$N_{\rm tot} = 580K, \ N_{\rm init} = 100, \ \mu = 40.0, \ \sigma_{\mu} = 0.0, \ \beta = 0.01, \ \sigma_{\beta} = 0.0, \ \rho = 0.0, \ \lambda_E = 1.0, \ \lambda_I = 1.0, \ \epsilon_{\rho} = 0.01, \ f_{02} = 0.0, \ \text{age}_{\rm mixing} = 0.0, \ \text{connect}_{\rm algo} = 20.0, \ \lambda_E = 1.0, \ \lambda_I = 1.0, \ \lambda_I = 1.0, \ \lambda_I = 1.0, \ \lambda_I = 0.0, \ \lambda_I$ 

