

SUPPLEMENTARY DATA

Table 1. DAVID annotation analysis.

Term	Count	%	P-value	Fold Enrichment
PFC_MMC_Female_3w_Up				
olfactory receptor activity	5	16.67	0.037	3.56
PFC_MMC_Female_3w_Down				
positive regulation of Notch signaling pathway	2	1.45	0.036	54.86
neural crest cell differentiation	3	1.45	0.028	11.35
PFC_MMC_Male_3w_Down				
endoplasmic reticulum part	3	21.43	0.006	20.63
Endosome	3	21.43	0.009	17.40
HIPP_CPP_Female_3w_Down				
zinc-finger	4	40	0.013	6.62
zinc ion binding	4	40	0.049	3.77
von Willebrand factor, type C	3	30	1.83E-04	130.26

“Count” - shows the number of genes belonging to a defined GO:term in a particular comparison group, “%” – shows the percentage these genes represent out of all genes changed in a particular comparison group, “P-value” – shows significance (only the GO:terms that had p-value lower than 0.05 are shown) and “fold enrichment” – shows fold enrichment (FE) of a certain pathway, calculated according to the following formula: $FE = n/N / x/X$, where n – the number of genes involved in a given pathway in a given sample, N – the total number of genes changed in a given sample, x – the total number of genes in the genome belonging to a given pathway, X – the total number of genes in the genome.

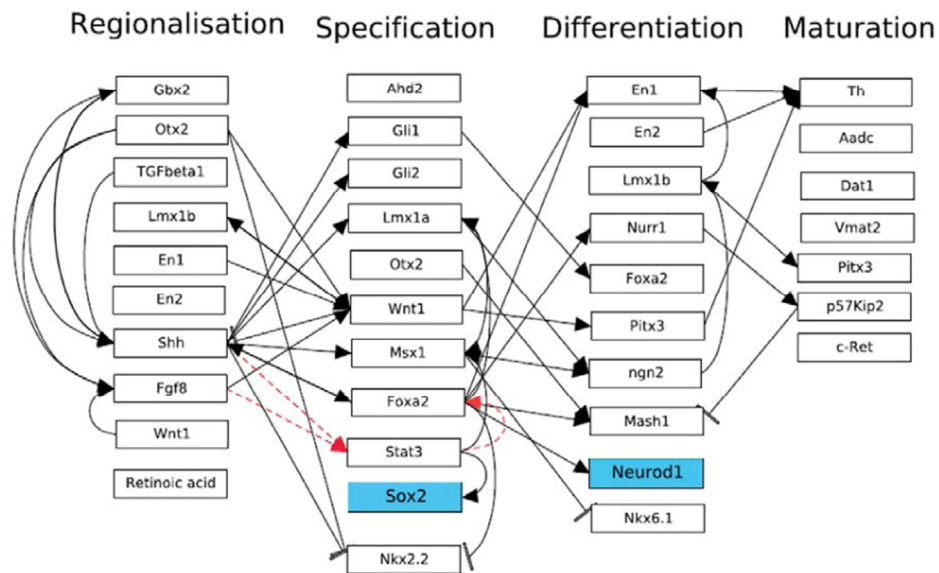
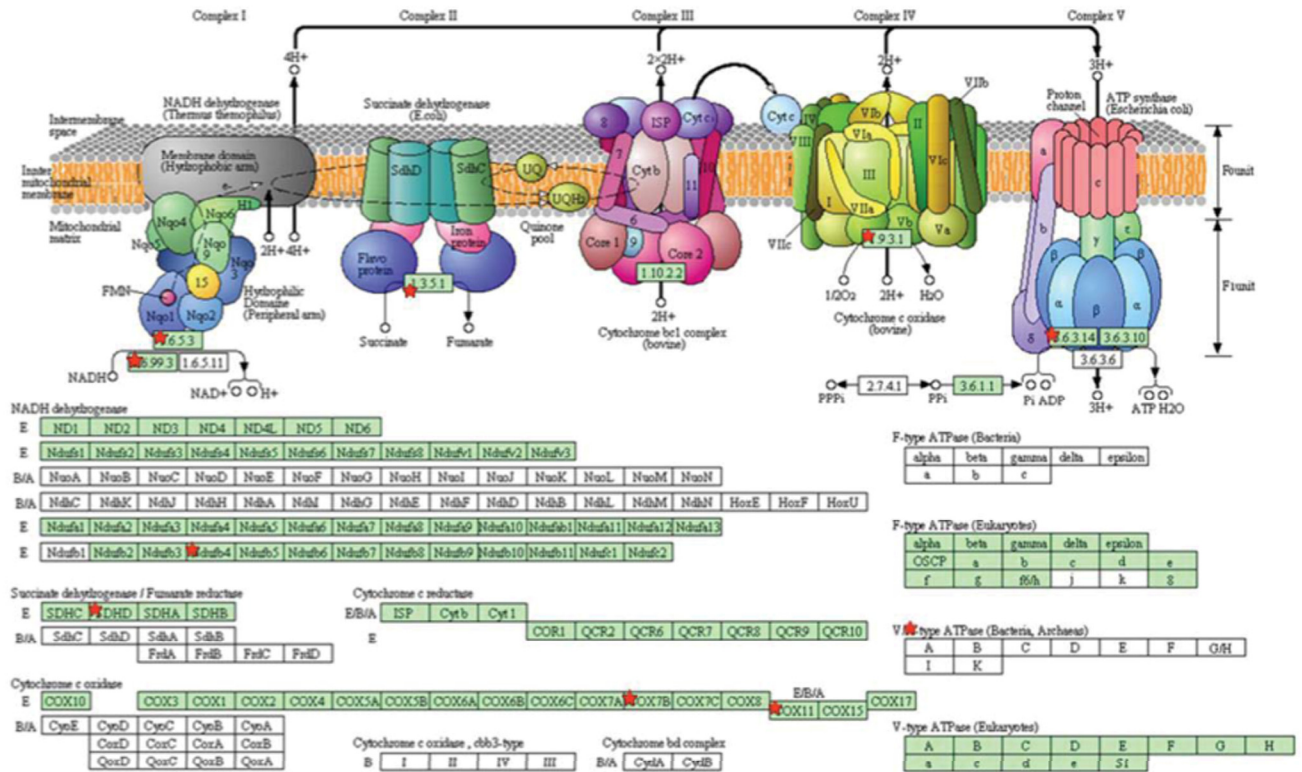


Figure S1. Visualization of genes downregulated in Dopaminergic Neurogenesis pathway in the PFC of females 3 weeks after MMC exposure (WikiPathways). Downregulated genes are shown in blue. MMC1-4 refers to individual animals subjected to MMC treatment.

OXIDATIVE PHOSPHORYLATION



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Figure S2. Visualization of genes downregulated in the KEGG oxidative phosphorylation pathway in the PFC of females 3 weeks after MMC exposure (DAVID Bioinformatics Resources 6.7)[19, 50]. Stars denote genes that were downregulated in the PFC tissues of MMC-exposed female animals.

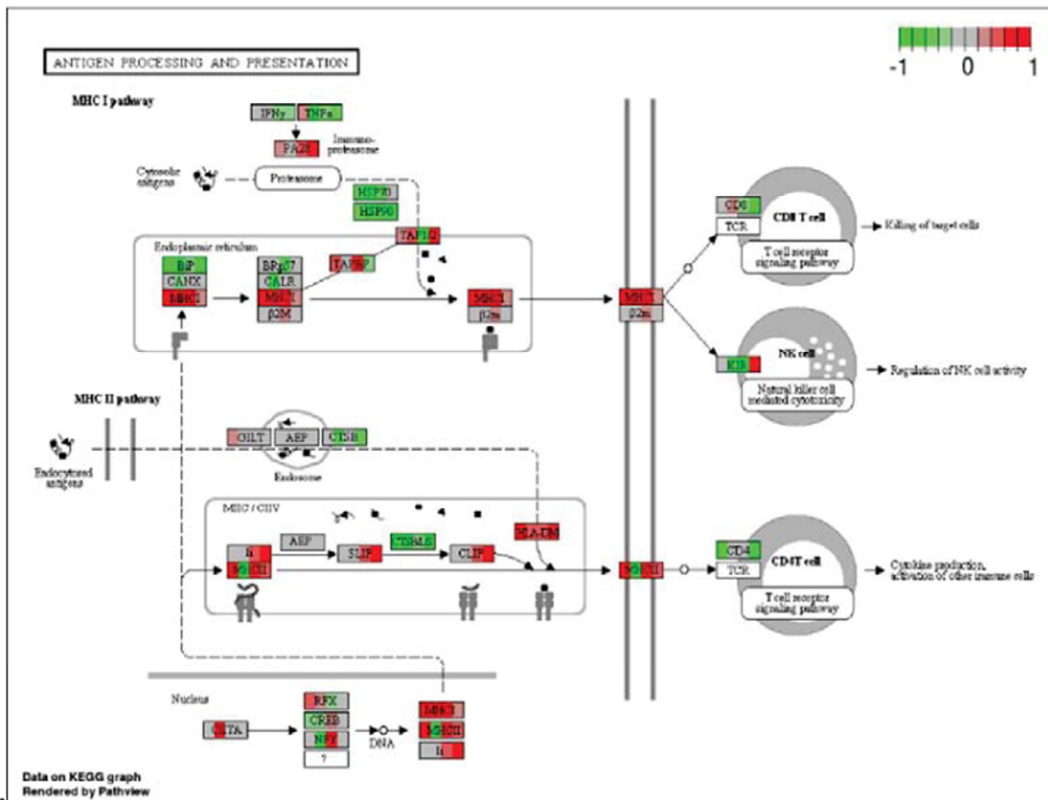
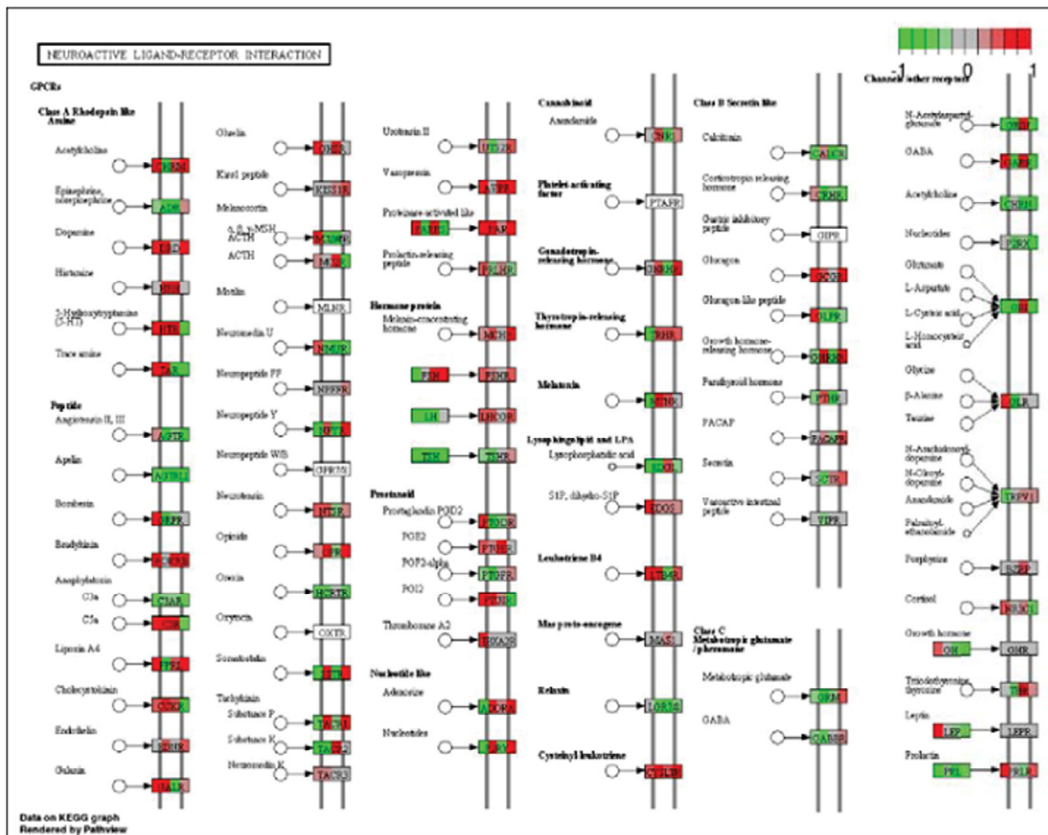


Figure S3. Bi-directionally perturbed pathways.