

30 March 2022

host manipulation

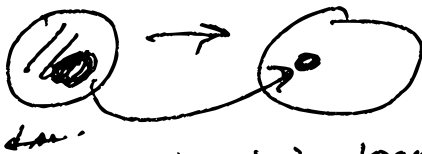
observational - direction of causality?

experimental

↳ compare control + exp infected individuals.

? is it a parasite adaptation
host adaptation

-
- upstream/downstream hosts



trophic transmission
free living stages

Dicrocoelium dendriticum

liver fluke

mammal → snail → ants

↓
↑
definitive host

Dd.

modifies ant behaviour

•
↳ happens a lot in insect parasite

Ophriocordyceps *

↳ "a phylogenetically old
sleeping behaviour"

- one fluke invades the ant's brain and modifies the behaviour - but is not transmitted.

Dictyostelium • slime mold,

Toxoplasma gondii.

intracellular parasite of neurons.
in rats, attracted to feline urine -
• sexual attraction?

→

Curatella australis

trematode parasite of molluscs

infects bivalve FEET

infected hosts burrow less
effectively

NOT photophilia.

similar behaviour in many
related species pairs

Phylogenetic approaches
to adaptation

host

