

INVASION

appearance of a species in a new habitat (usually outcompeting native species)

exotic vs invasive.

→ 'natural enemy' hypothesis

→ PARASITES!

(bottleneck)

lab examples:

parasites disrupt comp. balance
(moose/deer example)

fruit flies (*D. melanogaster*, *simulans*)

+ parasitoid wasp

DM wins in absence of wasp

+ wasp, simulans wins

→

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I ancestral habitat:

parasite present, invader present

novel habitat:

parasite absent, invader outcompetes native
ENEMY RELEASE

II:

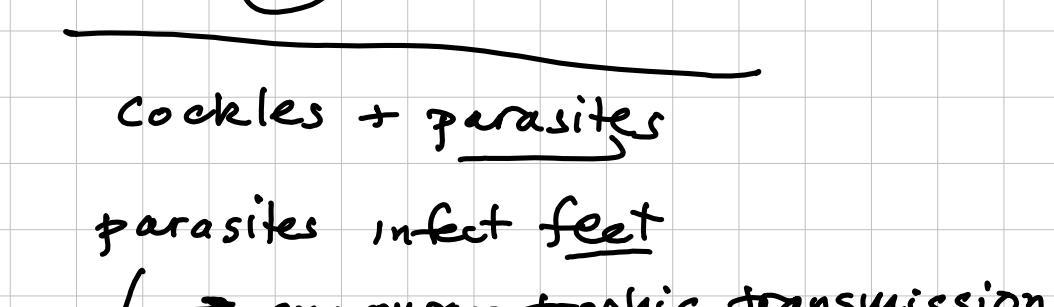
invader brings its parasite

wins by APPARENT competition

... many examples

parasite-mediated invasion

- ecosystem engineering



Cockles + parasites

parasites infect feet

→ encourage trophic transmission

→ parasites stay at surfaces

- reduces bioturbation (stirring)

- creates a hard surface

→ environment for other organisms