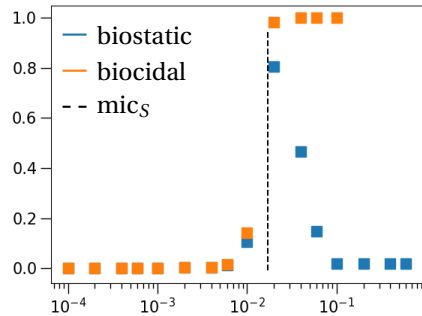
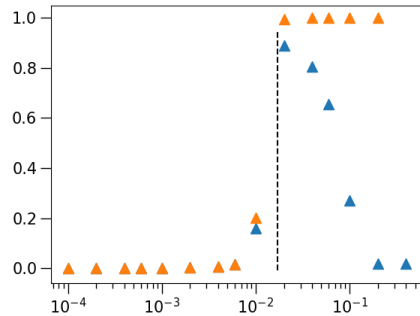


frequency resistant individuals

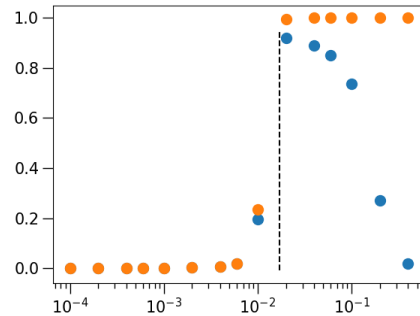
$\text{mic}_R = 5 \times \text{mic}_S$



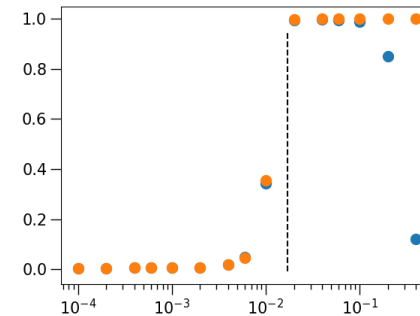
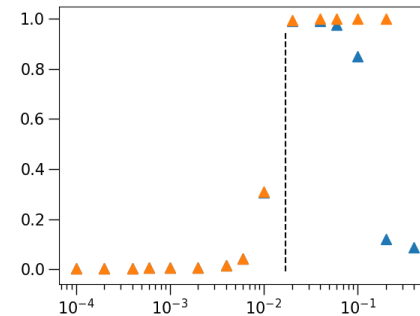
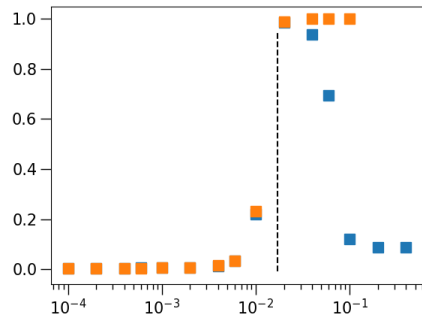
$\text{mic}_R = 10 \times \text{mic}_S$



$\text{mic}_R = 20 \times \text{mic}_S$



birth
competition



death
competition

antibiotic concentration c