Paper: Do brain networks evolve by maximizing their information flow capacity?

C.elegans.tar file contains the Fortran source codes, network analysis and spectral plots to reproduce all the plots in the figures of the paper which are related to C.elegans.

Humans.tar file contains the Fortran source codes, network analysis and spectral plots to reproduce all the plots in the figures of the paper which are related to the 6 human subjects and the averaged ones.

model\_for\_brain\_evolution.tar contains the Fortran source codes, network analysis, spectral distances and spectral plots for the parameter spaces and the spectral distances based on the average parameter spaces for the model of brain evolution of 60 and 120 neurons. These data files have been used to reproduce all plots in the figures of the paper which are related to the model for brain evolution.

spectral\_plots\_study\_FINAL\_RESULTS.tar contains the spectral plot data for the c.elegans study, for panels q) and r) of Fig. 7, for the humans and for the two cases A and B for the model of brain evolution of 60 neurons.