

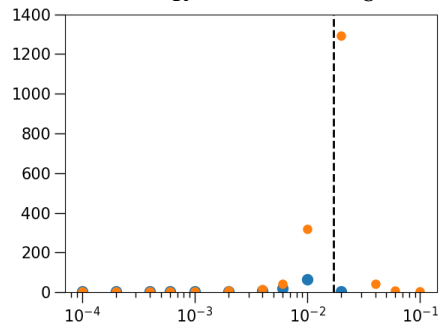
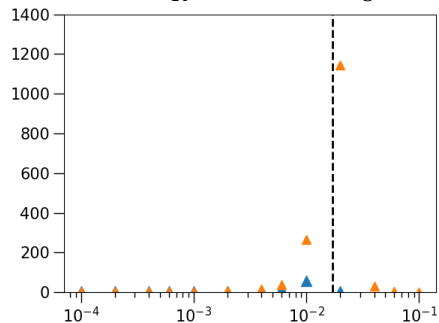
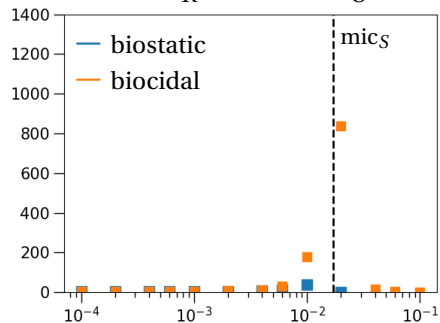
number resistant individuals

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

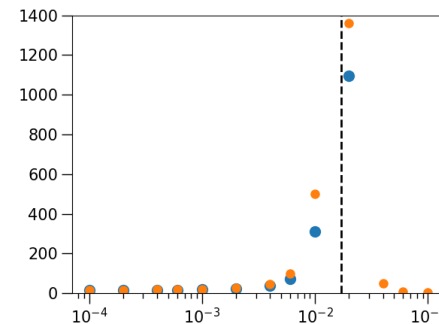
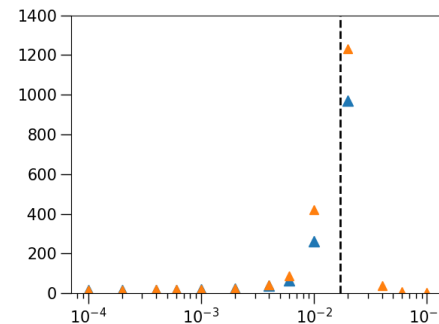
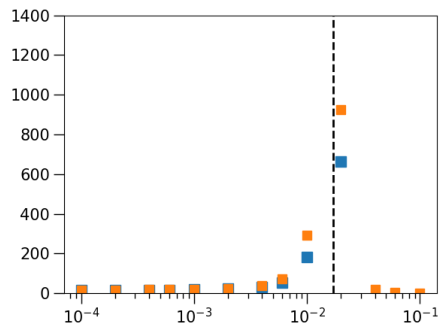
$$\text{mic}_R = 10 \times \text{mic}_S$$

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

birth  
competition



death  
competition



antibiotic concentration  $c$