Table S1. List of the enriched processes for all contrasts. P-value e-10

GO:0000070	mitotic sister chromatid segregation
GO:0000075	cell cycle checkpoint signaling
GO:0000077	DNA damage checkpoint signaling
GO:0000079	regulation of cyclin-dependent protein serine/threonine kinase activity
GO:0000086	G2/M transition of mitotic cell cycle
GO:0000122	negative regulation of transcription by RNA polymerase II
GO:0000226	microtubule cytoskeleton organization
GO:0000278	mitotic cell cycle
GO:0000280	nuclear division
GO:0000470	maturation of LSU-rRNA
GO:0000819	sister chromatid segregation
GO:0001568	blood vessel development
GO:0001666	response to hypoxia
GO:0001890	placenta development
GO:0001892	embryonic placenta development
GO:0001933	negative regulation of protein phosphorylation
GO:0001944	vasculature development
GO:0002237	response to molecule of bacterial origin
GO:0006259	DNA metabolic process
GO:0006260	DNA replication
GO:0006261	DNA-templated DNA replication
GO:0006275	regulation of DNA replication
GO:0006281	DNA repair
GO:0006325	chromatin organization
GO:0006334	nucleosome assembly
GO:0006338	chromatin remodeling
GO:0006364	rRNA processing
GO:0006457	protein folding
GO:0006882	cellular zinc ion homeostasis
GO:0006915	apoptotic process
GO:0006974	cellular response to DNA damage stimulus
GO:0006986	response to unfolded protein
GO:0007017	microtubule-based process
GO:0007049	cell cycle
GO:0007051	spindle organization
GO:0007052	mitotic spindle organization
GO:0007059	chromosome segregation
GO:0007088	regulation of mitotic nuclear division
GO:0007093	mitotic cell cycle checkpoint signaling
GO:0007098	centrosome cycle
GO:0007346	regulation of mitotic cell cycle
GO:0008283	cell population proliferation
GO:0008284	positive regulation of cell population proliferation
GO:0008608	attachment of spindle microtubules to kinetochore
GO:0009266	response to temperature stimulus
GO:0009408	response to heat

GO:0009628	response to abiotic stimulus
GO:0009890	negative regulation of biosynthetic process
GO:0010273	detoxification of copper ion
GO:0010389	regulation of G2/M transition of mitotic cell cycle
GO:0010558	negative regulation of macromolecule biosynthetic process
GO:0010563	negative regulation of phosphorus metabolic process
GO:0010564	regulation of cell cycle process
GO:0010648	negative regulation of cell communication
GO:0010941	regulation of cell death
GO:0010942	positive regulation of cell death
GO:0010948	negative regulation of cell cycle process
GO:0012501	programmed cell death
GO:0016072	rRNA metabolic process
GO:0022402	cell cycle process
GO:0023057	negative regulation of signaling
GO:0030490	maturation of SSU-rRNA
GO:0031327	negative regulation of cellular biosynthetic process
GO:0031570	DNA integrity checkpoint signaling
GO:0032200	telomere organization
GO:0032496	response to lipopolysaccharide
GO:0033046	negative regulation of sister chromatid segregation
GO:0033048	negative regulation of mitotic sister chromatid segregation
GO:0033554	cellular response to stress
GO:0033673	negative regulation of kinase activity
GO:0033993	response to lipid
GO:0034470	ncRNA processing
GO:0034501	protein localization to kinetochore
GO:0034605	cellular response to heat
GO:0034660	ncRNA metabolic process
GO:0034728	nucleosome organization
GO:0035966	response to topologically incorrect protein
GO:0042026	protein refolding
GO:0042127	regulation of cell population proliferation
GO:0042254	ribosome biogenesis
GO:0042273	ribosomal large subunit biogenesis
GO:0042274	ribosomal small subunit biogenesis
GO:0042325	regulation of phosphorylation
GO:0042326	negative regulation of phosphorylation
GO:0042592	homeostatic process
GO:0042770	signal transduction in response to DNA damage
GO:0042981	regulation of apoptotic process
GO:0043065	positive regulation of apoptotic process
GO:0043067	regulation of programmed cell death
GO:0043068	positive regulation of programmed cell death
GO:0044770	cell cycle phase transition
GO:0044772	mitotic cell cycle phase transition
GO:0044786	cell cycle DNA replication

GO:0044839	cell cycle G2/M phase transition
GO:0045444	fat cell differentiation
GO:0045597	positive regulation of cell differentiation
GO:0045653	negative regulation of megakaryocyte differentiation
GO:0045786	negative regulation of cell cycle
GO:0045787	positive regulation of cell cycle
GO:0045892	negative regulation of DNA-templated transcription
GO:0045930	negative regulation of mitotic cell cycle
GO:0045934	negative regulation of nucleobase-containing compound metabolic process
GO:0045936	negative regulation of phosphate metabolic process
GO:0046686	response to cadmium ion
GO:0048285	organelle fission
GO:0048514	blood vessel morphogenesis
GO:0048646	anatomical structure formation involved in morphogenesis
GO:0051052	regulation of DNA metabolic process
GO:0051093	negative regulation of developmental process
GO:0051253	negative regulation of RNA metabolic process
GO:0051254	positive regulation of RNA metabolic process
GO:0051276	chromosome organization
GO:0051301	cell division
GO:0051348	negative regulation of transferase activity
GO:0051726	regulation of cell cycle
GO:0051783	regulation of nuclear division
GO:0051784	negative regulation of nuclear division
GO:0051985	negative regulation of chromosome segregation
GO:0061644	protein localization to CENP-A containing chromatin
GO:0061687	detoxification of inorganic compound
GO:0065004	protein-DNA complex assembly
GO:0070482	response to oxygen levels
GO:0071276	cellular response to cadmium ion
GO:0071280	cellular response to copper ion
GO:0071294	cellular response to zinc ion
GO:0071310	cellular response to organic substance
GO:0071396	cellular response to lipid
GO:0071459	protein localization to chromosome, centromeric region
GO:0071824	protein-DNA complex subunit organization
GO:0072331	signal transduction by p53 class mediator
GO:0072359	circulatory system development
GO:0090068	positive regulation of cell cycle process
GO:0090329	regulation of DNA-templated DNA replication
GO:0097501	stress response to metal ion
GO:0098813	nuclear chromosome segregation
GO:0140014	mitotic nuclear division
GO:1901700	response to oxygen-containing compound
GO:1901796	regulation of signal transduction by p53 class mediator
GO:1901987	regulation of cell cycle phase transition
GO:1901988	negative regulation of cell cycle phase transition

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GO:1901990	regulation of mitotic cell cycle phase transition
GO:1901991	negative regulation of mitotic cell cycle phase transition
GO:1902679	negative regulation of RNA biosynthetic process
GO:1902749	regulation of cell cycle G2/M phase transition
GO:1902850	microtubule cytoskeleton organization involved in mitosis
GO:1903047	mitotic cell cycle process
GO:1903083	protein localization to condensed chromosome
GO:1903507	negative regulation of nucleic acid-templated transcription
GO:1904029	regulation of cyclin-dependent protein kinase activity
GO:1905819	negative regulation of chromosome separation
GO:1990169	stress response to copper ion
GO:2000026	regulation of multicellular organismal development
GO:2000816	negative regulation of mitotic sister chromatid separation

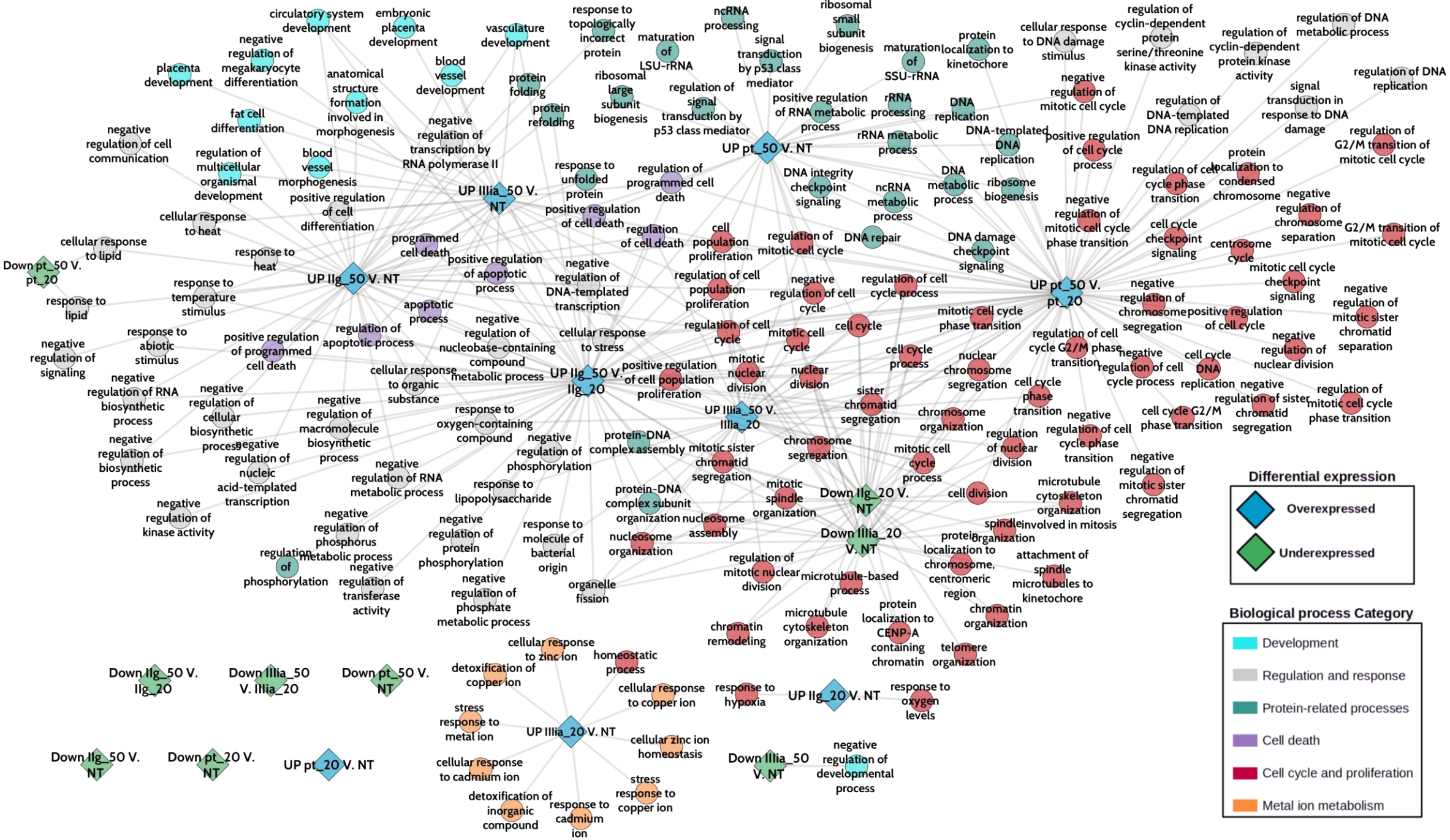


Figure S1. Network of enriched processes associated with the differential expression contrasts.