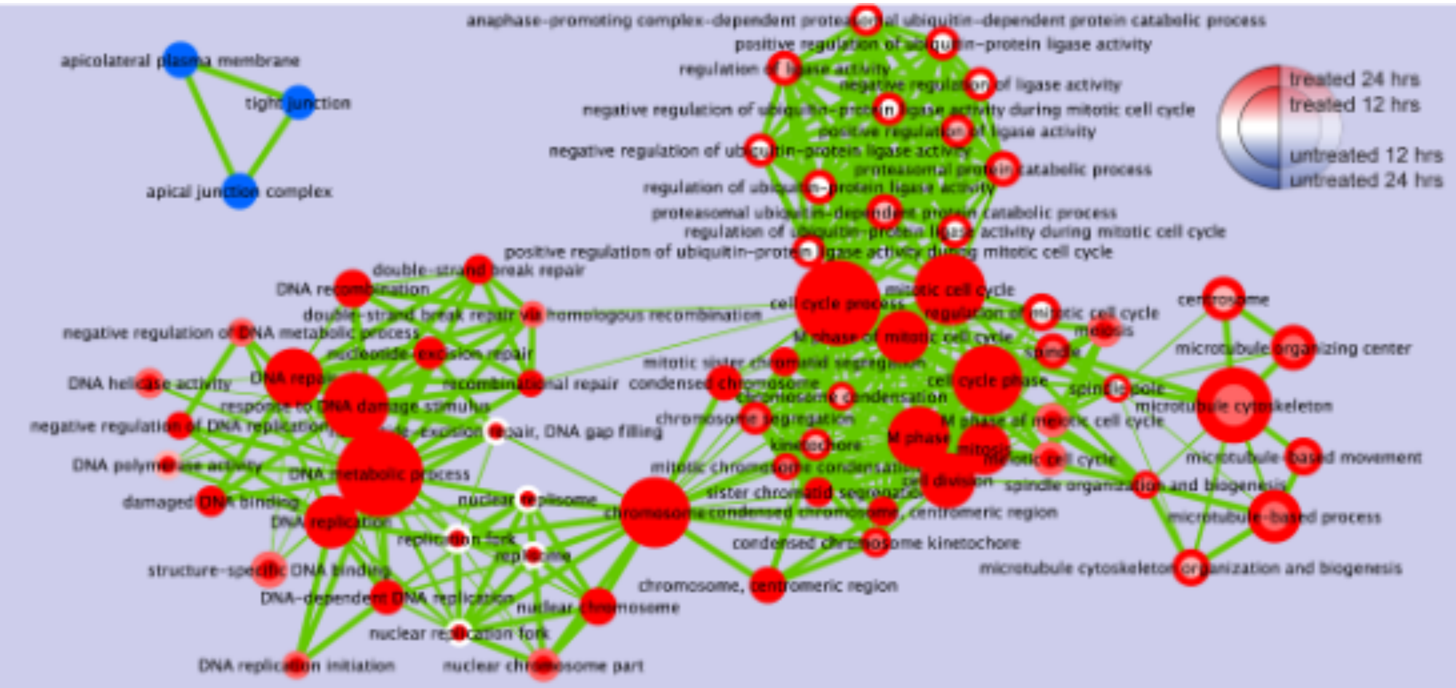
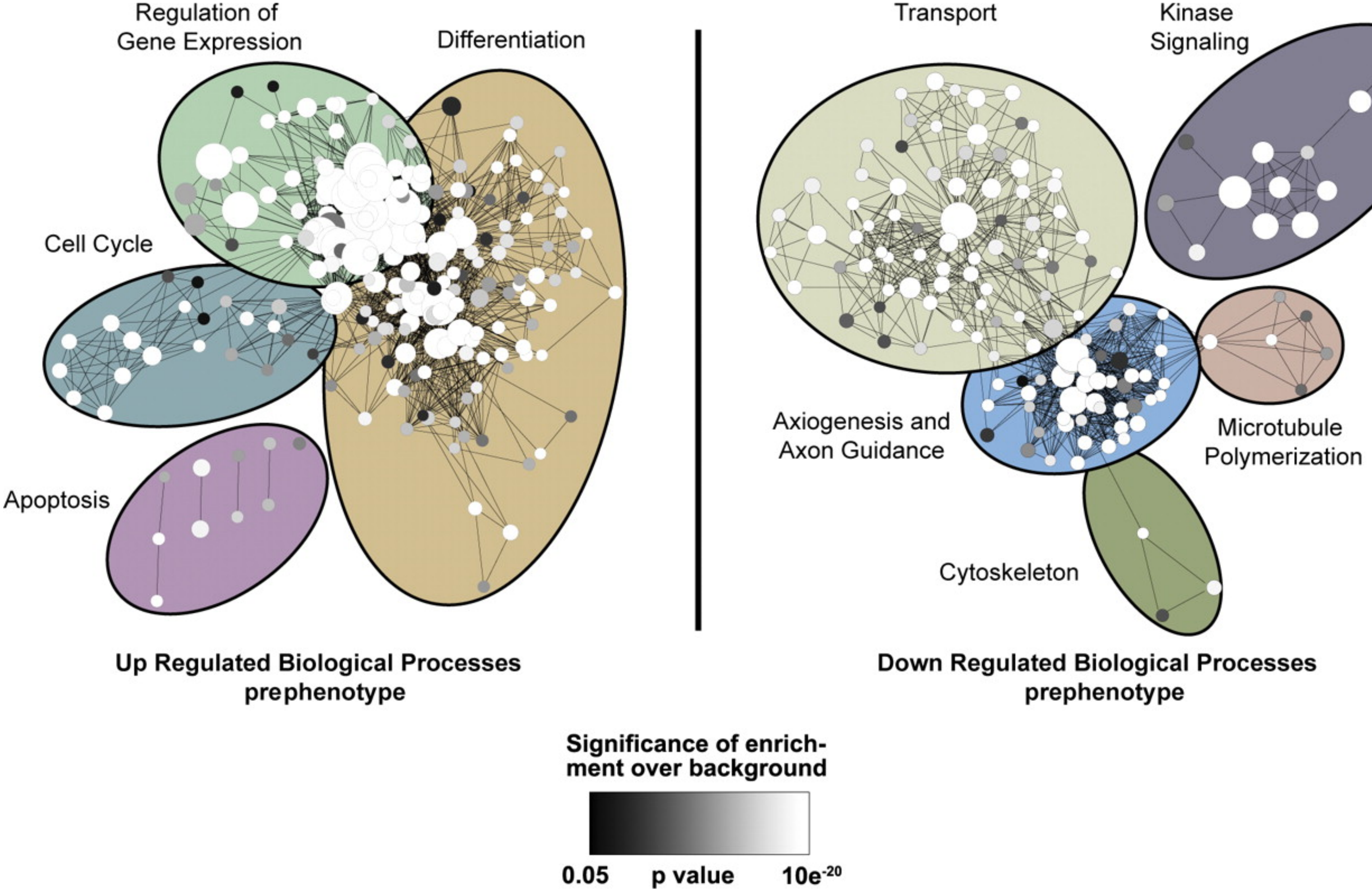

apicolateral plasma membrane
tight junction
apical junction complex
anaphase-promoting complex-dependent proteasomal ubiquitin-dependent protein catabolic process
positive regulation of ubiquitin-protein ligase activity
regulation of ligase activity
negative regulation of ligase activity
negative regulation of ubiquitin-protein ligase activity during mitotic cell cycle
positive regulation of ligase activity
negative regulation of ubiquitin-protein ligase activity
proteasomal protein catabolic process
regulation of ubiquitin-protein ligase activity
proteasomal ubiquitin-dependent protein catabolic process
regulation of ubiquitin-protein ligase activity during mitotic cell cycle
positive regulation of ubiquitin-protein ligase activity during mitotic cell cycle
treated 24 hrs
treated 12 hrs
untreated 12 hrs
untreated 24 hrs
double-strand break repair
DNA recombination
double-strand break repair via homologous recombination
negative regulation of DNA metabolic process
nucleotide-excision repair
DNA helicase activity
DNA repair
recombinational repair
response to DNA damage stimulus
negative regulation of DNA replication
nucleotide-excision repair, DNA gap filling
DNA polymerase activity
DNA metabolic process
damaged DNA binding
DNA replication
nuclear replisome
replication fork
replisome
structure-specific DNA binding
DNA-dependent DNA replication
nuclear chromosome
nuclear replication fork
DNA replication initiation
nuclear chromosome part
cell cycle process
mitotic cell cycle
regulation of mitotic cell cycle
meiosis
M phase of mitotic cell cycle
spindle
mitotic sister chromatid segregation
condensed chromosome
chromosome condensation
cell cycle phase
spindle pole
chromosome segregation
M phase of meiotic cell cycle
kinetochore
M phase
mitosis
meiotic cell cycle
mitotic chromosome condensation
cell division
sister chromatid segregation
spindle organization and biogenesis
chromosome
condensed chromosome, centromeric region
condensed chromosome kinetochore
chromosome, centromeric region
centrosome
microtubule organizing center
microtubule cytoskeleton
microtubule-based movement
microtubule-based process
microtubule cytoskeleton organization and biogenesis

GO enrichment map of biological processes altered in prephenotype dt27J mice. mRNA expression profiling of P4 WT (n = 3) and dt27J (n = 3) DRGs. Genes were clustered based on GO term, and an enrichment map of those biological processes up-regulated (left) or down-regulated



Ryan S D et al. J Cell Biol doi:10.1083/jcb.201107096

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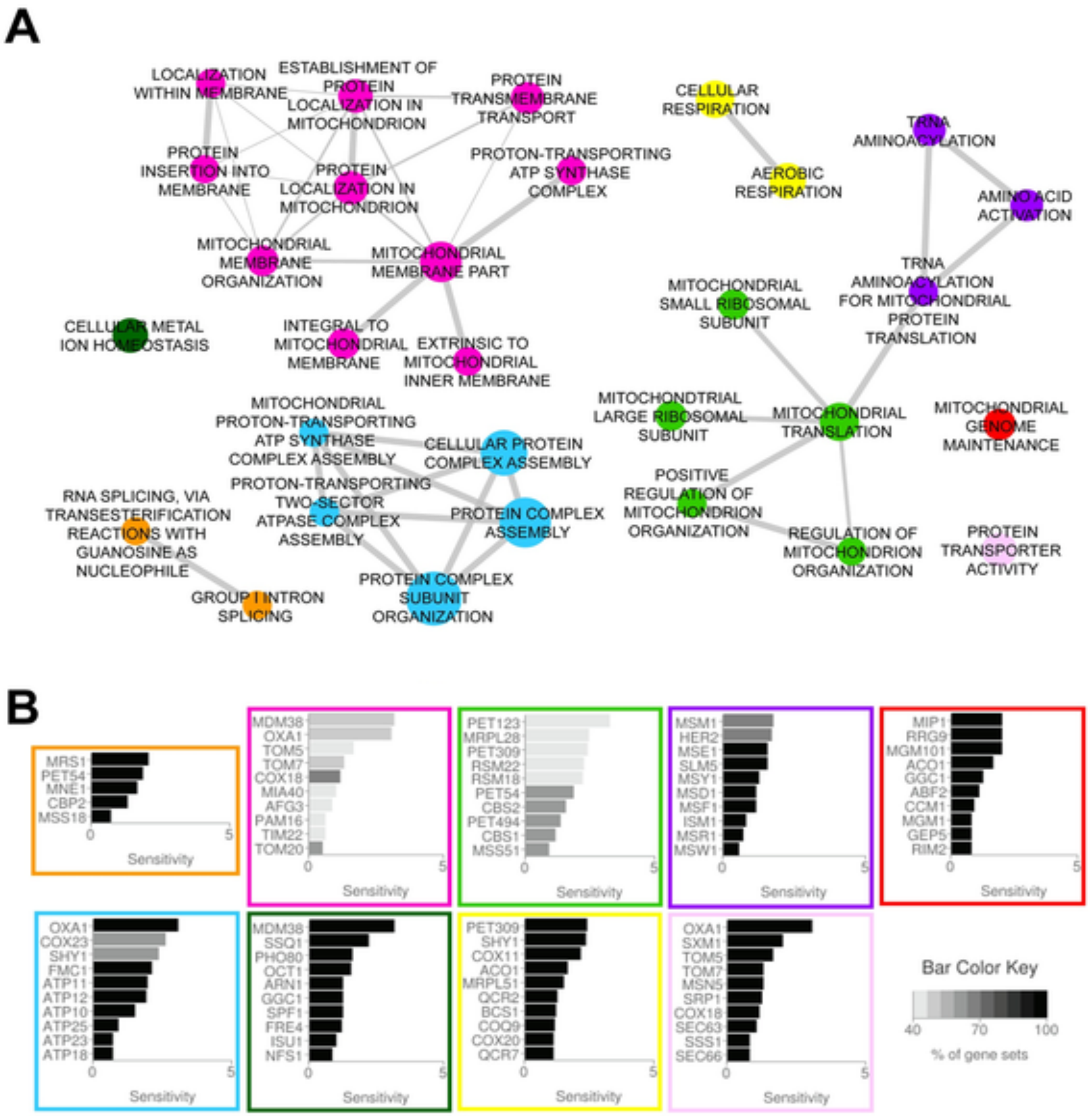
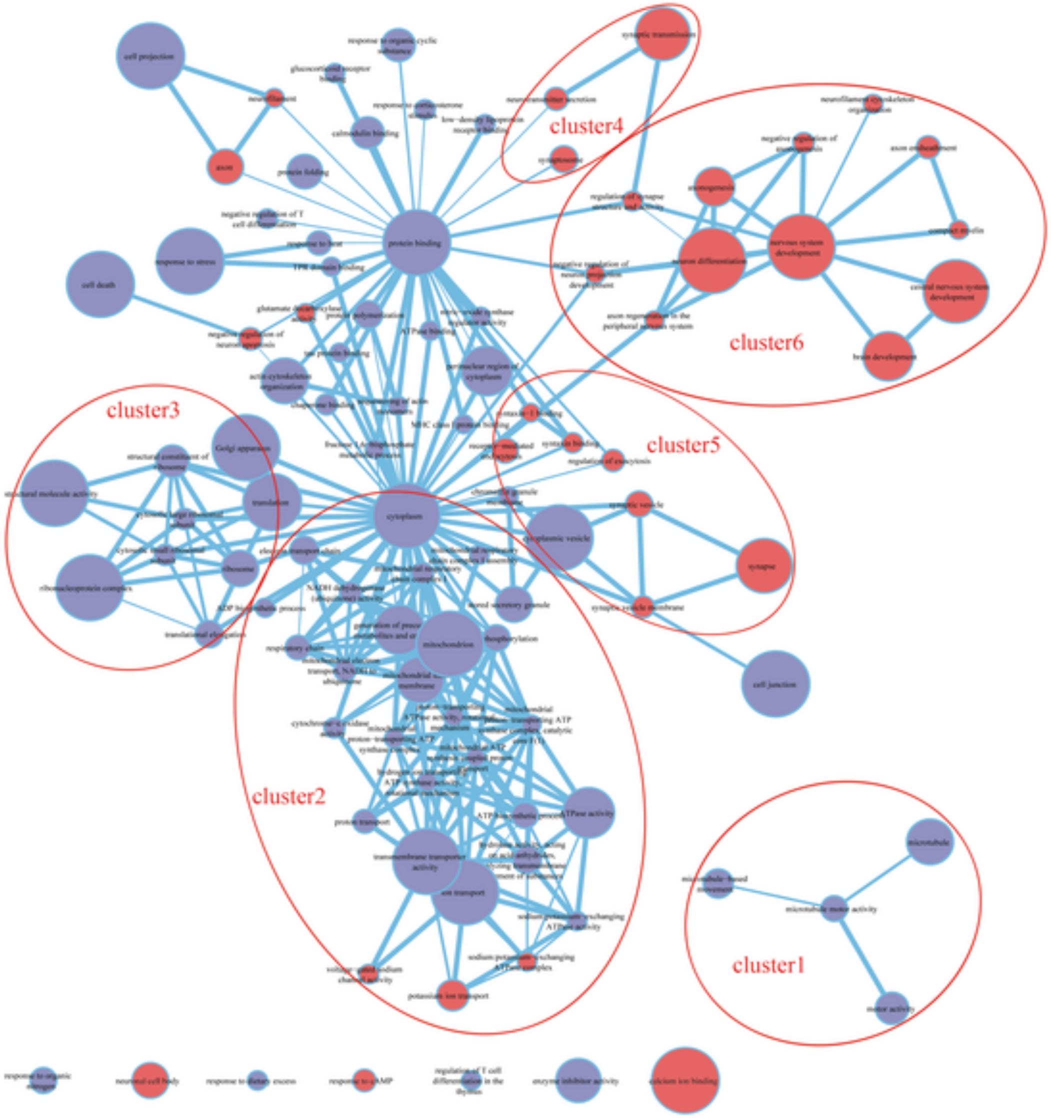
Figure 3. Biological processes and protein complexes associated with sensitivity to elesclomol.



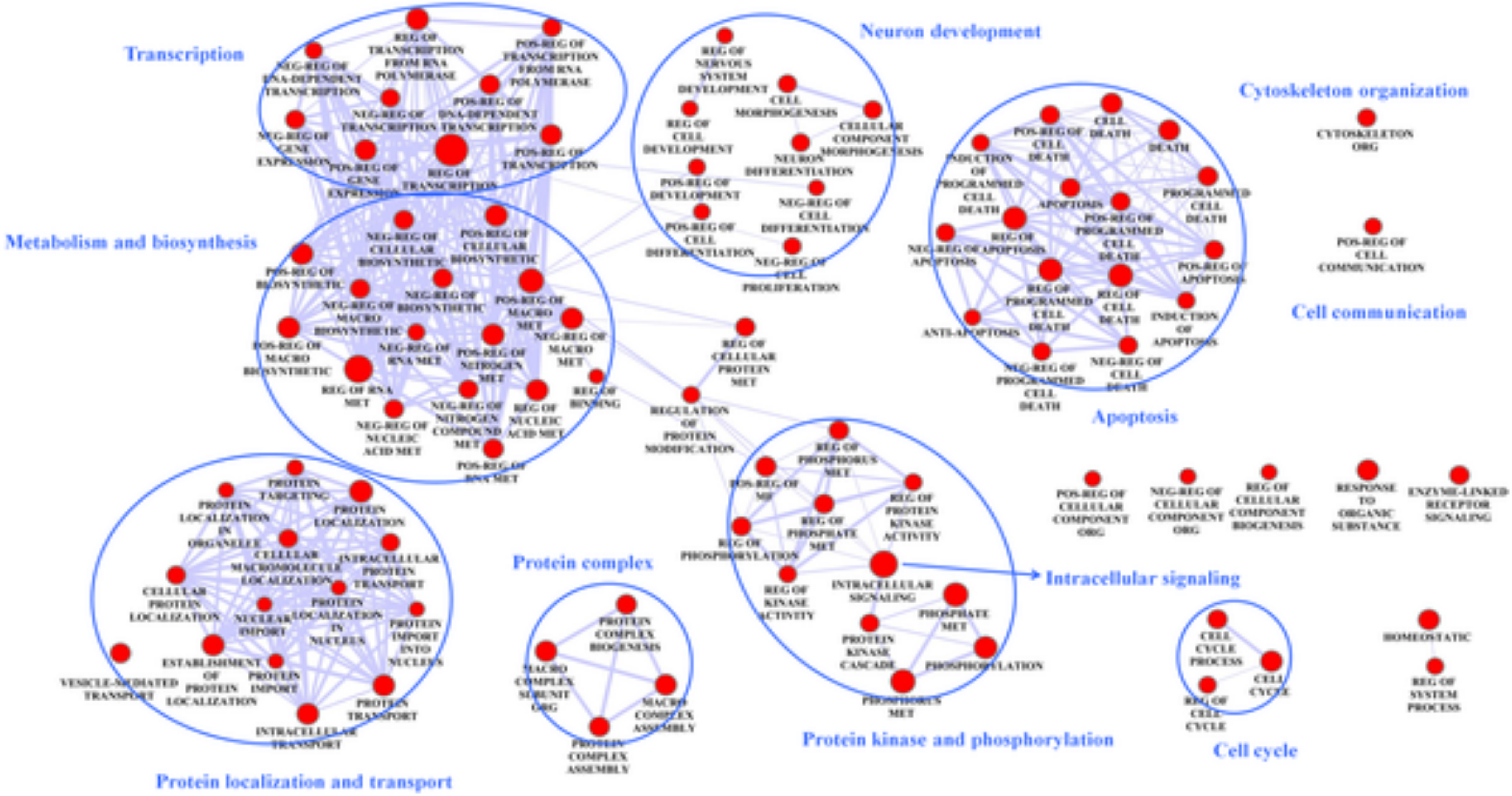
Blackman RK, Cheung-Ong K, Gebbia M, Proia DA, et al. (2012) Mitochondrial Electron Transport Is the Cellular Target of the Oncology Drug Elesclomol. PLoS ONE 7(1): e29798. doi:10.1371/journal.pone.0029798
http://www.plosone.org/article/info:doi/10.1371/journal.pone.0029798

Figure 4. Network of enriched GO terms derived from differentially expressed genes between schizophrenia and control using GOseq software.



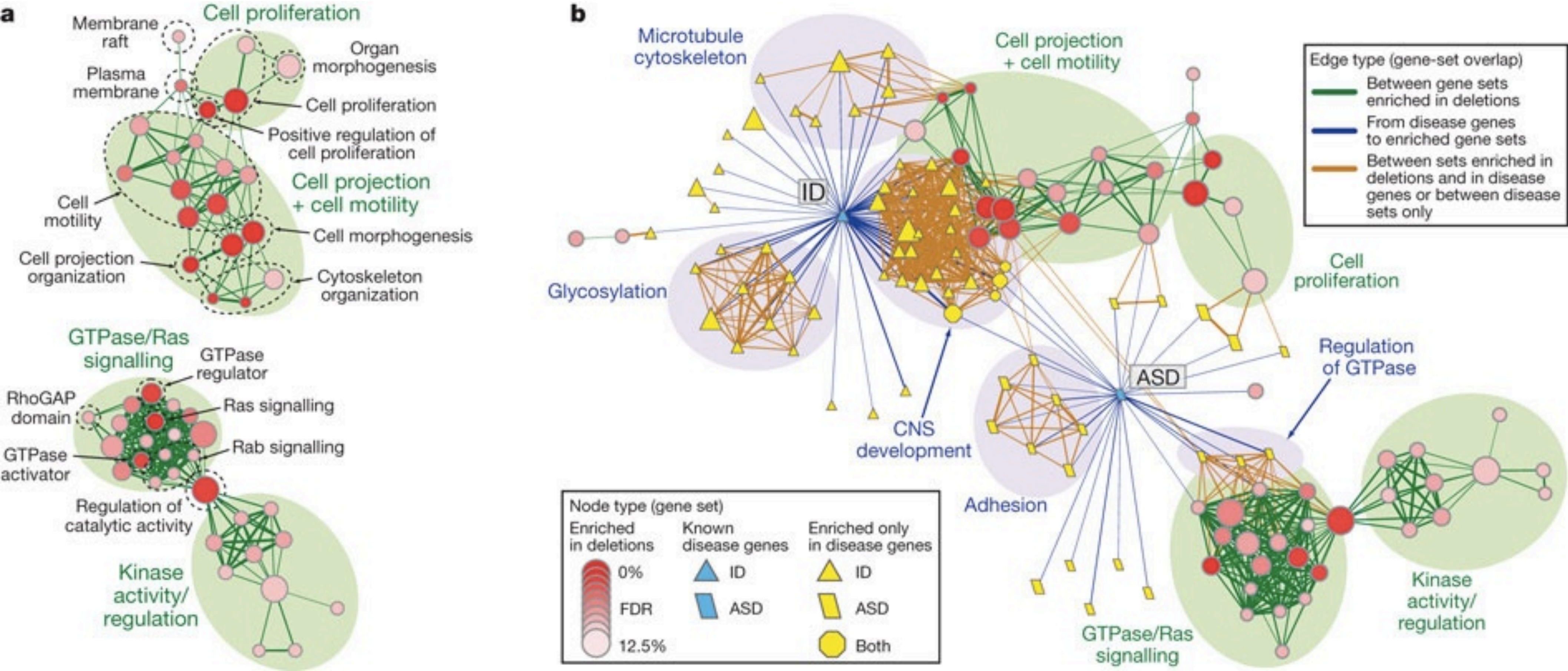
Wu JQ, Wang X, Beveridge NJ, Tooney PA, et al. (2012) Transcriptome Sequencing Revealed Significant Alteration of Cortical Promoter Usage and Splicing in Schizophrenia. PLoS ONE 7(4): e36351. doi:10.1371/journal.pone.0036351
http://www.plosone.org/article/info:doi/10.1371/journal.pone.0036351

Figure 2. A network map of the enriched GO terms in the perturbed subnetworks.



Liang D, Han G, Feng X, Sun J, et al. (2012) Concerted Perturbation Observed in a Hub Network in Alzheimer's Disease. PLoS ONE 7(7): e40498. doi:10.1371/journal.pone.0040498
http://www.plosone.org/article/info:doi/10.1371/journal.pone.0040498

Autism paper, Merico et al.



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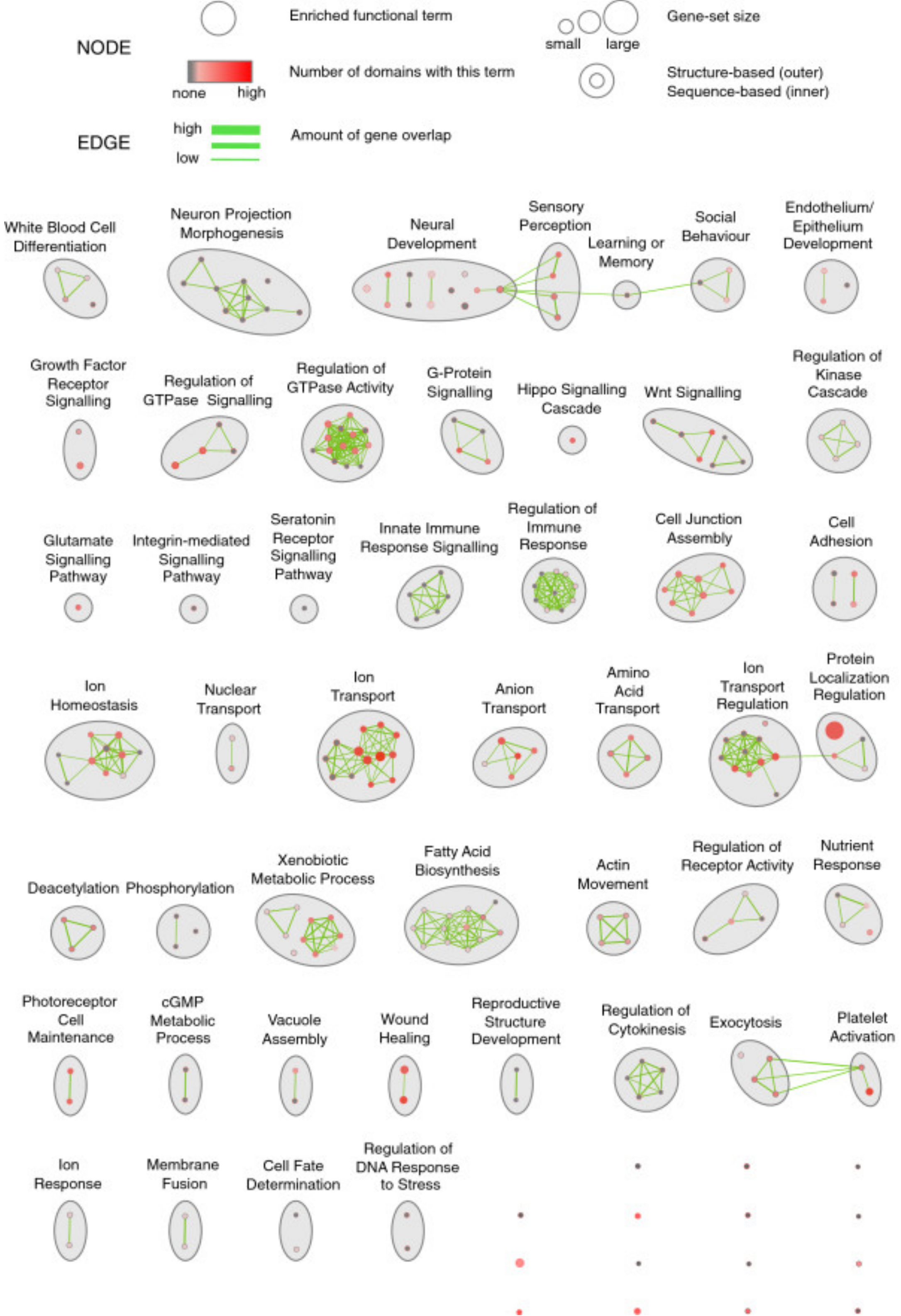

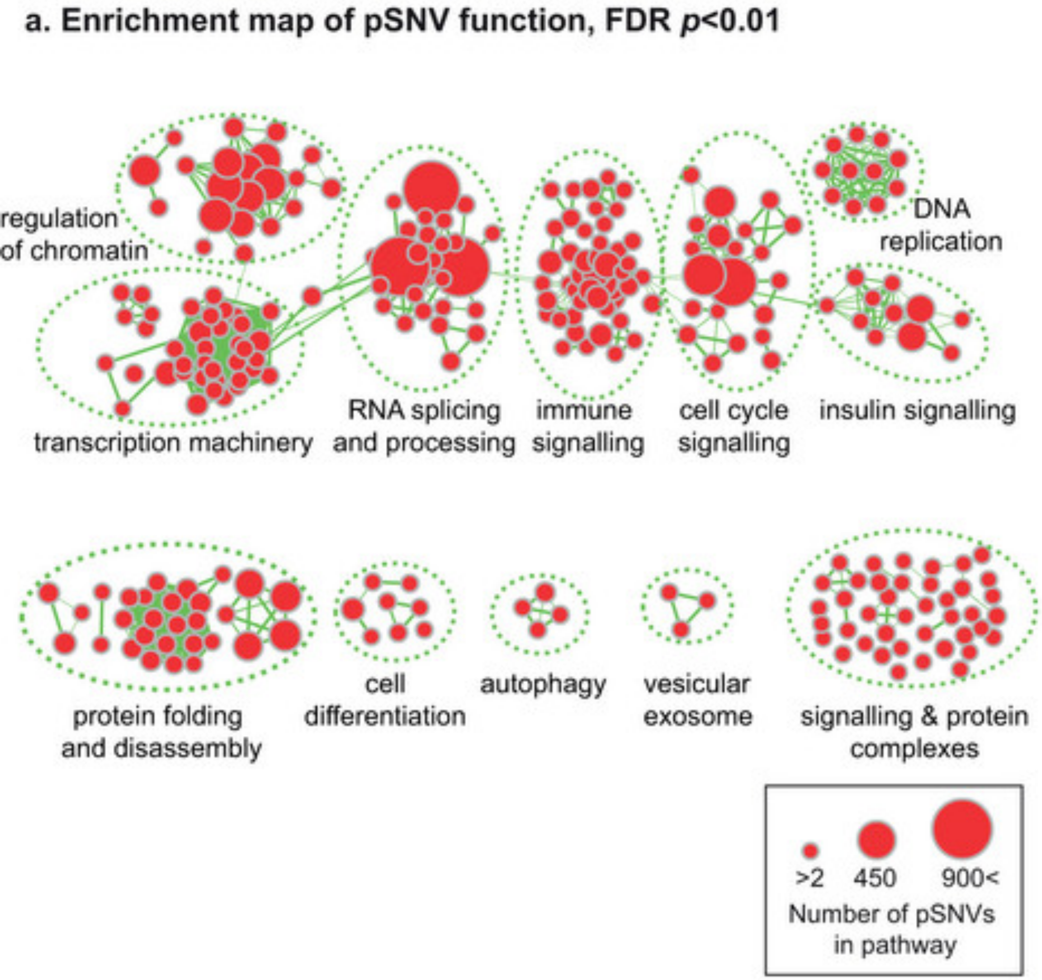

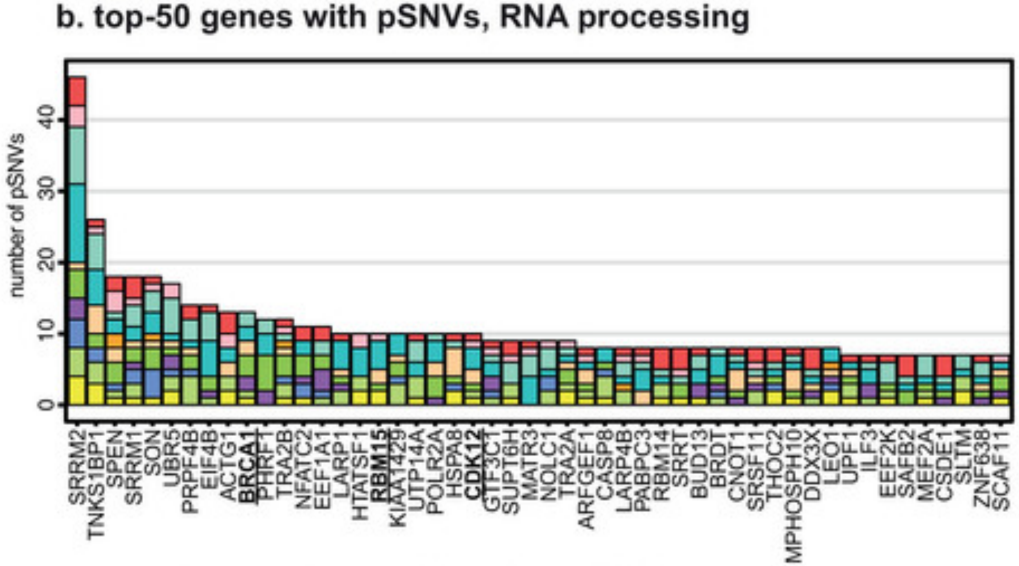

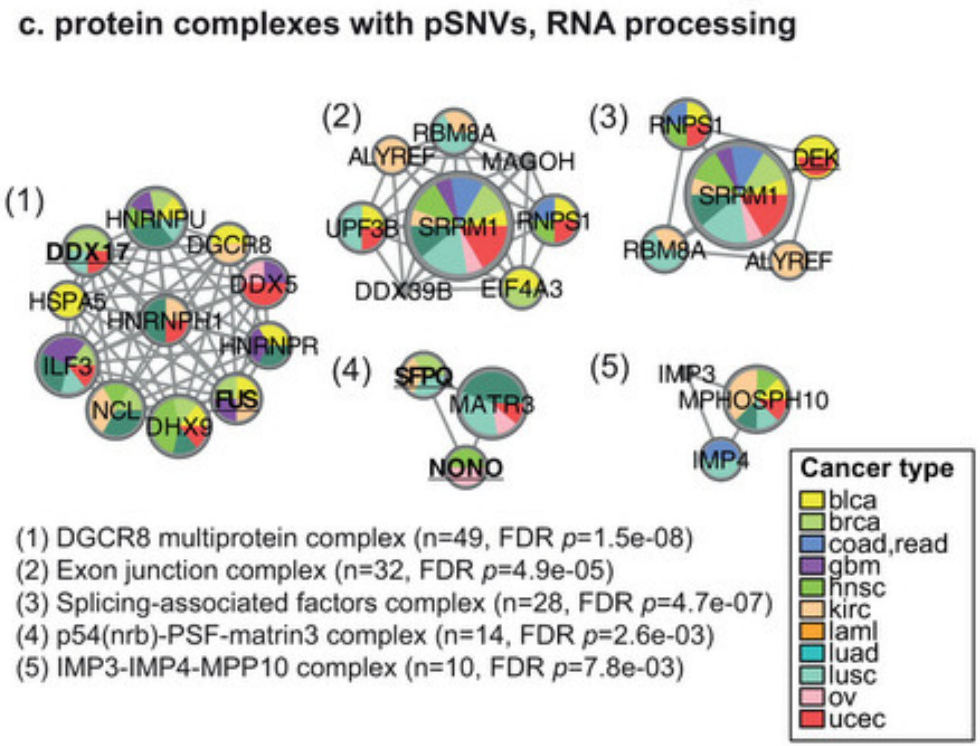

(1) DGCR8 multiprotein complex (n=49, FDR p=1.5e-08)
(2) Exon junction complex (n=32, FDR p=4.9e-05)
(3) Splicing-associated factors complex (n=28, FDR p=4.7e-07)
(4) p54(nrb)-PSF-matrin3 complex (n=14, FDR p=2.6e-03)
(5) IMP3-IMP4-MPP10 complex (n=10, FDR p=7.8e-03)

Reimand j et al, 2013