

7 Feb 2022

RED QUEEN dynamics.

Daphnia ~ Pasteuria ramosa

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Decaestecker et al 2007

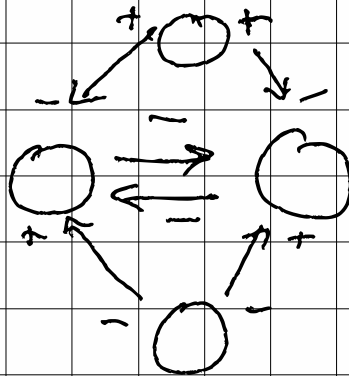
host-parasite communities

indirect interactions

density and trait mediated interactions

trophic cascades

apparent competition



Moose/  
white-tailed  
deer.

Parelaphostrongylus  
knuts

↗ snail

exclusion / coexistence :

tolerance

[ mathematical  
models ]

?

[ parasite-mediated  
invasions ]

natural enemy hypothesis

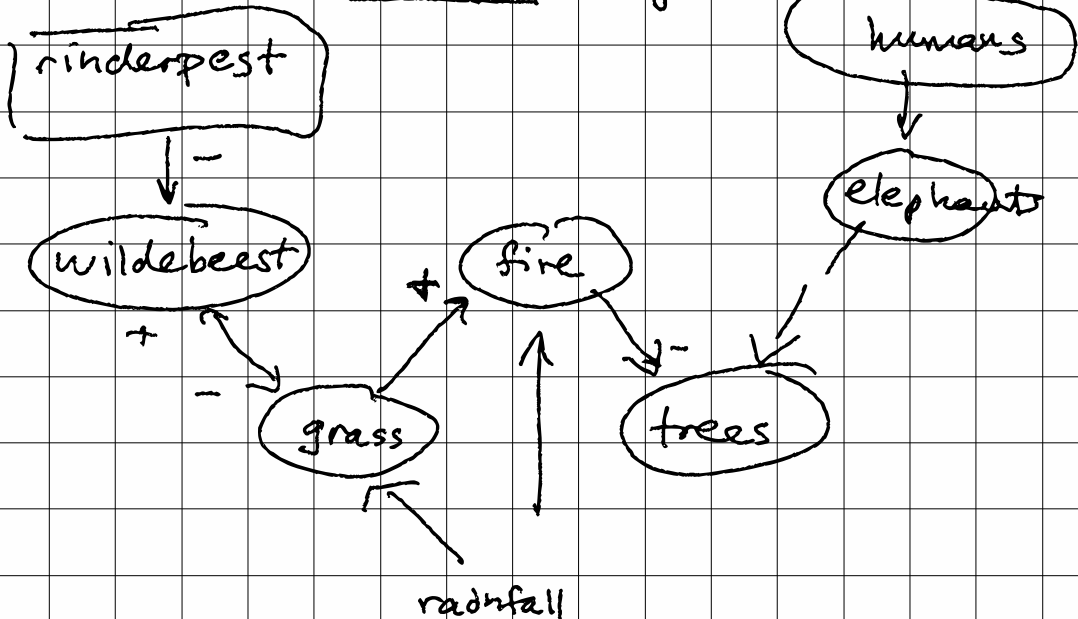
human history

RINDERPEST

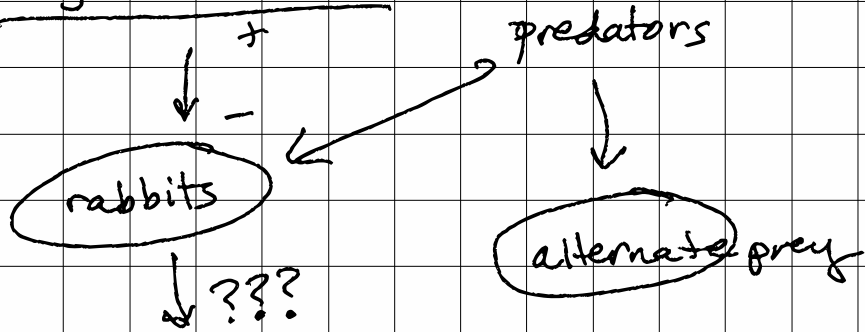
central Asian

↳ East Africa

↳ Serengeti ungulate



## myxomatosis



- increased woodland regeneration
- increase in many invertebrates, voles
- predator population drops
- ✓ • other rabbit parasites decline

do predators keep the herd healthy?

## META-ANALYSIS