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| Fig. | Description | Simulation (code\_sims/) | Plotting (code\_plt/) |
| 1 | Schematic | No code | No code |
| 2 | Uncorr. Gamma | main\_SIRvariation\_Gamma\_072924.m | main\_plt\_Figure\_Gamma\_072824.m |
| 3 | Uncorr. low  Var. Gaussian | main\_SIRvariation\_Gaussian\_073024\_lowvariance.m | main\_plt\_Figure\_Gaussian\_lowvariance\_072924.m |
| 4 | Uncorr. high Var. Gaussian | main\_SIRvariation\_Gaussian\_073024\_correlations.m\* | main\_plt\_Figure\_Gaussian\_072924.m |
| 5 | Corr. vs. Speed “ ” vs. Strength | main\_SIRvariation\_Gaussian\_073024\_correlations.m\* | main\_plt\_Figure\_correlations\_speed\_072924.m |
| 6 | Index Case Variation | 1.  main\_SIRvariation\_Gaussian\_073024\_correlations\_indexsensitivity.m  2. simulate\_StochasticGillespieEnsembles.m | main\_plt\_Figure\_Gaussian\_indexsensitivity\_stochasticsims.m |
| 7 | Fixed R0 Timeslice | main\_SIRvariation\_Gaussian\_073024\_correlations\_matchR0.m | main\_plt\_Figure\_correlations\_speed\_matchR0.m |
| 8 | Fixed R0 dist. | main\_SIRvariation\_Gaussian\_073024\_correlations\_matchR0.m | main\_plt\_Figure\_distributionssovertime\_working.m |
| 9 | Overdispersed Dist. | main\_SIRvariation\_NegBin\_081424\_working.m | main\_plt\_Figure\_distributionssovertime\_working\_NegBin.m |
| S1 | Initial joint Dist. | main\_SIRvariation\_Gaussian\_073024\_correlations.m | main\_plt\_Figure\_correlations\_initjoints\_073124.m |
| S2 | Fixed R0 Coeff. Var | main\_SIRvariation\_Gaussian\_073024\_correlations\_matchR0.m | main\_plt\_FigureSuppGaussian\_FOS\_CVs.m |
| S3 | Overdispersed Coeff. Var. | main\_SIRvariation\_NegBin\_081424\_working.m | main\_plt\_FigureSuppNegBin\_FOS\_CVs.m |
| S4 | Stochastic Histograms | simulate\_StochasticGillespieEnsembles.m | main\_plt\_Figure\_stochastic\_summary\_073024.m |

\* change correlation coefficient for the appropriate case