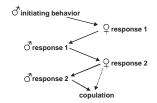
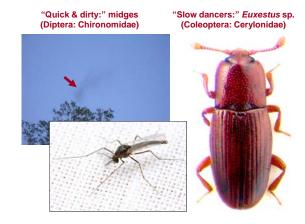
Courtship and Mating (behavioral or ethological premating RIMs)



Males in particular must answer a series of questions in order to pass the test (the essence of sexual selection)



Comparing courtship modalities: information content, propagation, blocking, and privacy

A. Visual (vision)

- 1. visible
- 2. ultraviolet

B. Chemical/Olfactory (pheromones)

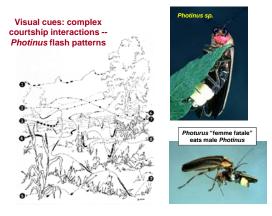
- 1. substrate-borne (incl. cuticular hydrocarbons)
- 2. airborne

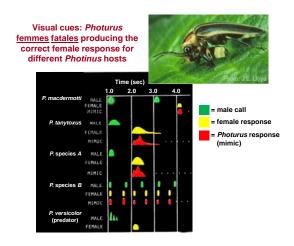
C. Mechanical (movement)

- 1. tactile (touch)
- 2. vibrational (periodic signals)

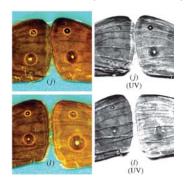
Visual cues: simple aggregation

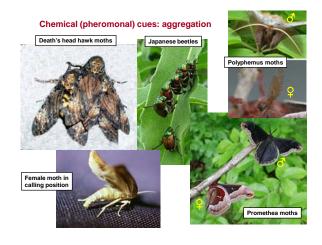






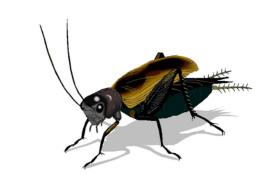
Ultraviolet reflectance ("hidden" visual cues)







Acoustical cues: inter- and intrasexual competition (more later)



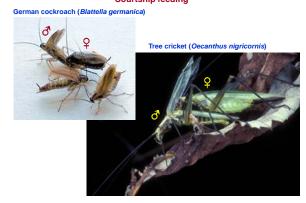
Acoustical cues (more later)



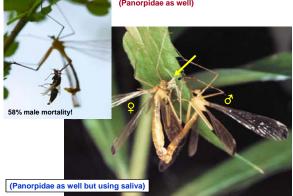


Ormia fly parasitizing a singing gryllid cricket male

Courtship feeding

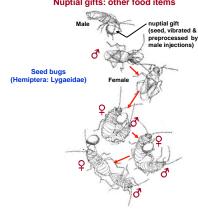


Nuptial gifts: prey items in hanging flies (Mecoptera: Bittacidae) (Panorpidae as well)





Nuptial gifts: other food items



Nuptial gifts: regurgitated food & deceit



Male-male aggression (intrasexual sexual selection)



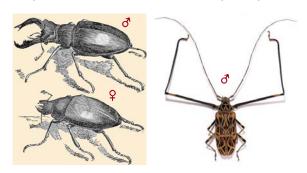


Territoriality: Defense of a resource (burrow)

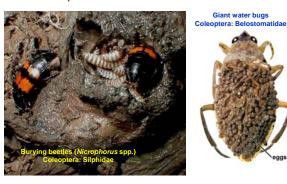




Consequences of sexual selection: Sexual size & shape dimorphism



Biparental care and sexual role reversal



Eusociality

