

Design 1

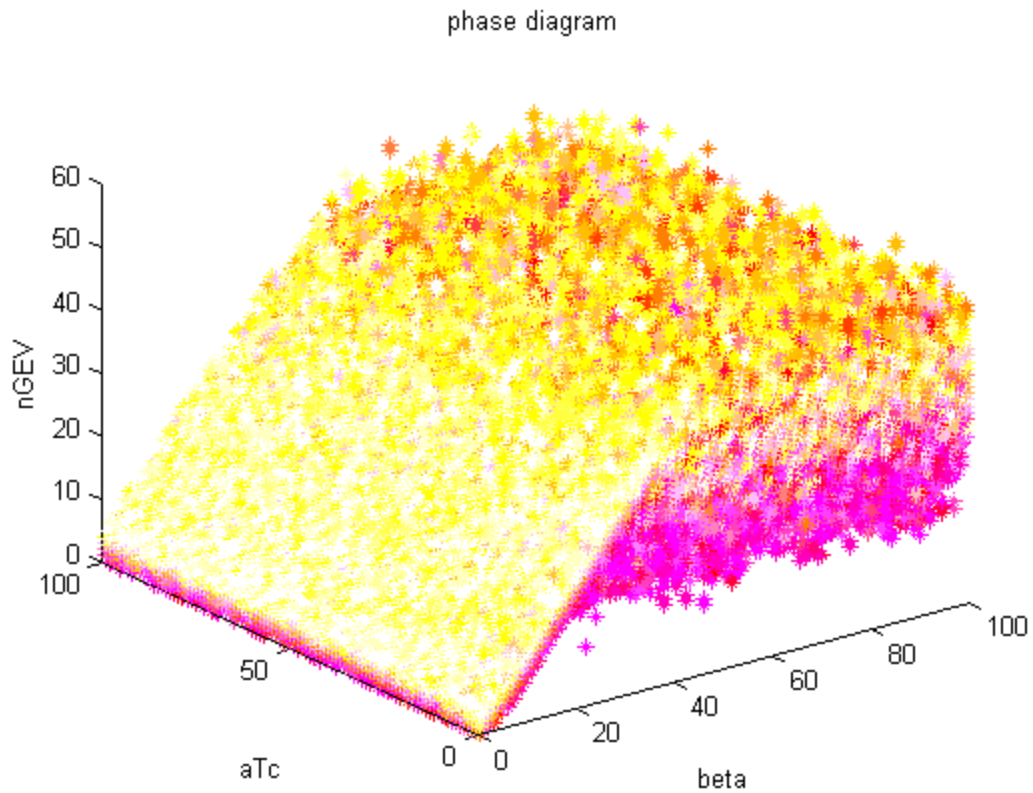


Figure 1. Results of a 2D Bifurcation analysis of the aTc and beta drug levels. Plot shows the effect varying aTc and beta levels has on nGEV levels. Expression of GEV is measured by the amount of nGEV found in a cell at the last 5 time-steps of the simulation. The simulation was conducted 25 times (with initial nGEV and nrtTa molecule populations ranging between 0 and 4) for each value of aTc and beta studied. The values of aTc and beta studied were the 100 integers between 0 and 100. The populations of nGEV at the last 5 time-steps of the simulation are plotted in a different color for every combination of initial nGEV and nrtTa molecule populations.

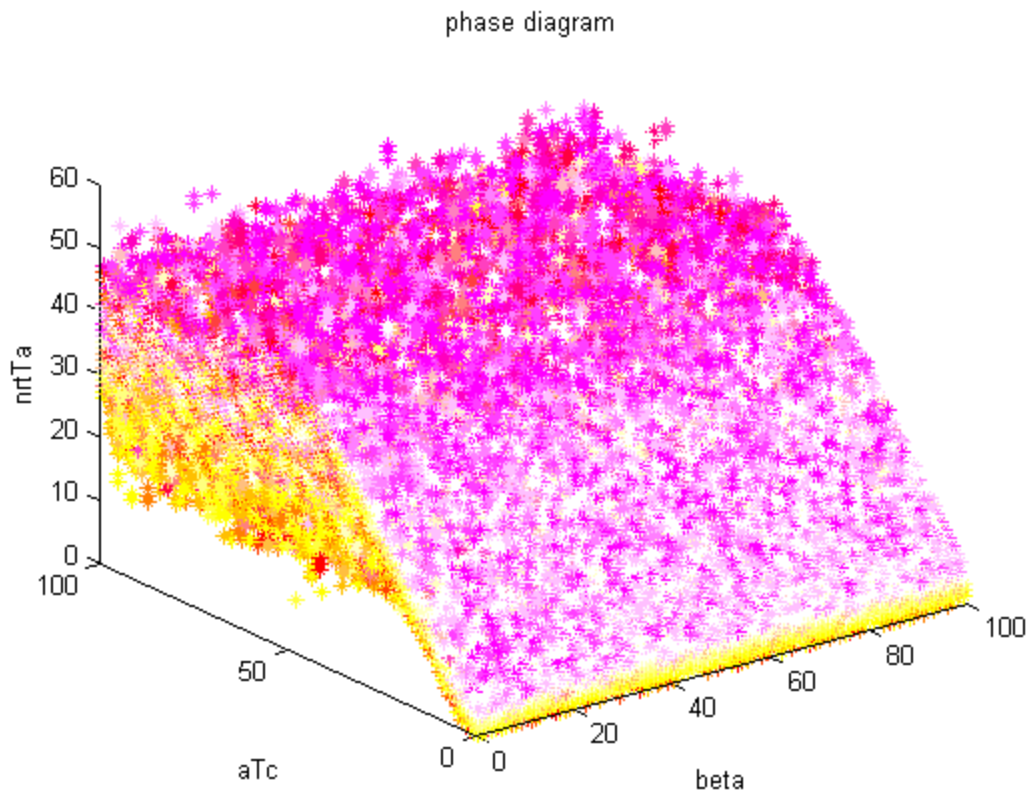


Figure 2. Results of a 2D Bifurcation analysis of the aTc and beta drug levels. Plot shows the effect varying aTc and beta levels has on nrtTa levels. Expression of rtTa is measured by the amount of nrtTa found in a cell at the last 5 time-steps of the simulation. The simulation was conducted 25 times (with initial nGEV and nrtTa molecule populations ranging between 0 and 4) for each value of aTc and beta studied. The values of aTc and beta studied were the 100 integers between 0 and 100. The populations of nGEV at the last 5 time-steps of the simulation are plotted in a different color for every combination of initial nGEV and nrtTa molecule populations.

Design 2

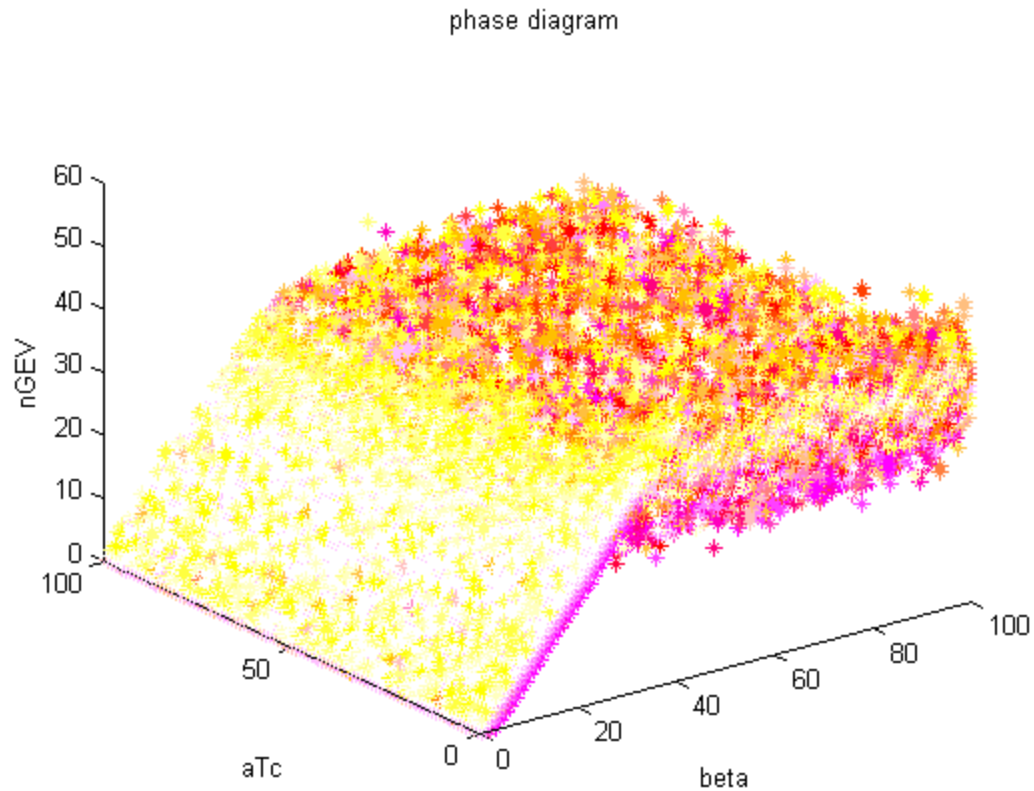


Figure 3. Results of a 2D Bifurcation analysis of the aTc and beta drug levels. Plot shows the effect varying aTc and beta levels has on nGEV levels. Expression of GEV is measured by the amount of nGEV found in a cell at the last 5 time-steps of the simulation. The simulation was conducted 25 times (with initial nGEV and nrtTa molecule populations ranging between 0 and 4) for each value of aTc and beta studied. The values of aTc and beta studied were the 100 integers between 0 and 100. The populations of nGEV at the last 5 time-steps of the simulation are plotted in a different color for every combination of initial nGEV and nrtTa molecule populations.

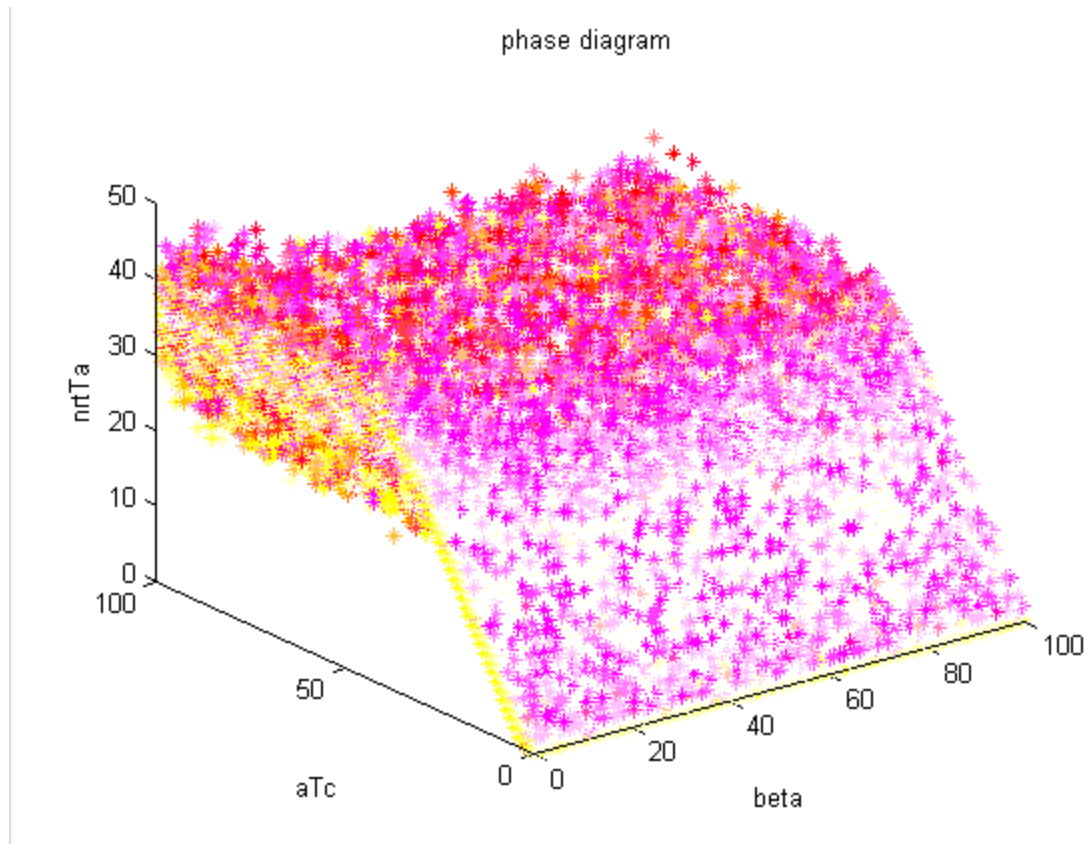


Figure 4. Results of a 2D Bifurcation analysis of the aTc and beta drug levels. Plot shows the effect varying aTc and beta levels has on nrtTa levels. Expression of rtTa is measured by the amount of nrtTa found in a cell at the last 5 time-steps of the simulation. The simulation was conducted 25 times (with initial nGEV and nrtTa molecule populations ranging between 0 and 4) for each value of aTc and beta studied. The values of aTc and beta studied were the 100 integers between 0 and 100. The populations of nGEV at the last 5 time-steps of the simulation are plotted in a different color for every combination of initial nGEV and nrtTa molecule populations.