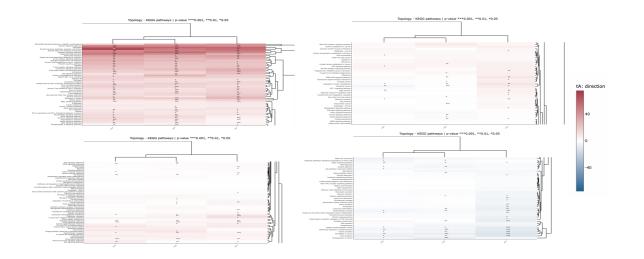
Supplementary figure 7



Supplementary figure 7. Topology analysis of KEGG pathway enrichment was performed to identify pathways activated or suppressed by $A\beta_{25-35}$ treatment in CTR and exon 2 -/- neurons (res 1, 2 and 3). Several relevant pathways were activated by $A\beta_{25-35}$ treatment including apoptosis, p53, MAPK signalling, cholinergic synapses in neurons of both genotypes. Fewer relevant pathways were inhibited by $A\beta_{25-35}$ treatment including glutamatergic synapses and axon guidance in neurons of both genotypes. Three pathways altered by $A\beta_{25-35}$ treatment only in CTR neurons were identified: cell cycle (activated), long term depression (inhibited) and complement and coagulation regulation (activated). Comparisons: res1: untreated CTR vs $A\beta_{25-35}$ treated CTR iPSC-neurons, res2: untreated A4 vs $A\beta_{25-35}$ treated A4 iPSCneurons and res3: untreated D1 vs $A\beta_{25-35}$ treated D1 iPSC-neurons. tA: the observed total perturbation accumulation in the pathway, pPERT: probability to observe a total accumulation more extreme than tA only by chance. pPERT*<0.05, **<0.01 and ***<0.001