

2 Mar 2022

# MYXOMATOSIS

- introduced to Australia  
1950 - 1951

case mortality: 99%

populations dropped by 90%

but ... CM started to drop

virus strain —

what concentration (titer) in  
the blood or skin of a rabbit?

(parasite load)

transmission to mosquito  
as a function of titer

transmission from mosq to rabbit  
case mortality, AND time to death

(how long can parasite infect  
& how fast can it transmit/day)?



HIV

& enormous replication rate  
enormous mutation rate  
WITHIN-HOST evolution  
→ drug resistance

COCKTAIL .

SPVL

correlated with  
transmission probability

SERODISCORDANT couple

Rakai, Uganda =  
LONGITUDINAL

→ correlated with time to progression