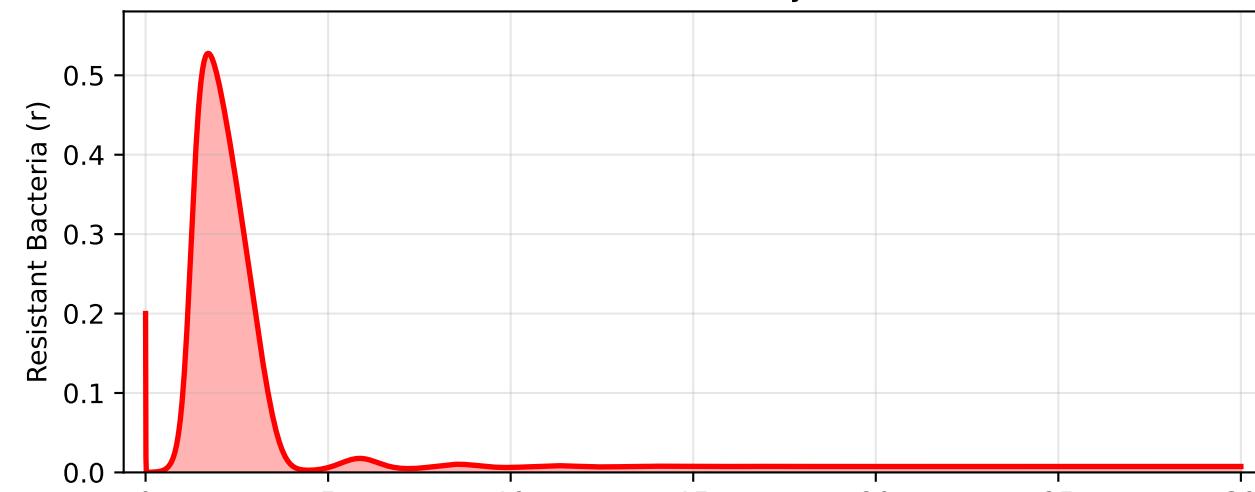


**Scenario 4: Oscillatory Dynamics**  
**Final  $R_s = 0.513$ , Final  $R_r = 19.845$**

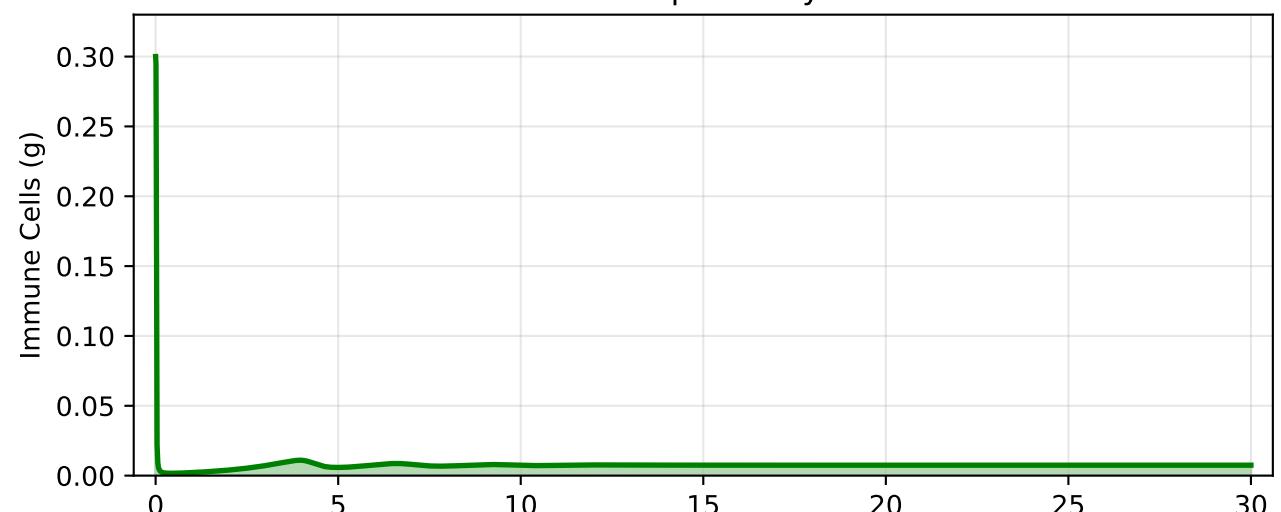
Sensitive Bacteria Dynamics



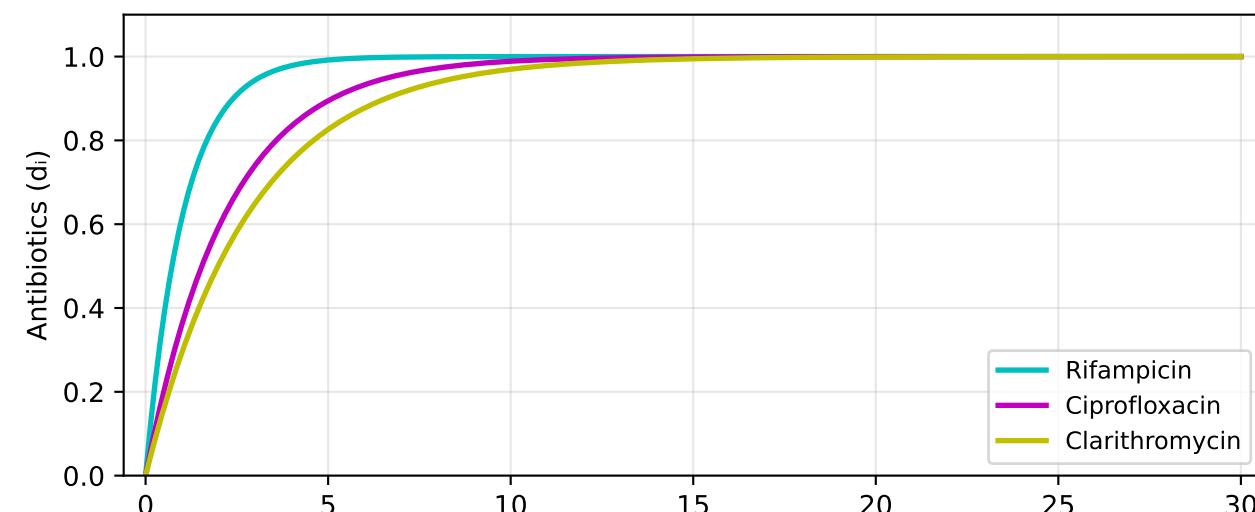
Resistant Bacteria Dynamics



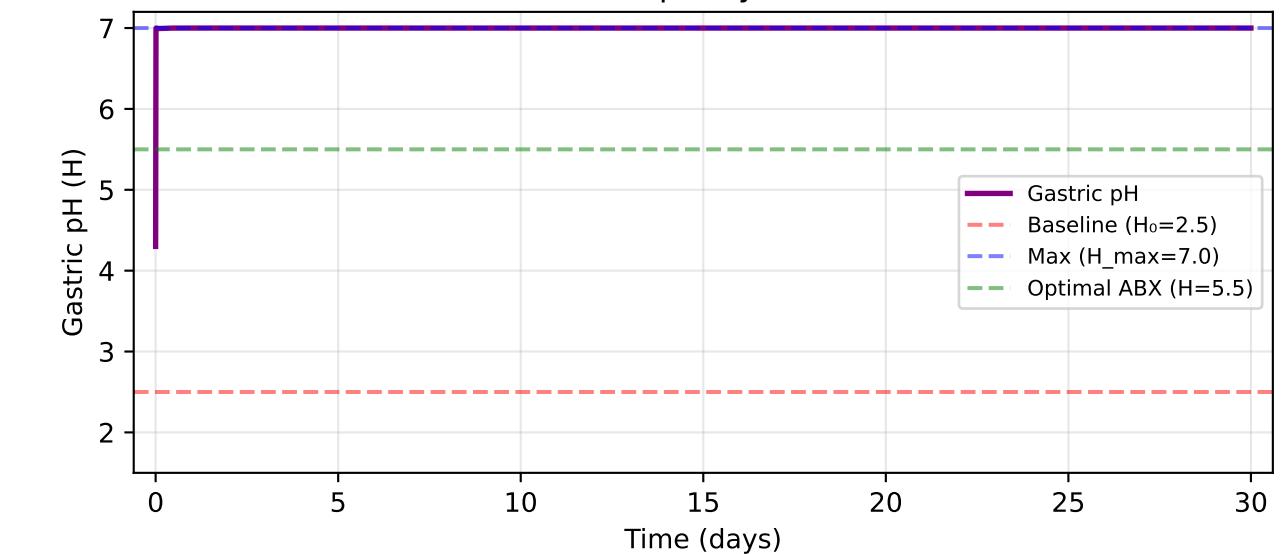
Immune Response Dynamics



Antibiotic Concentrations



Gastric pH Dynamics



Dietary Perturbation

