**What did we do?**

* Based on research data we decided to take
* re = 6
* ri = 12
* Generated a parameter search code to go over possible jie,jii,jei, je0, ji0.

The constraints were:

* The known ratio between p’s (from literature)
* The known ratio between Ne and Ni (Ne = Ni \*4)
* Kii, Kie, Kei are fixed as Kee, which is K = Kee = pee \* Nee
* The j values needed to conform to:
* We calculated the error of the calculated rates of each parameter set (1x6 vector) from the wanted re and ri.

rate\_error = abs ( 1 - [ re\_result/re\_wanted , ri\_result/ri\_wanted] )

* We looked for the j parameter set with the minimal error
* We fixed the spike trains in the simulation to remove the transient

**Stuff we need to do:**

* Change the simulation function so that the inputs are the j’s instead of the p’s
* Plot the population of firing rates of all our neurons
* Make sure the rates are distributed in a log-normal distribution
* Remove the E cells with firing rates below the 10th percentile of the population from the calculation of correlation between spike trains
* Re-add the SOM