

Chapter 6

Appendix of Supplementary Material

Name of Process	Number of relevant gene ontology terms
Metabolic cell signalling pathways	49
Immunity	32
Cellular formation and structure	23
Embryogenesis	19
Synaptic function	18
Cellular transport	9
Kidney development	9
Post translational modification	8
Apoptosis	6
Plasma membrane transport	6
Endocytosis and exocytosis	6
Neuronal function	5
Transcription	5
Negative regulation of cell proliferation	4
Metabolic functions	4
Protein degradation	3
Positive regulation of cell proliferation	3
Wnt signalling	3
Cell division	3
Translational machinery	3
Nuclear replication	2
Cell replication	2
Plasma membrane function	2
Cellular enzyme function	1
Intestinal function	1
Membrane excitation	1
Mitochondrial translation	1

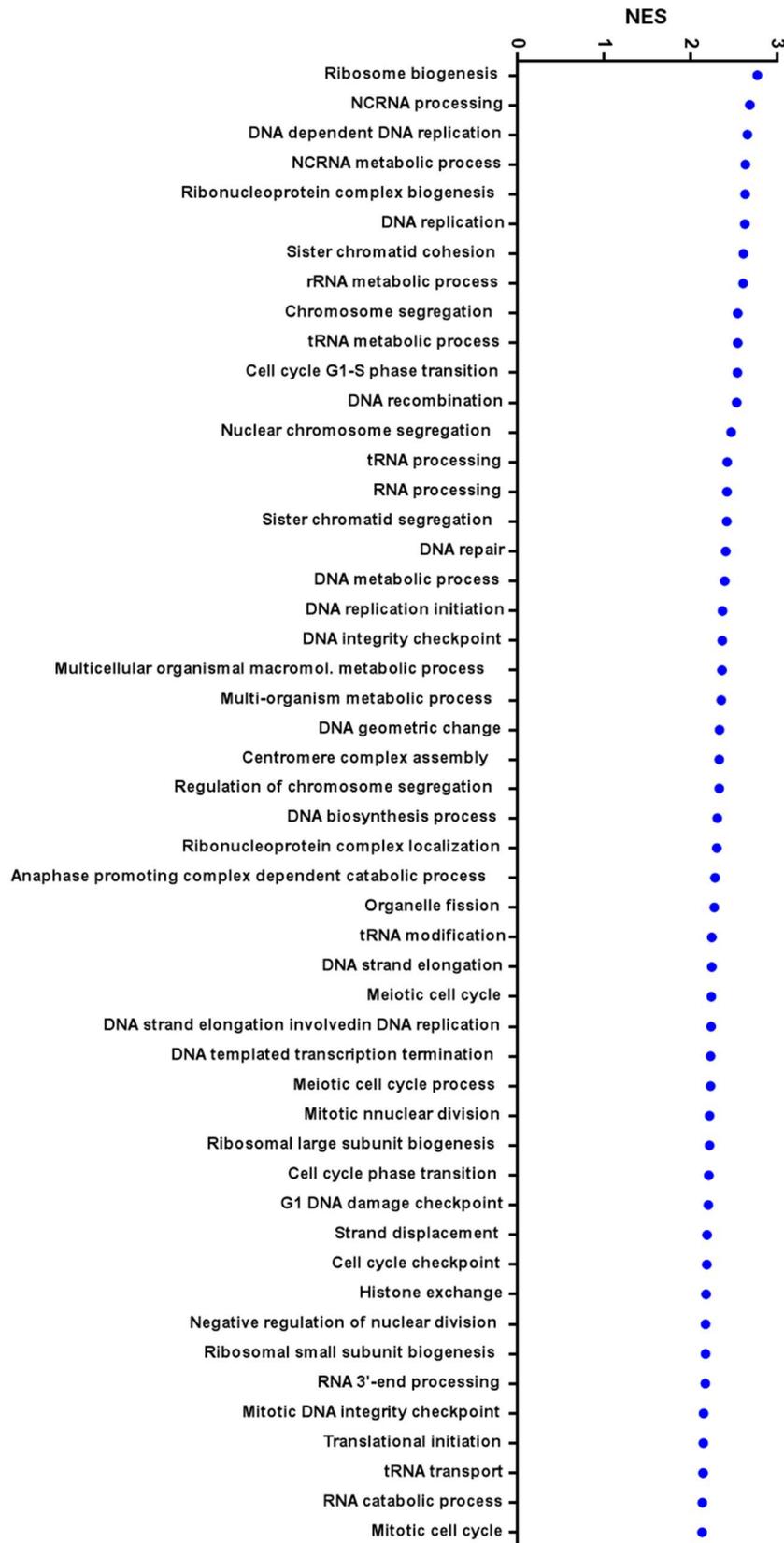
Miscellaneous	31
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Supplementary Table 6.1. Table summarising the gene ontology processes that are differentially positively enriched.

Name of Process	Number of relevant gene ontology terms
Metabolic processes	36
Nucleoside and nucleotide processing	25
Metabolic energy processes	17
Catabolic processes	15
Cellular response to external stimuli	14
Immunity	12
Cell signalling	11
Endocytosis/exocytosis	10
Cellular formation and structure	9
Ion and cation transport	8
Hormone production	8
Cardiac function	7
Embryogenetic processes	6
Calcium-dependent processes	5
Acidic pH response	4
Cellular secretion	4
Calcium transport	4
Urinary system	3
Fertilization	3
Cellular transport/trafficking	3
Plasma membrane transport	3
DNA repair	3
Post-translational modification	3
Calcium homeostasis	3
Synaptic processes	3
Interleukin 10	3
Cellular response to hypoxia	2
Phospholipid catabolism	2
Mitochondrial energy production	2
Enzyme function	2
Hormone transport	2
Kidney function	1

Neuronal function	1
Cellular processes	1
Apoptosis	1
Hormonal homeostasis	1
Miscellaneous	5

Supplementary Table 6.2. Table summarising the gene ontology processes that are differentially negatively enriched.



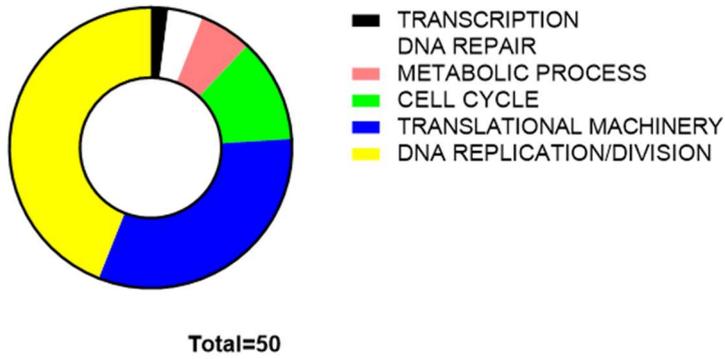
Supplementary Figure 6.1. Graphical representation of the top 50 positively enriched GO terms.



Supplementary Table 3. Graphical representation of the top 50 negatively enriched GO terms.

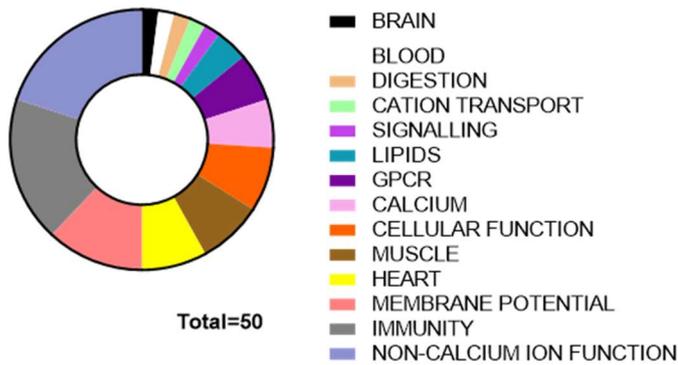
A

Top 50 Positively Enriched GO Terms

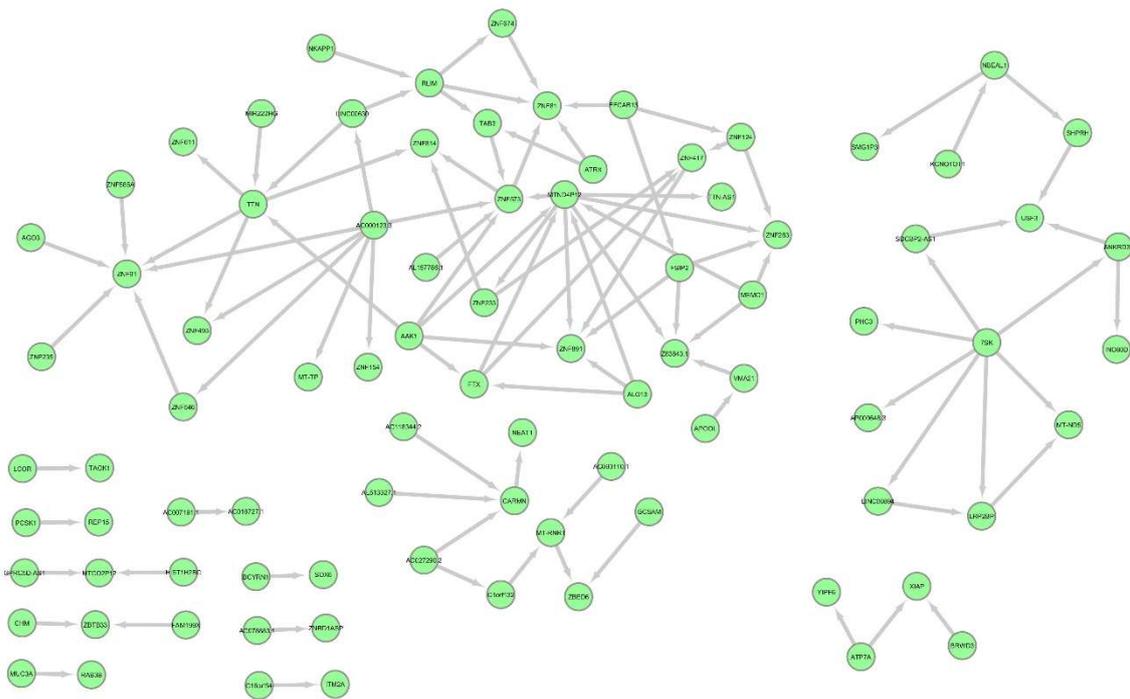


B

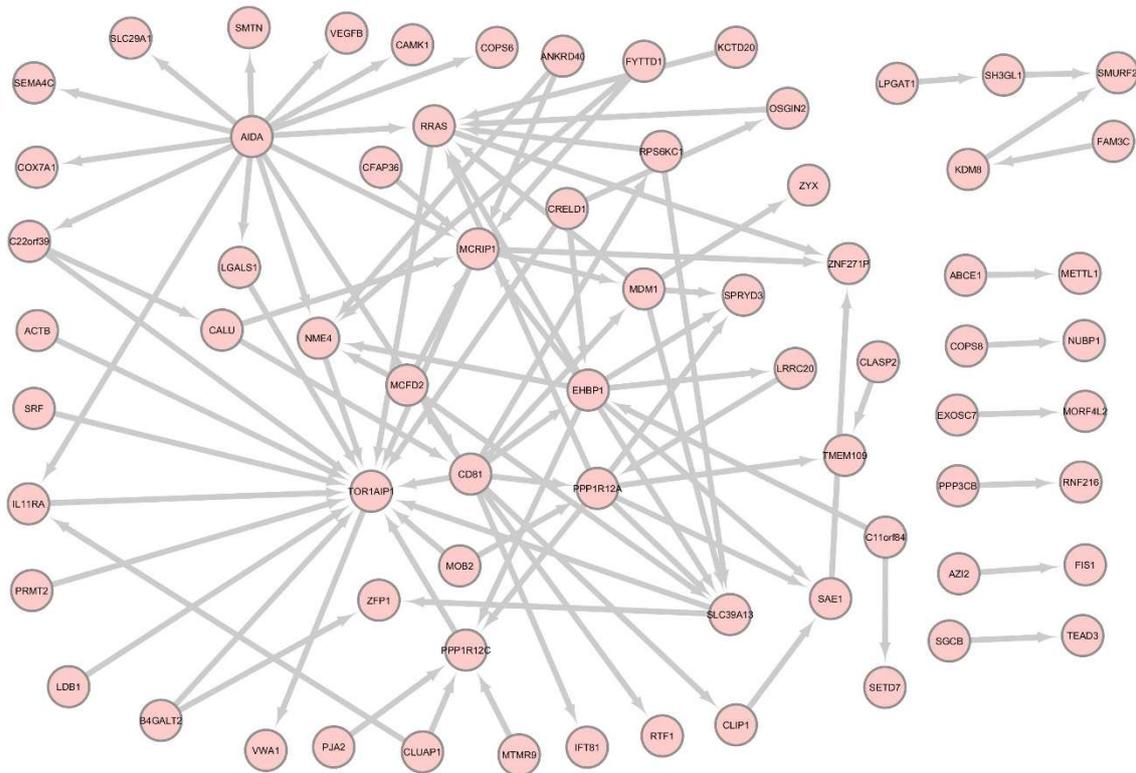
Top 50 Negatively Enriched GO Terms



Supplementary Figure 6.3. Pie charts summarising the top 50 enriched GO terms: A. Pos



Supplementary Figure 6.4. Network representation of the interaction between the 100 strongest correlated gene pairs.



Supplementary Figure 6.5. Network representation of the interaction between the 100 strongest correlated gene pairs.