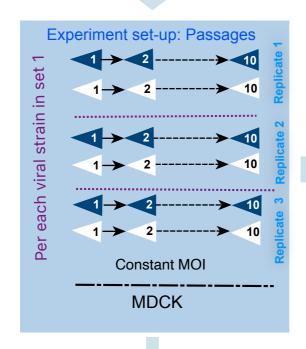
A / Puerto Rico / 8/34 (PR8; H1N1) WT Site direct mutagenesis Viral strains set 1 A B A+B X Fitness landscape 1



Observations in two conditions

Control (no drug) and treatment with favipira

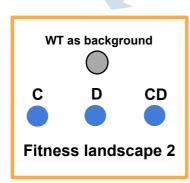
- P.F.U measures per each passage
- Time to extinction per replicate per str

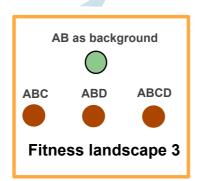
Whole genome sequencing

Population genetics=
allele trajectories, SNPs counts, Ts\Tv, Ne and s values
estimates

Identification of new mutations

Site direct mutagenesis





Validation of mutations
Two fitness measures

1) 48 h.p.i growth curve P.F.U Control (0 uM)