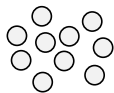


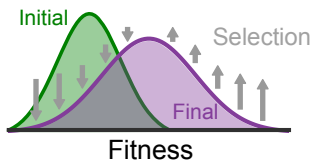
Evolutionary dynamics of pre-existing and *de novo* genetic variation

S. cerevisiae

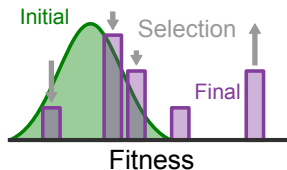


Antimicrobial drugs

Many mutations
of similar effect



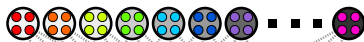
Few strong-effect mutations



Decomposition of fitness effects of mutations

Genetic cross

Ancestral clones



Evolved clones

Recombinant library
of reshuffled genotypes



▽ Driver mutation
○ Passenger mutation