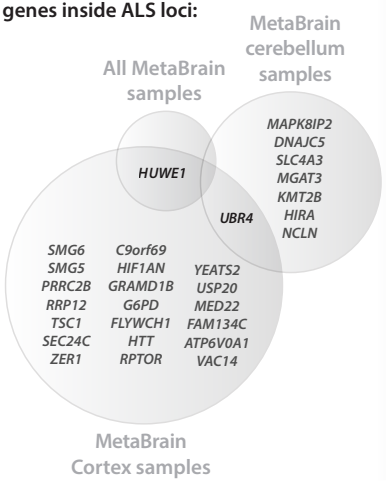
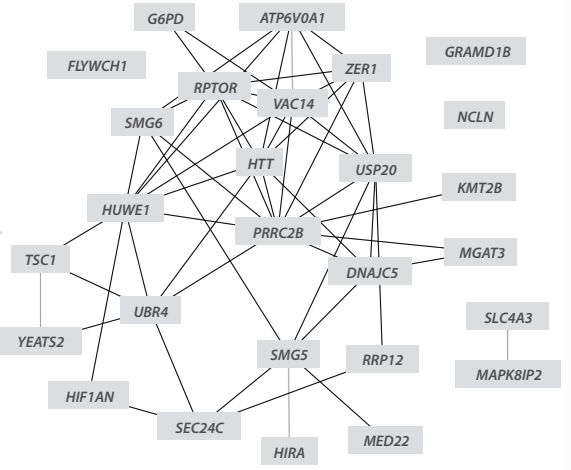
A

Genes, co-regulated with genes inside ALS loci:



B



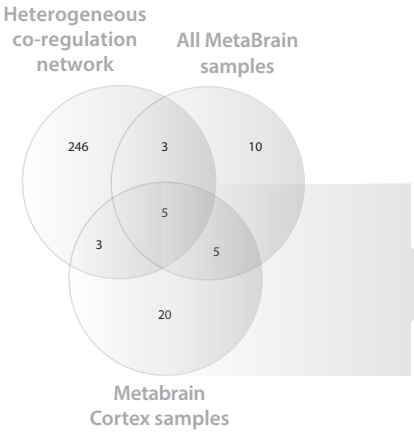
C

Associated phenotypes:

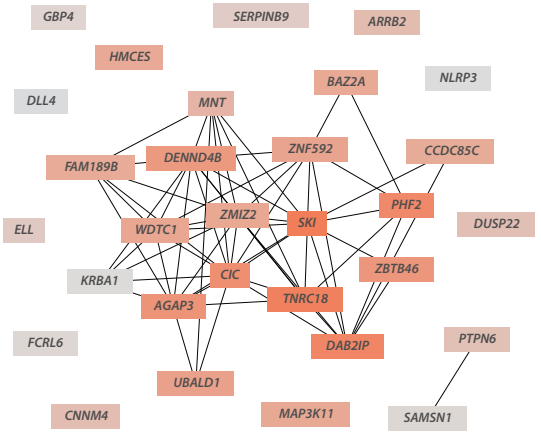
Human phenotype ontology enrichments	P Value
Cerebral visual impairment	6.69E-18
Gait disturbance	1.24E-17
Cerebral cortical atrophy	1.33E-17
Cerebellar atrophy	2.11E-17
Abnormality of the cerebral white matter	2.94E-17
Abnormal cerebellum morphology	2.96E-17
Abnormality of hindbrain morphology	3.34E-17

D

Genes, co-regulated with genes inside multiple sclerosis loci:



E



Neurotrophin signaling pathway Z-score:

< -10 -5 0 5 > 10

Associated KEGG pathways:

Enrichment	P Value
Acute myeloid leukemia	4.8 x 10-18
T cell receptor signaling pathway	8.3 x 10-17
Chemokine signaling pathway	1.6 x 10-15
Neurotrophin signaling pathway	1.4 x 10-14
Endocytosis	5.7 x 10-14