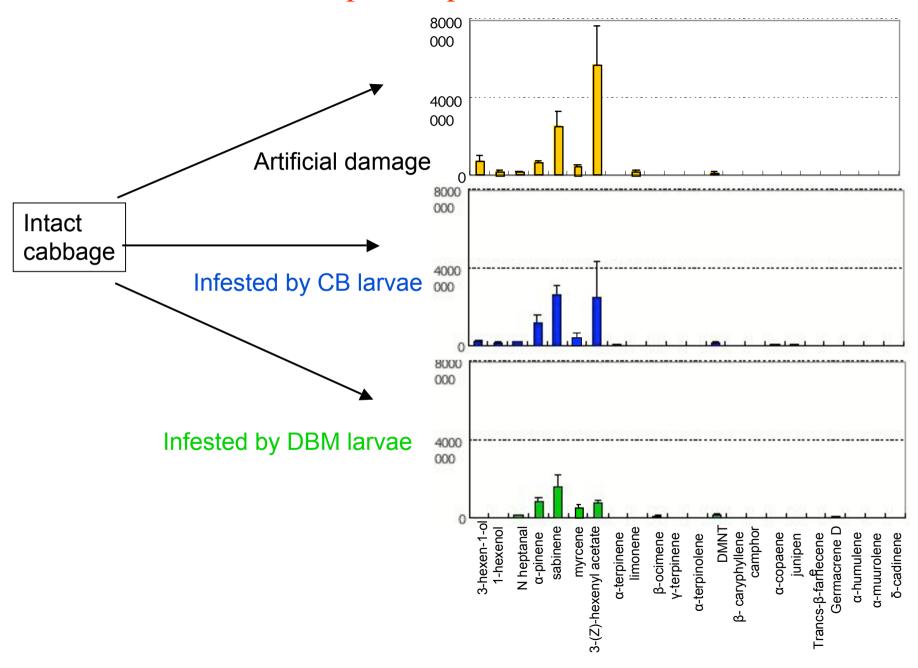
- 1. Field study
- 2. From single tritrophic system to plural ones
- 3. Plant-plant interaction: key compound and sensitivity



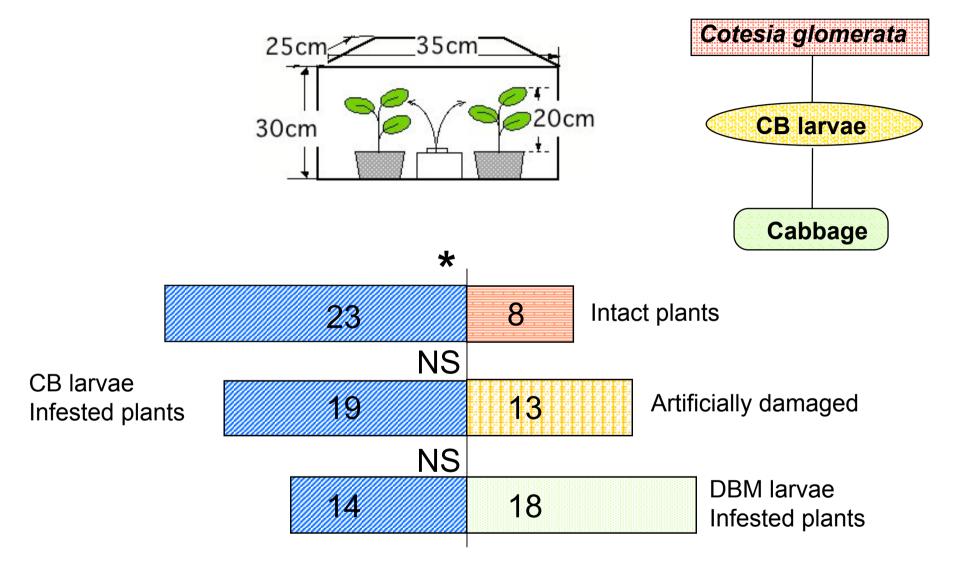




Plants emit herbivore-species specific blend of volatiles.

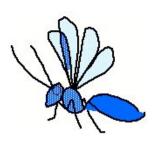


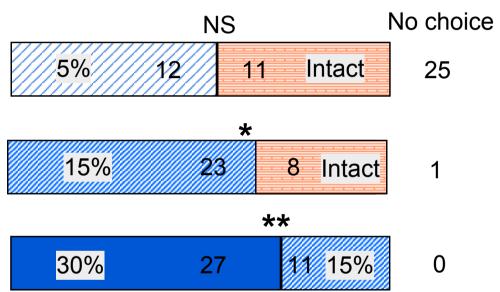
Response of *C. glomerata* to host-infested plants.

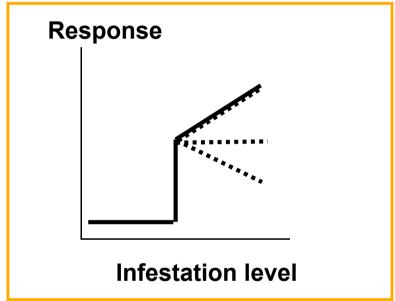


The wasps respond to cabbalge plants with any wounding.

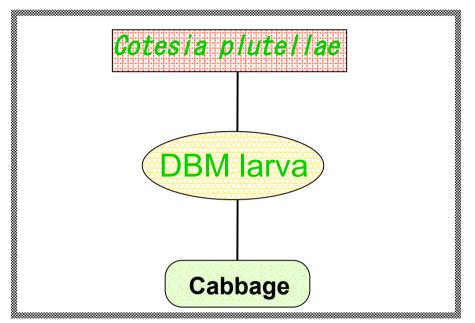
C. glomerata: does the wasps respond differently to plants with different infestation levels?

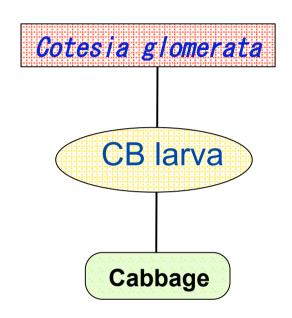






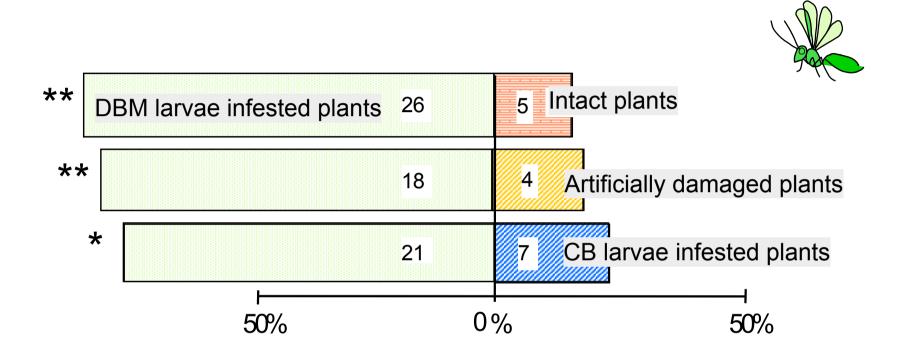
- 1. Presence of the threshold.
- 2. After the threshold, the wasps preferred plants with more damage.





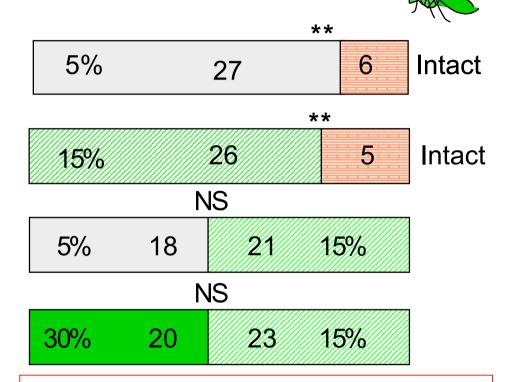


Response of C. plutellae to host-infested plants



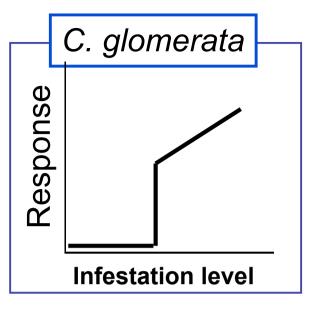
Specific response to host-infested plant volatiles

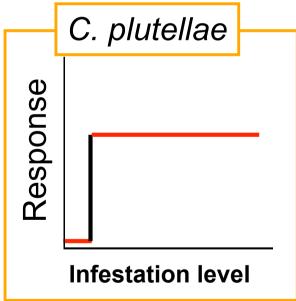
Response of *C. plutellae*: How does the wasps detect infestation levels?



Low threshold.

Response did not increase after the threshold.

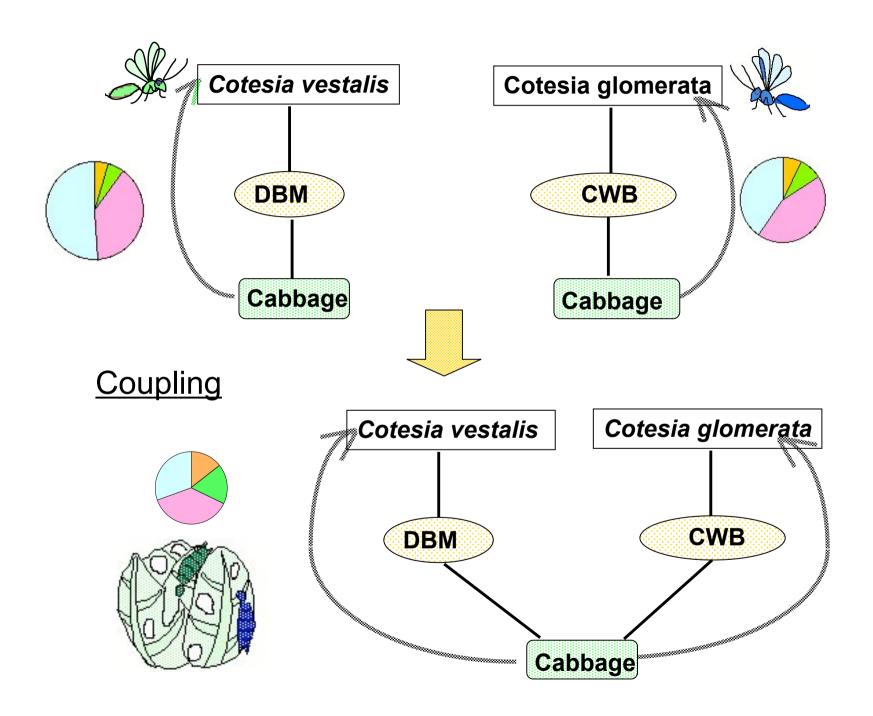


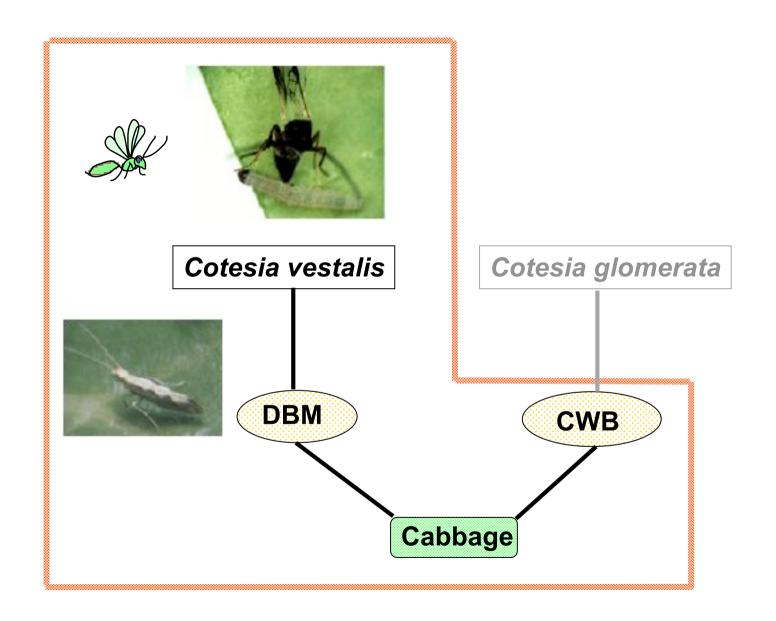


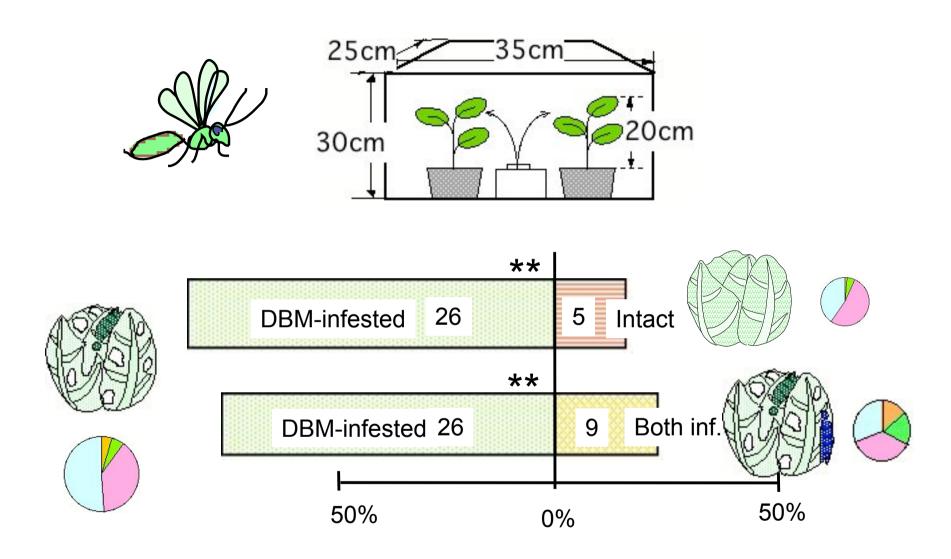
Learning

This wasp can learn the slight differences in blend with good/bad experience.

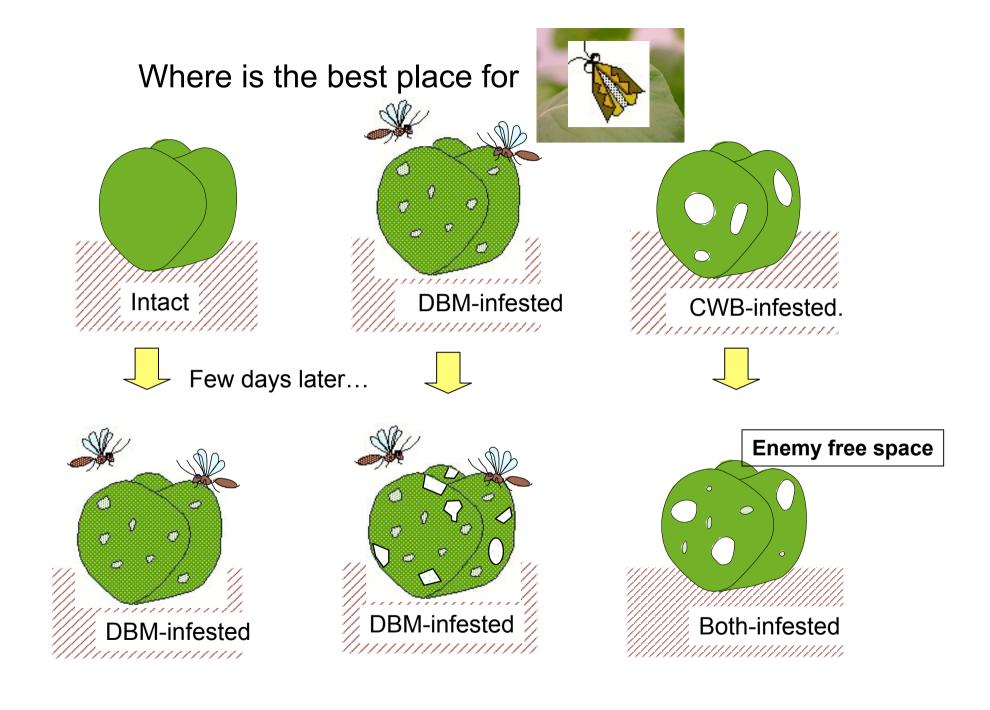




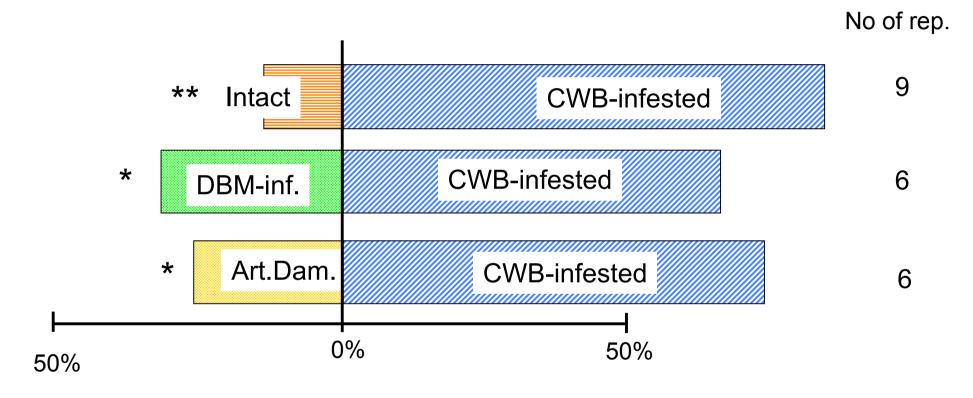




C. vestalis preferred DBM-infested plants.

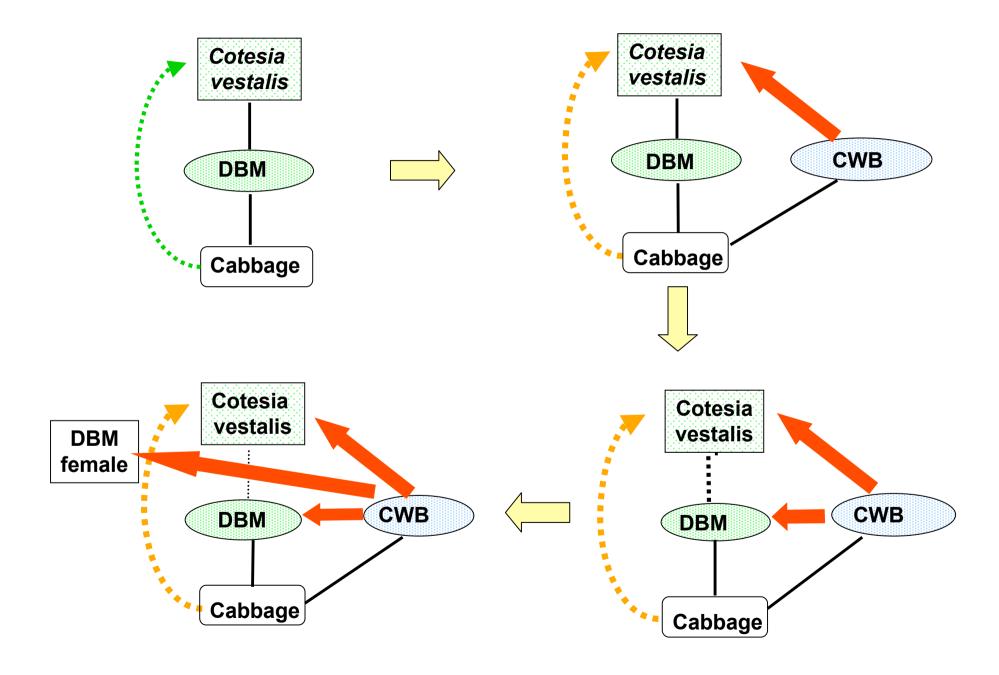


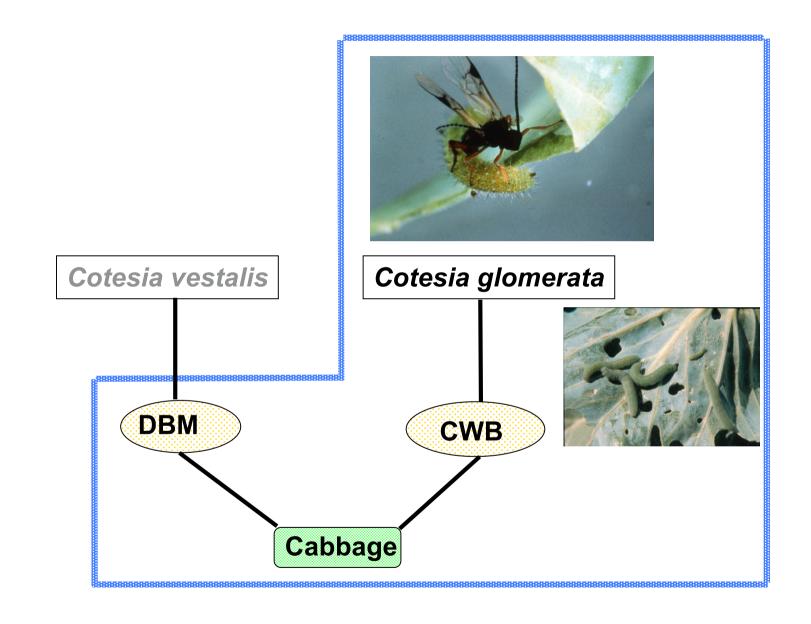
Oviposition preference of



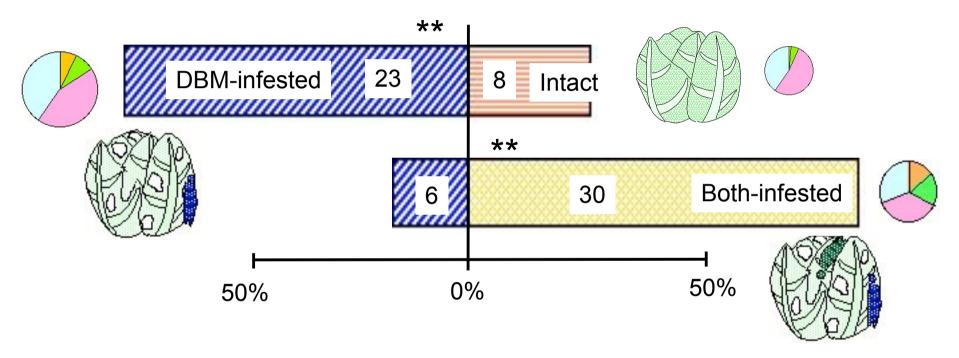
Leaf quality; CWB-infested = Intact = DBM-inf. = Art. Damaged

→ DBM preferred enemy free space.

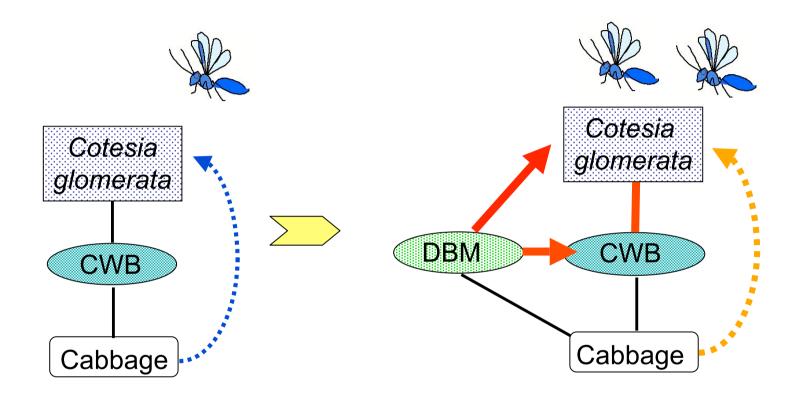




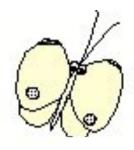
Cotesia glomerata



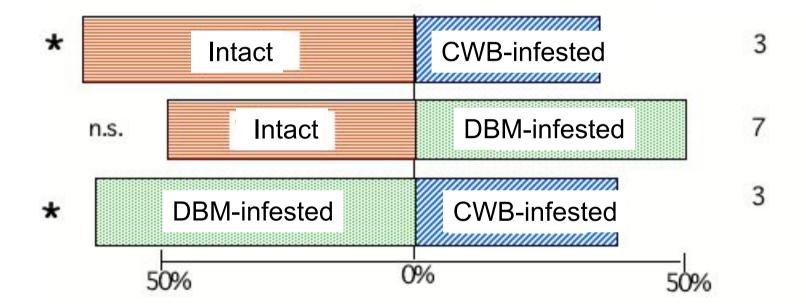
Cotesia glomerata preferred both-infested plants.





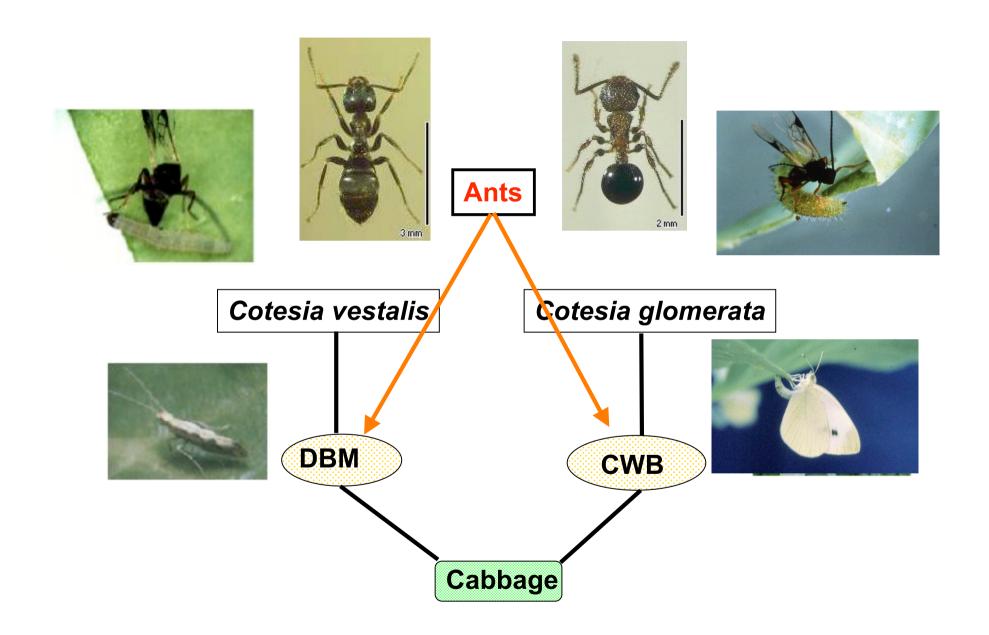


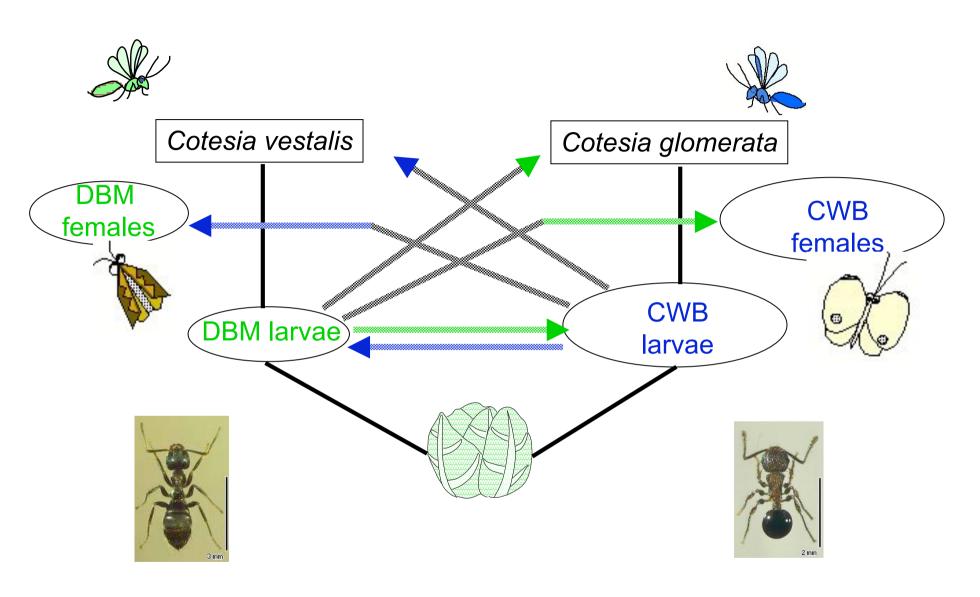
Oviposition preference of Pieris rapae



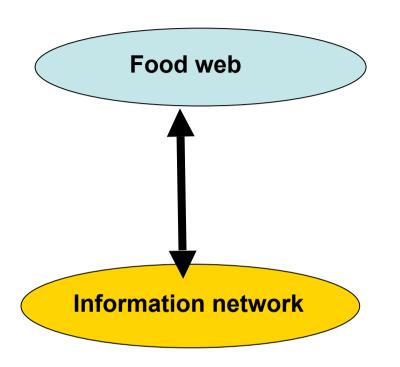
WHY?



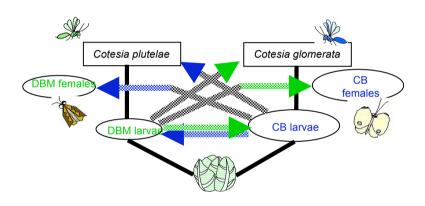




Information network mediated by plant volatiles



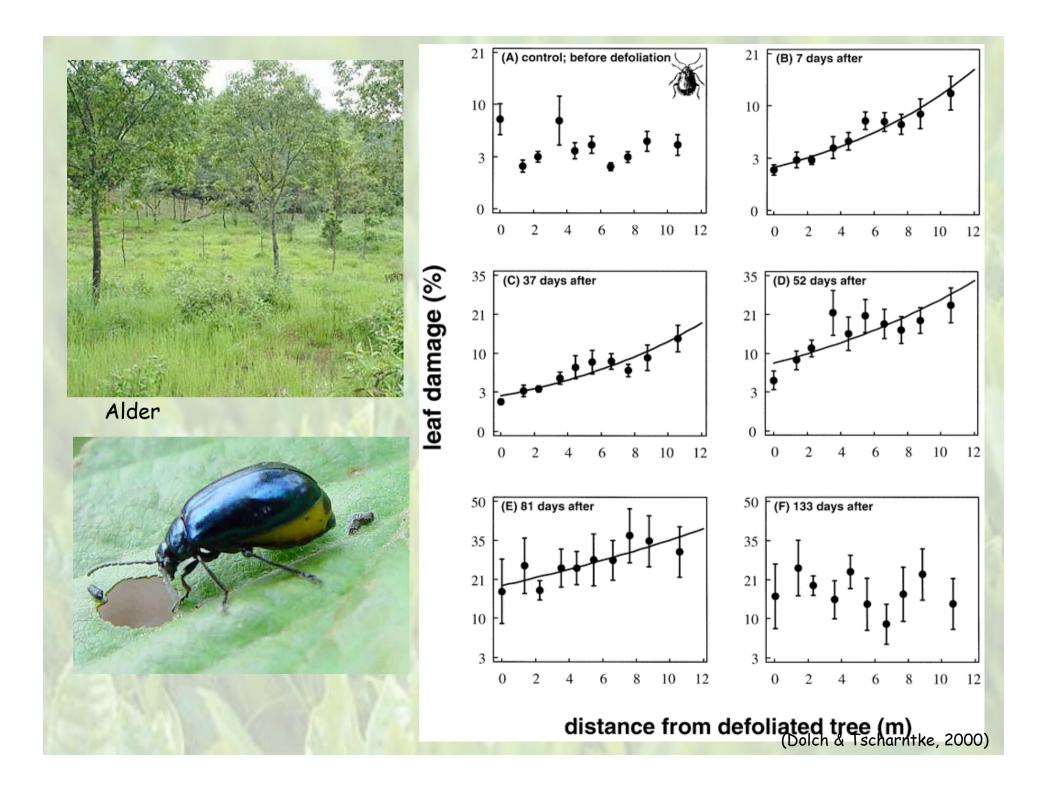


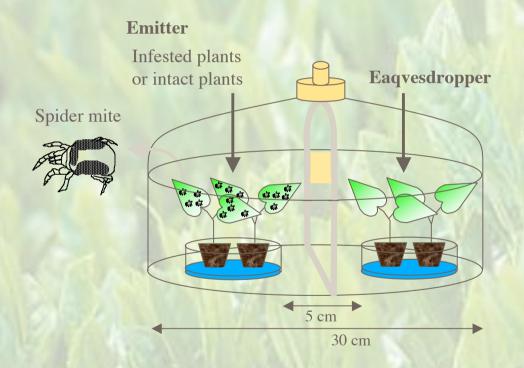


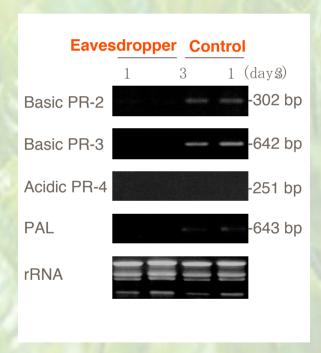




Sagebrush (Artemisia tridentata)









Food web



