

Table S5. Biological processes enriched by the differential proteins identified jointly before and after comparison in five or more treated rats

Biological process	P-value			
	D3	D12	D15	D17
negative regulation of endopeptidase activity	7.00E-03	-	-	-
negative regulation of endothelial cell proliferation	3.10E-02	-	-	-
response to cadmium ion	3.70E-02	-	8.70E-02	-
antibacterial humoral response	4.80E-02	-	-	9.40E-02
antimicrobial humoral immune response mediated by antimicrobial peptide	7.40E-02	-	-	-
protein stabilization	-	2.90E-05	-	3.30E-02
lysosomal transport	-	1.50E-04	-	2.80E-02
protein refolding	-	2.20E-04	-	3.40E-02
positive regulation of endoribonuclease activity	-	1.90E-03	-	3.00E-03
cellular heat acclimation	-	4.80E-03	-	7.50E-03
positive regulation of nucleotide-binding oligomerization domain containing 2 signaling pathway	-	5.80E-03	-	9.00E-03
negative regulation of transcription from RNA polymerase II promoter in response to stress	-	5.80E-03	-	9.00E-03
positive regulation of microtubule nucleation	-	8.60E-03	-	1.30E-02
negative regulation of inclusion body assembly	-	9.60E-03	-	1.50E-02
positive regulation of tumor necrosis factor-mediated signaling pathway	-	1.20E-02	-	1.90E-02
amyloid fibril formation	-	1.30E-02	-	-
vesicle-mediated transport	-	1.40E-02	-	3.20E-02
negative regulation of mitochondrial outer membrane permeabilization involved in apoptotic signaling pathway	-	1.40E-02	-	2.20E-02
negative regulation of apoptotic process	-	1.80E-02	-	-
positive regulation of RNA splicing	-	1.80E-02	-	2.80E-02
chaperone-mediated protein complex assembly	-	2.00E-02	-	3.10E-02
negative regulation of endoplasmic reticulum stress-induced intrinsic apoptotic signaling pathway	-	2.00E-02	-	3.10E-02
response to ethanol	-	2.00E-02	-	4.60E-02
regulation of mitotic spindle assembly	-	2.10E-02	-	3.20E-02
regulation of protein ubiquitination	-	2.10E-02	-	3.20E-02
cellular response to unfolded protein	-	2.20E-02	-	5.40E-04
response to unfolded protein	-	3.20E-02	-	1.20E-03
chaperone mediated protein folding requiring cofactor	-	3.20E-02	-	5.00E-02
positive regulation of erythrocyte differentiation	-	3.30E-02	-	5.10E-02
negative regulation of extrinsic apoptotic signaling pathway in absence of ligand	-	3.50E-02	-	5.40E-02
mRNA catabolic process	-	3.60E-02	-	5.50E-02
positive regulation of T cell-mediated cytotoxicity	-	3.70E-02	-	-
binding of sperm to zona pellucida	-	4.60E-02	-	-

ATP metabolic process	-	4.70E-02	-	7.20E-02
negative regulation of protein ubiquitination	-	5.40E-02	-	8.30E-02
cellular response to heat	-	5.50E-02	-	8.50E-02
positive regulation of interleukin-8 production	-	6.20E-02	-	9.40E-02
phagocytosis, engulfment	-	6.60E-02	-	-
positive regulation of proteasomal ubiquitin-dependent protein catabolic process	-	7.20E-02	-	-
negative regulation of transforming growth factor beta receptor signaling pathway	-	7.40E-02	-	-
response to heat	-	8.30E-02	-	-
heterophilic cell–cell adhesion via plasma membrane cell adhesion molecules	-	-	2.90E-03	6.40E-02
innate immune response	-	-	5.60E-03	-
complement activation, classical pathway	-	-	6.40E-03	-
metanephric distal convoluted tubule development	-	-	7.30E-03	-
vitamin K metabolic process	-	-	9.10E-03	-
micturition	-	-	1.10E-02	-
defence response to gram-negative bacterium	-	-	1.30E-02	-
glucocorticoid metabolic process	-	-	1.60E-02	-
neutrophil migration	-	-	3.10E-02	-
retina layer formation	-	-	4.60E-02	-
positive regulation of MAPK cascade	-	-	5.10E-02	-
positive regulation of reactive oxygen species metabolic process	-	-	6.50E-02	-
iron ion transport	-	-	6.90E-02	5.70E-02
cochlea development	-	-	7.20E-02	-
positive regulation of B cell activation	-	-	8.40E-02	-
cellular response to organic substance	-	-	8.60E-02	-
phagocytosis, recognition	-	-	9.10E-02	-
response to lipopolysaccharide	-	-	9.10E-02	-
cellular aldehyde metabolic process	-	-	-	4.50E-05
aldehyde catabolic process	-	-	-	4.50E-03
lipid metabolic process	-	-	-	1.90E-02
homophilic cell adhesion via plasma membrane adhesion molecules	-	-	-	2.20E-02
positive regulation of NF-kappaB transcription factor activity	-	-	-	2.40E-02
response to thyroid hormone	-	-	-	2.80E-02
cell–cell adhesion	-	-	-	3.00E-02
negative regulation of cell proliferation	-	-	-	3.00E-02
glomerular filtration	-	-	-	3.10E-02
leukocyte cell–cell adhesion	-	-	-	4.50E-02
retina homeostasis	-	-	-	5.30E-02
positive regulation of gene expression	-	-	-	6.00E-02
calcium ion homeostasis	-	-	-	6.70E-02
response to hypoxia	-	-	-	6.80E-02

cellular iron ion homeostasis	-	-	-	7.50E-02
response to organic cyclic compound	-	-	-	8.40E-02
