

Supplementary Material

Cordeiro et al., *Insights on cryoprotectant toxicity from gene expression profiling of endothelial cells exposed to ethylene glycol*

SM Table 1 – Three of the Annotation Clusters with the highest enrichment score, for the up-regulated genes at 24h from the comparison Cold/Negative Controls

Up 24h Cold/Negative		
Cluster	Enrichment Score	Number of genes
Response to wounding	8.34	60
Inflammatory response		37
Glycoprotein	6.49	258
Disulphide bond		177
Signal peptide		191
Regulation of cell migration	6.15	27

SM Table 2 - Three of the Annotation Clusters with the highest enrichment score, for the down-regulated genes at 24h from the comparison Cold/Negative Controls

Down 24h Cold/Negative		
Cluster	Enrichment Score	Number of genes
Cell cycle	23.23	103
Chromosomal part	20.1	75
Kinetochores		29
Cytoskeleton	9.46	104
Non-membrane bounded organelle		225

SM Table 3 - Three of the Annotation Clusters with the highest enrichment score, for the up-regulated genes at 72h from the comparison Cold/Negative Controls

Up 72h Cold/Negative		
Cluster	Enrichment Score	Number of genes
Cytokine	10.68	17
Immune response		26
Inflammation	3.84	3
Immunosurveillance		5
Cell adhesion	3.38	6
Homeostatic process		6

SM Table 4 - Annotation Cluster with the highest enrichment score, for the down-regulated genes at 72h from the comparison Cold/Negative Controls

Down 72h Cold/Negative		
Cluster	Enrichment Score	Number of genes
Nucleotide Binding	1.14	3

SM Table 5 - Top 3 annotation clusters with the highest enrichment score of the 24h up-regulated EG vs Normal comparison

Up 24h EG/Normal		
Cluster	Enrichment Score	Number of genes
Angiogenesis	9.88	28
Response to wounding	8.54	63
Inflammatory response		34
glycoprotein	8.31	242

SM Table 6 - Top annotation clusters with the highest enrichment score of the 24h down-regulated EG vs Normal comparison

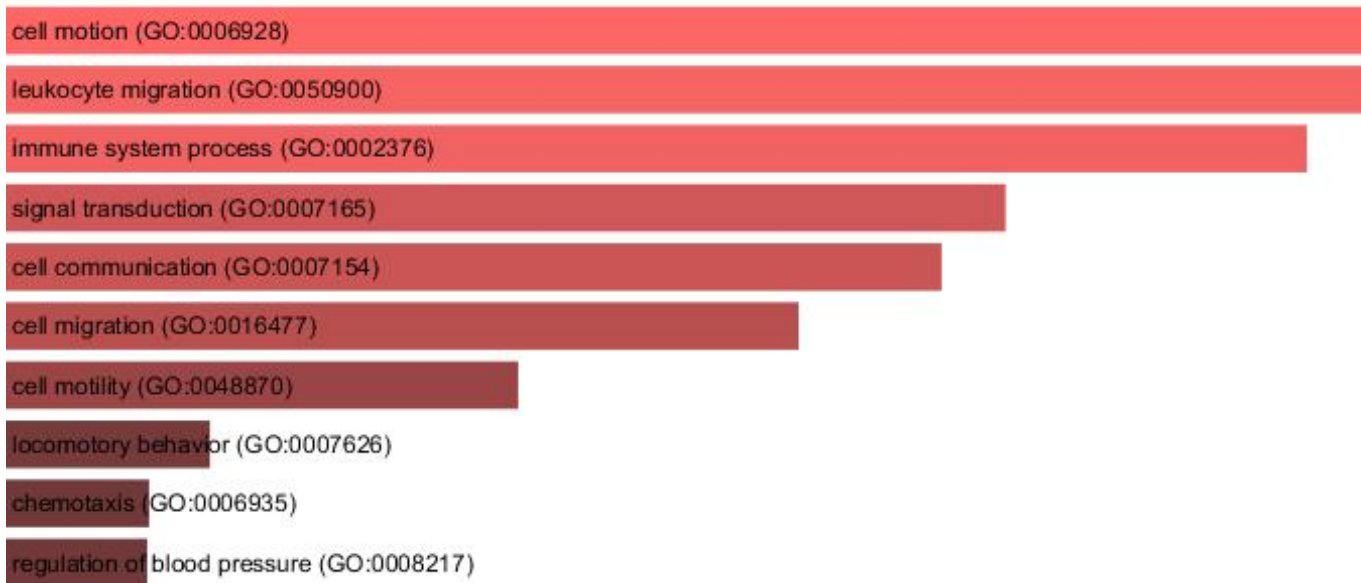
Down 24h EG/Normal		
Cluster	Enrichment Score	Number of genes
Nuclear division	10.37	39
mitosis		39
kinetochore	7.22	15

SM Table 7 - Top annotation clusters with the highest enrichment score of the 72h up-regulated EG vs Normal comparison

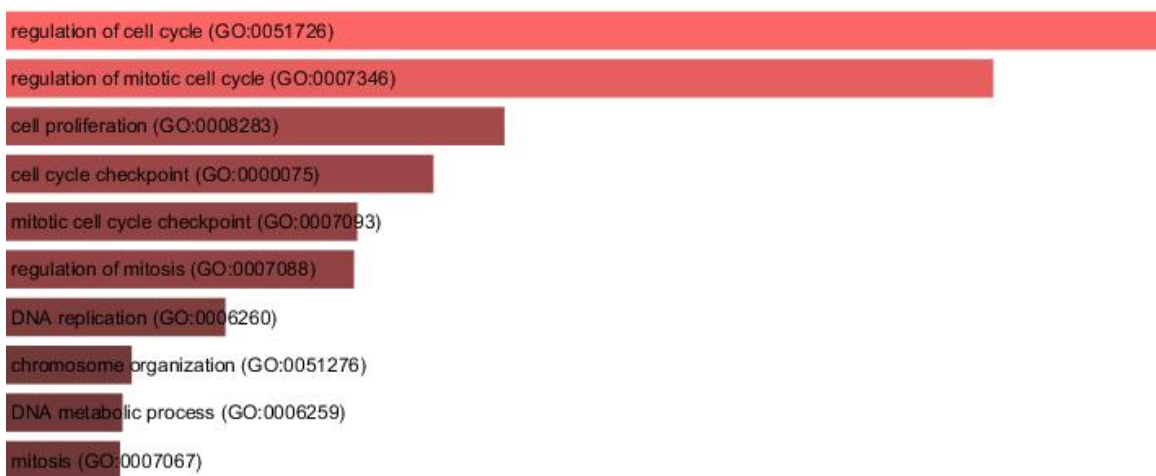
Up 72h EG/Normal		
Cluster	Enrichment Score	Number of genes
Inflammatory response	11.14	42
Response to wounding		66
Angiogenesis	9.62	30

SM Table 9 - Top annotation clusters with the highest enrichment score of the 72h down-regulated EG vs Normal comparison

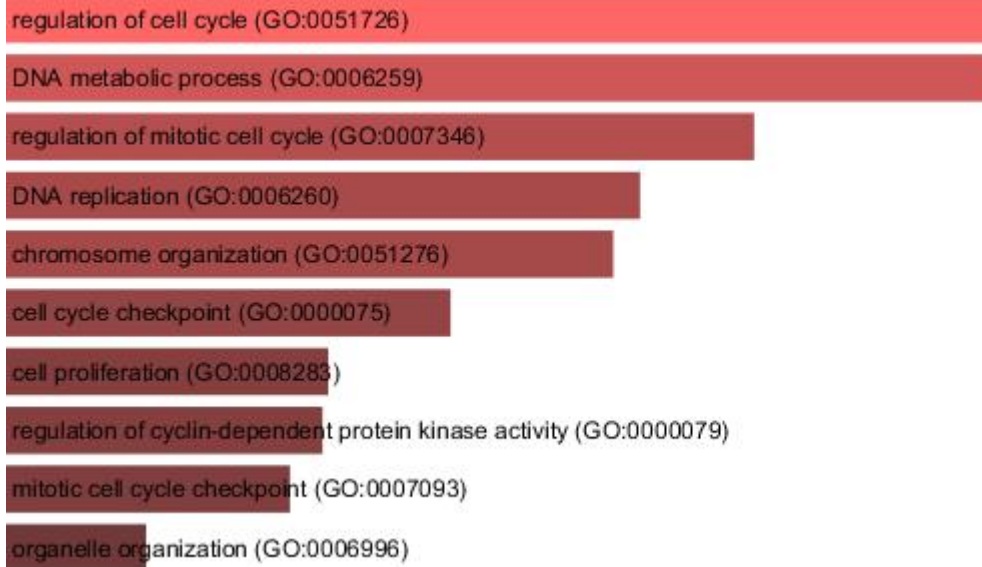
Down 72h EG/Normal		
Cluster	Enrichment Score	Number of genes
Mitosis	19.99	61
Kinetochores	15.37	27



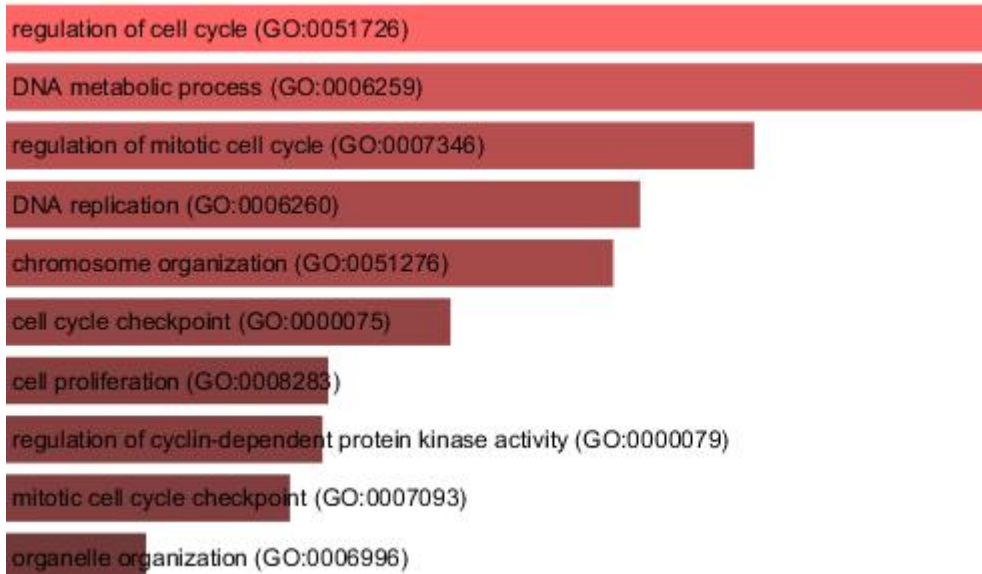
SM Figure 1 - Gene ontology of the 24h up-regulated Cold/Negative Controls comparison



SM Figure 2 - Gene ontology of the 24h down-regulated Cold/Negative Controls comparison



SM Figure 3 – Gene ontology of the 72h down-regulated Cold/Negative Controls comparison



SM Figure 4 - Gene ontology of the 72h up-regulated Cold/Negative Controls comparison