SIR using Gillespie's discrete event model 00e-02,  $\gamma = 1.00e-03$ ,  $\mu = 3.91e-05$ ,  $\varepsilon = 0.00e+00$ ,  $I_0 = 5.00e-02$ ,  $N_0$ Infected Equilibrium 0.6 fraction of population 0.4 0.2 0.0 5000 7500 1000012500150001750020000 time *t*