$N_{\mathrm{tot}} = 580K, \ N_{\mathrm{init}} = 100, \ N_{\mathrm{ages}} = 1, \ \mu = 40.0, \ \sigma_{\mu} = 0.0, \ \beta = 0.01, \ \sigma_{\beta} = 0.0, \ \rho = 0.0, \ \lambda_{I} = 1.0, \ \epsilon_{\rho} = 0.01, \ f_{02} = 0.0, \ \mathrm{age_{mixing}} = 1.0, \ \mathrm{algo} = 20.0, \ \mathrm{alg$ 

