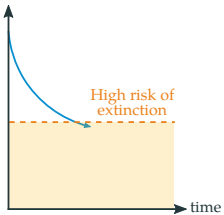


High population
size



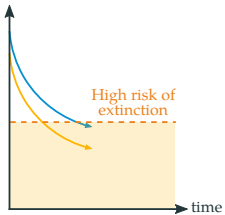
Population size



High population
size



Population size

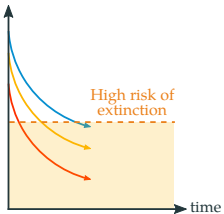


High population
size



Low population
size

Population size

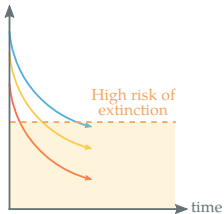


High population size



Low population size

Population size

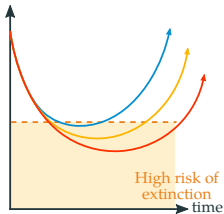


High mutation rate



Low mutation rate

Population size

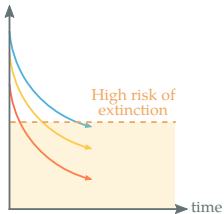


High population size



Low population size

Population size

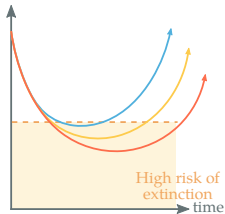


High mutation rate

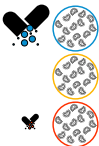


Low mutation rate

Population size

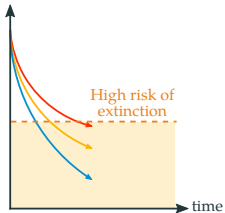


High environmental stress



Low environmental stress

Population size

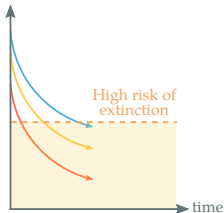


High population size



Low population size

Population size

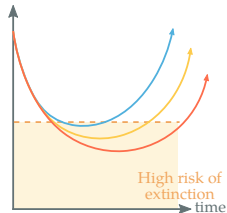


High mutation rate

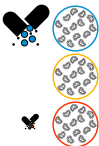


Low mutation rate

Population size

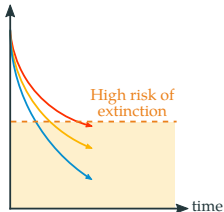


High environmental stress



Low environmental stress

Population size

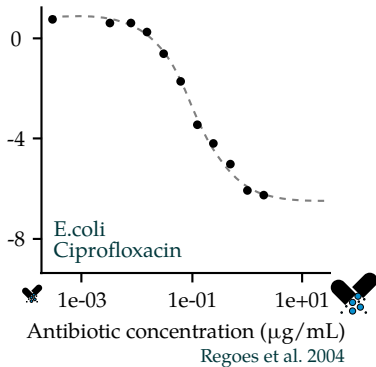


Effect of environmental change on
demography

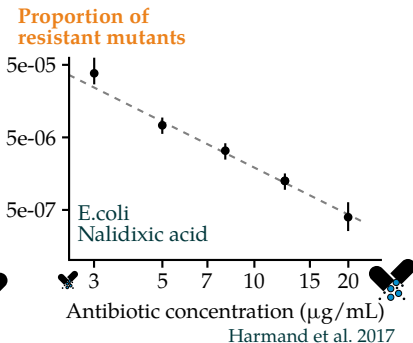
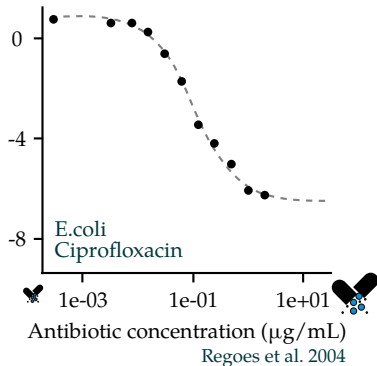
BUT

Fixed probability
of apparition of resitant mutations
across environments

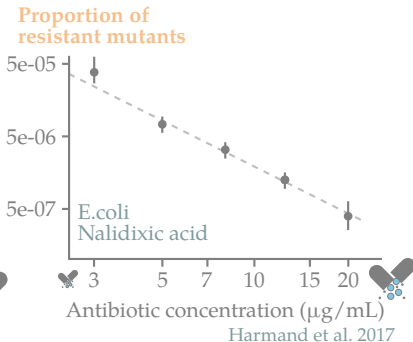
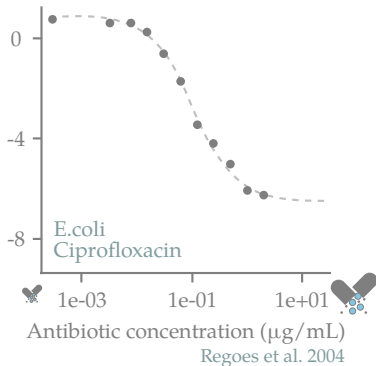
Maladaptation of the ancestor
= level of **environmental stress**



Maladaptation of the ancestor
= level of **environmental stress**



Maladaptation of the ancestor
= level of **environmental stress**



Derive ER models for asexual organisms integrating a **dependence between the environmental and the genetic contexts**