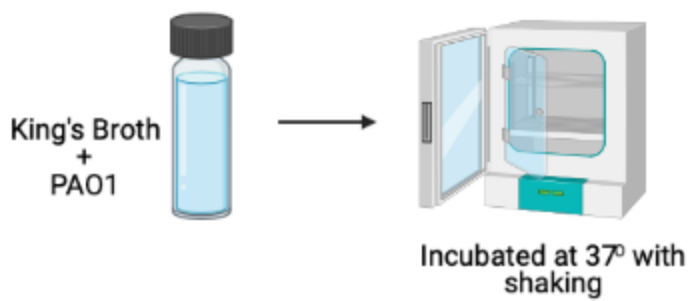
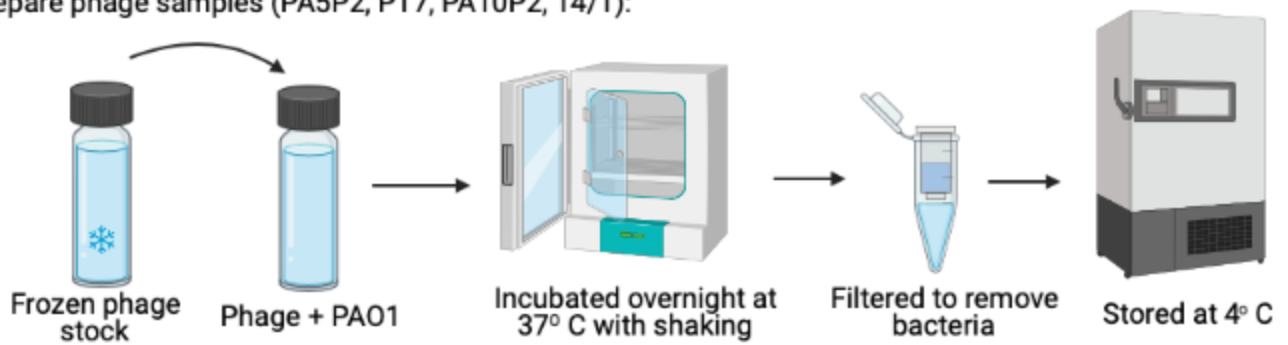


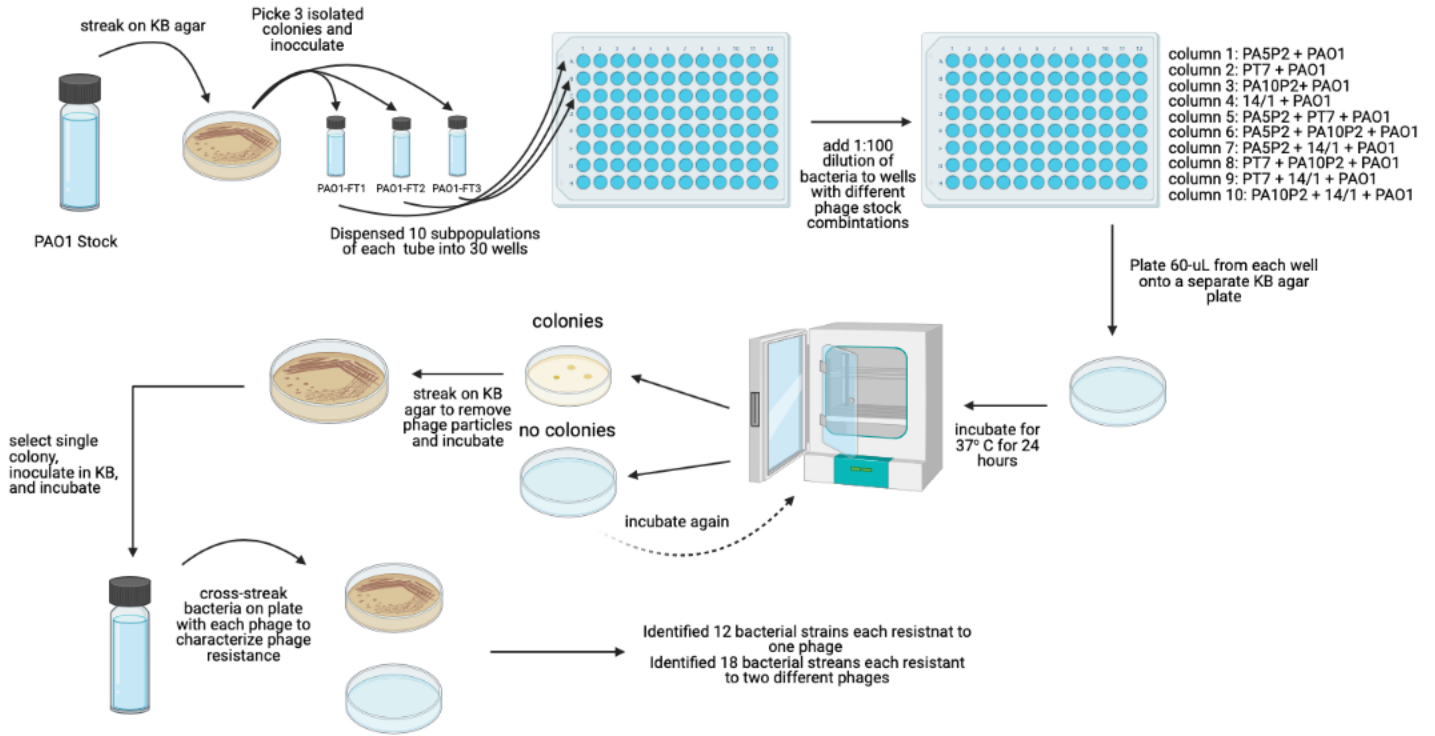
To culture *P. aeruginosa* PAO1:



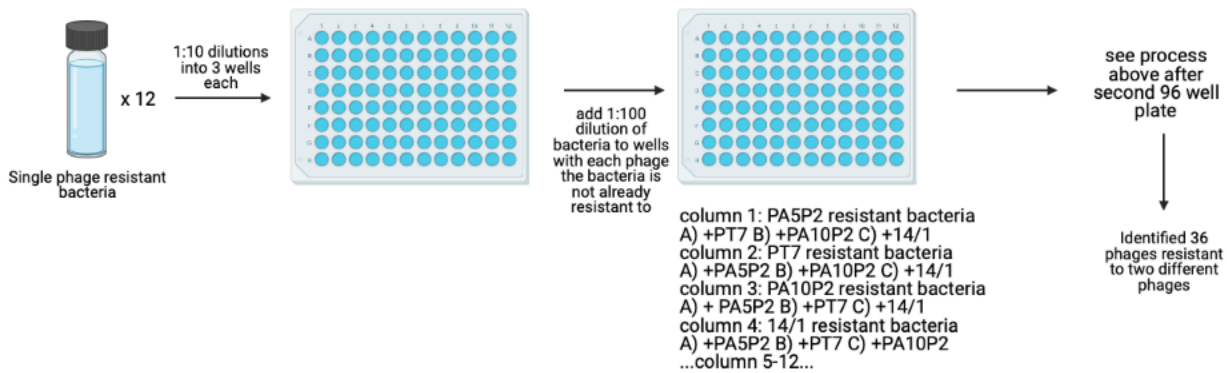
To prepare phage samples (PA5P2, PT7, PA10P2, 14/1):



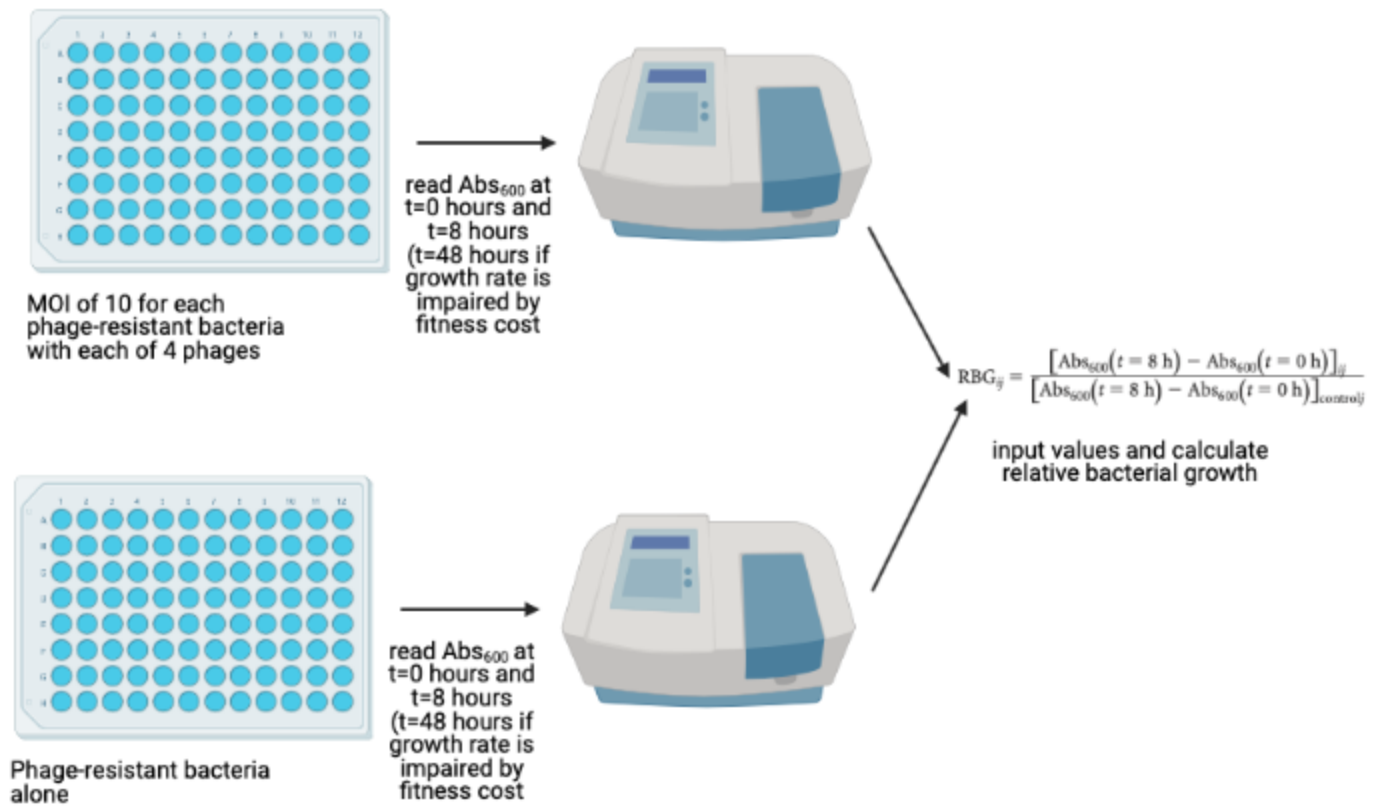
**Simultaneous Selection and First Step to Sequential Selection:**



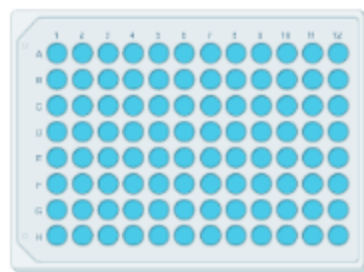
**Second Step to Sequential Selection:**



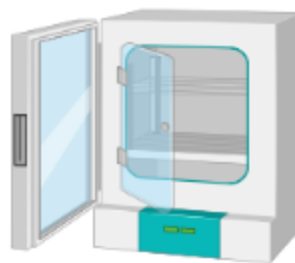
Determine strength of resistance selected at stages 1 and 2 of sequential selection and of simultaneous selection:



To assess fitness cost imposed by different mutations:



Phage-resistant bacteria in KB

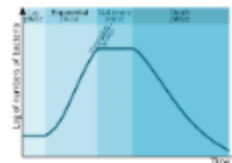


Incubate at 37°C



Every 30 minutes shake and measure Abs<sub>600</sub> (continue for 48 hours)

plot to make growth curve and measure 1) lag time, 2) max. growth rate, 3) integral of growth curve, 4) max Abs<sub>600</sub>



relative fitness = maximum growth rate / mean ancestral growth rate (bacteria with no phage-resistance)

# Sequencing and analysis of phage-resistant bacteria mutants

