

List of Tables

<i>Table</i>	<i>Title</i>	<i>page</i>
4.1	List of gene obtained within unique set of genes after gene ontological enrichment of each clusters.	33
5.1	Topological properties of CeNN and its controls.	37
7.1	Neurotransmitter list and their actions performed in <i>C. elegans</i> neuronal system. Data collected from WormAtlas [Altun, Z.F., Herndon, L.A., Crocker, C., Wolkow, C.A., Lints, R. and Hall, 2016].	54
7.2	Graph theoretical properties of CeNN and signed subgraphs.	56
A.1	Neurons of <i>C. elegans</i> . These neurons could be divided into somatic (277; white boxes), pharyngeal (20; yellow boxes) and unconnected (5; grey boxes). For studies presented in Chapter 4, somatic as well as pharyngeal neurons (297) were used. For the remaining studies, presented in Chapter 5, Chapter 6, and Chapter 7, somatic neurons were considered.	71
B.1	Unique genes expressed in each neuronal group. 116 neuronal groups and 433 non redundant genes.	73
C.6	Differential topological properties of distance constraint random model at different values of α starting from an ER control.	84
C.7	Differential properties of distance constraint synaptic plasticity model at different values of α starting from DD control.	85
C.8	List of 34 driver neurons identified.	85
D.1	Network based features of each subject that will be used for classification between two classes.	87

