Design 1

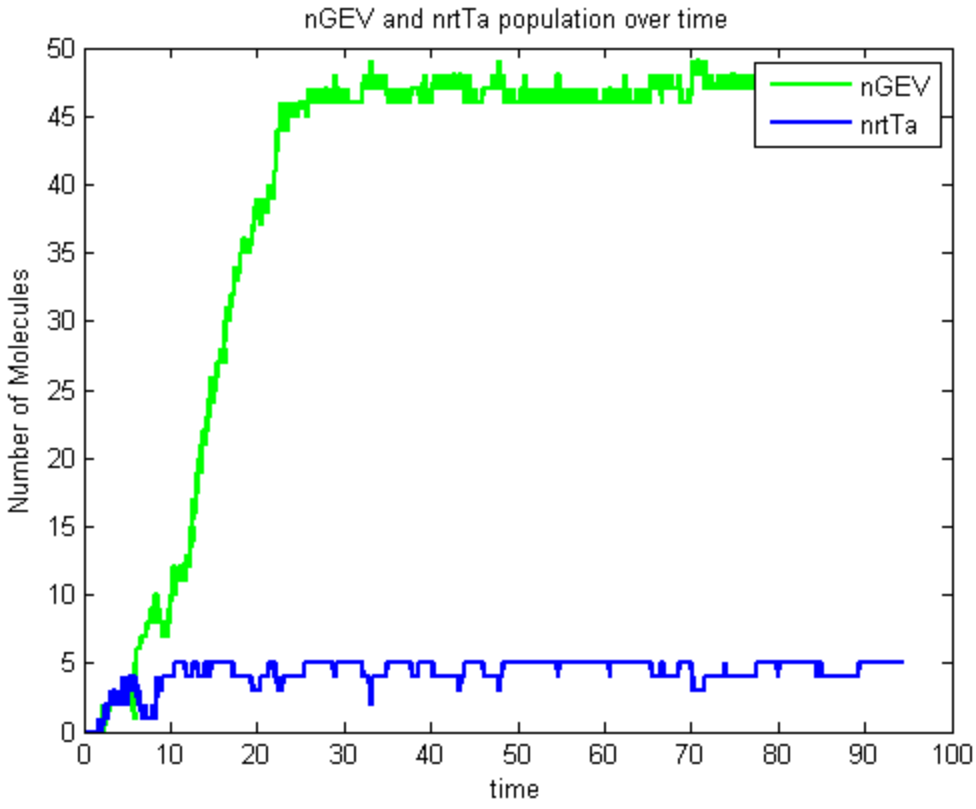

Figure 1. Result of a Simulation of the first design of the tristable-switch over 10000 time-steps. Initial molecule populations were 5 aTc and 50 beta. Expression of GEV and rtTa is measured by the number of nGEV and nrtTa molecules found in the cell.

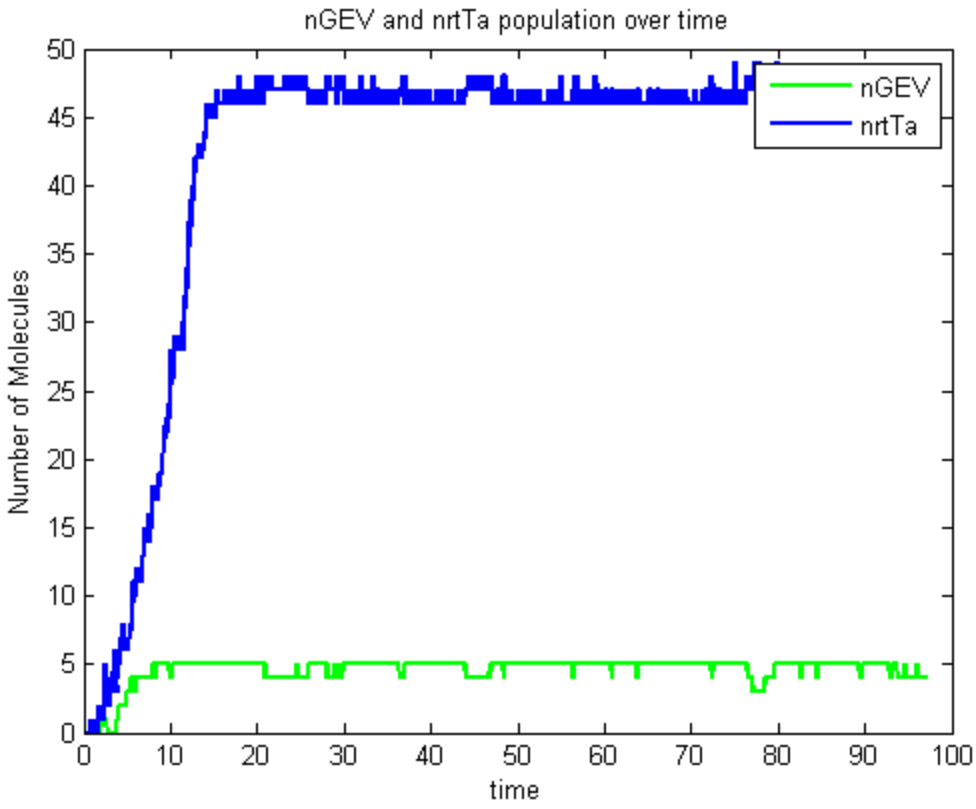

Figure 2. Result of a Simulation of the first design of the tristable-switch over 10000 time-steps. Initial molecule populations were 50 aTc and 5 beta. Expression of GEV and rtTa is measured by the number of nGEV and nrtTa molecules found in the cell.

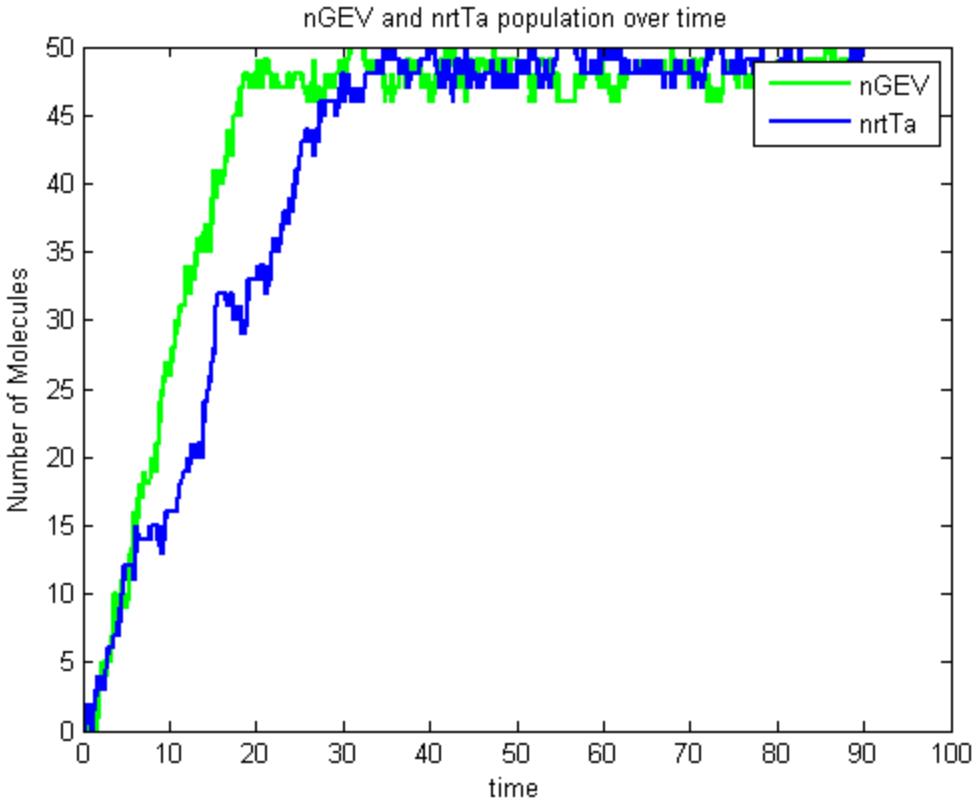

Figure 3. Result of a Simulation of the first design of the tristable-switch over 10000 time-steps. Initial molecule populations were 50 aTc and 50 beta. Expression of GEV and rtTa is measured by the number of nGEV and nrtTa molecules found in the cell.

Design 2

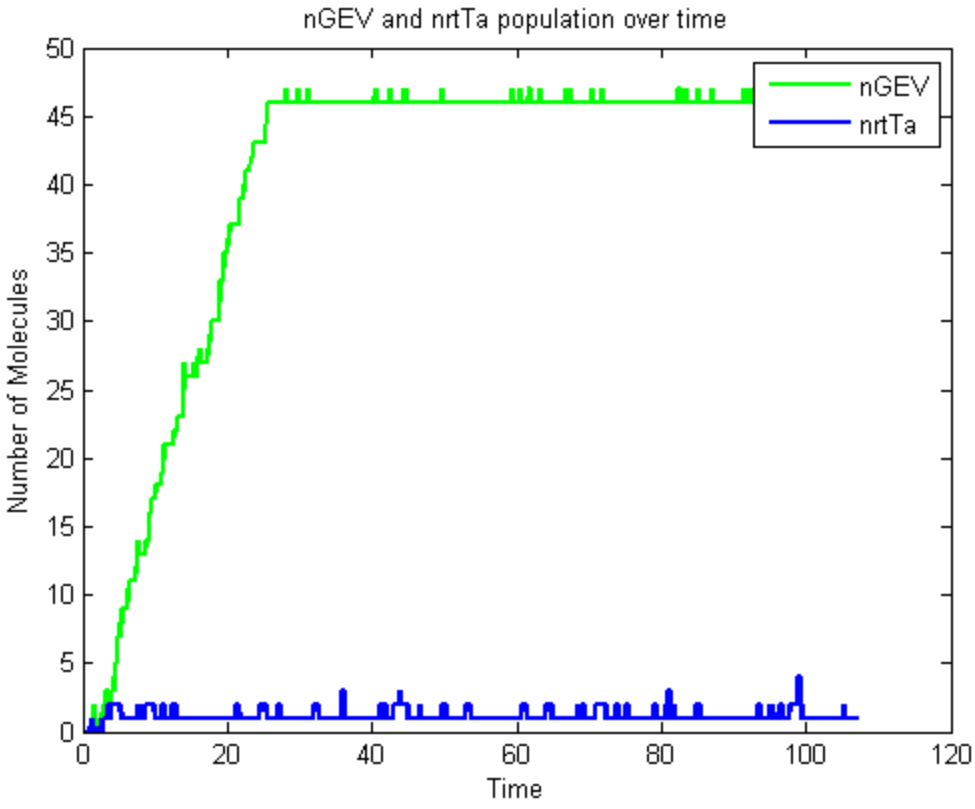

Figure 4. Result of a Simulation of the second design of the tristable-switch over 10000 time-steps. Initial molecule populations were 5 aTc and 50 beta. Expression of GEV and rtTa is measured by the number of nGEV and nrtTa molecules found in the cell.

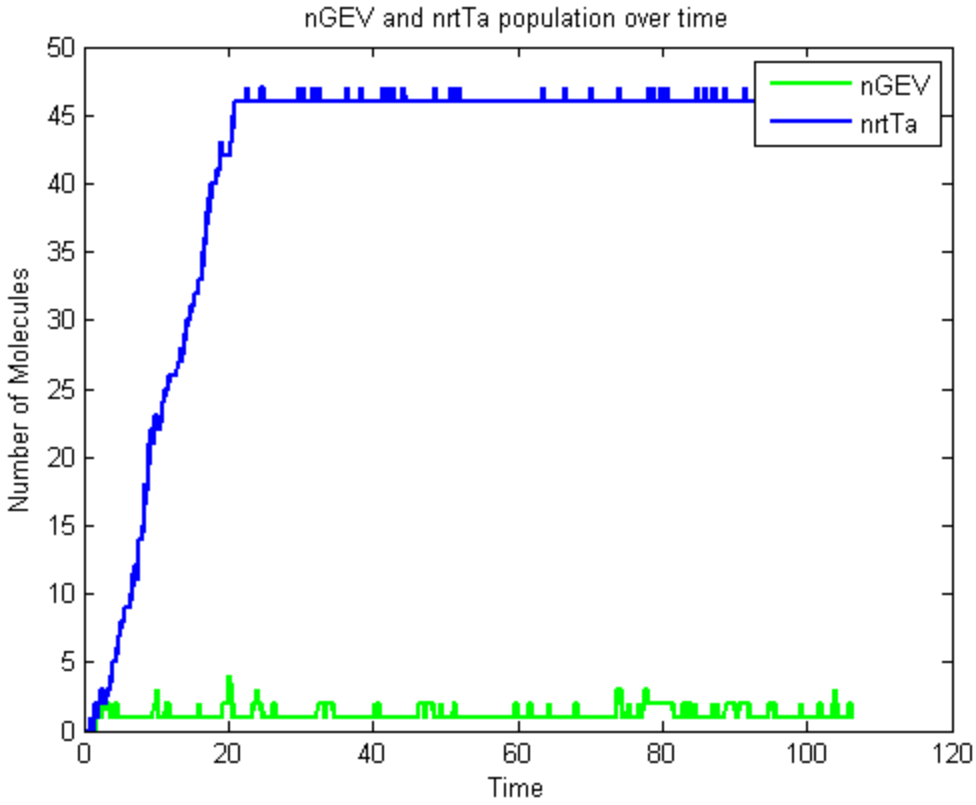

Figure 5. Result of a Simulation of the second design of the tristable-switch over 10000 time-steps. Initial molecule populations were 50 aTc and 5 beta. Expression of GEV and rtTa is measured by the number of nGEV and nrtTa molecules found in the cell.

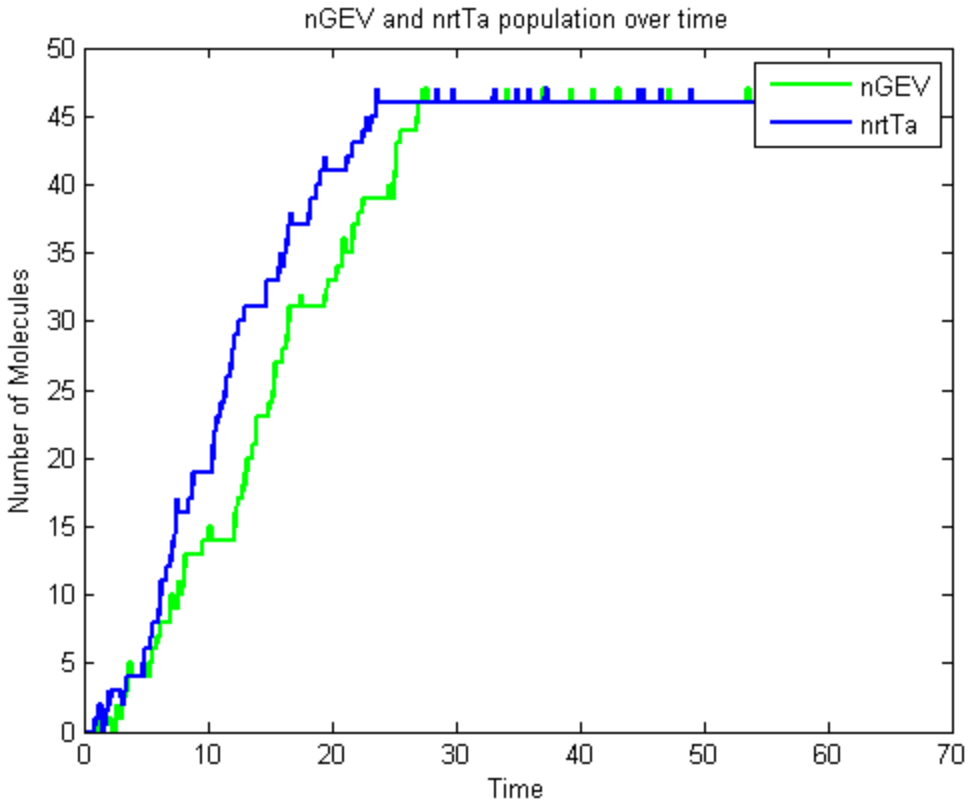

Figure 6. Result of a Simulation of the second design of the tristable-switch over 10000 time-steps. Initial molecule populations were 50 aTc and 50 beta. Expression of GEV and rtTa is measured by the number of nGEV and nrtTa molecules found in the cell.