

Table S15. KEGG pathways involved in the reversal of key genes by **PNS** in the cortical region

Group ID	Description	$\log_{10} P$
1	Amyotrophic lateral sclerosis - Mus musculus (house mouse)	-11.551
2	Ribosome - Mus musculus (house mouse)	-5.9302
3	Synaptic vesicle cycle - Mus musculus (house mouse)	-4.8961
4	Protein processing in endoplasmic reticulum - Mus musculus (house mouse)	-4.7083
5	Protein export - Mus musculus (house mouse)	-3.7516
6	Proteasome - Mus musculus (house mouse)	-3.6519
7	Salmonella infection - Mus musculus (house mouse)	-3.0210
8	Long-term potentiation - Mus musculus (house mouse)	-2.8187
9	Mitophagy - animal - Mus musculus (house mouse)	-2.6040
10	Alanine, aspartate and glutamate metabolism - Mus musculus (house mouse)	-2.2388
11	Ferroptosis - Mus musculus (house mouse)	-2.1993