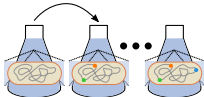


Adaptive Laboratory Evolution



⚡ Toxic chemical stress

Aggregate all observed variants

ALEdb

3093 genomes



MSTLEGRGFTT EQEALVVKMSA
MVHLTFEEKSA -----VTALMG
FVAIASASKTRELCMKSLERAKVG
FVAIASASKTRELCMKSLERAKVG

E. coli WT alleleome
12,661 genomes

conditions

Selection experiment



Growth rate



genes

Exploring the observed feasible sequence solution space

