

	day 3			day 6		
	genes	over/under	p-value	genes	over/under	p-value
<b>Biological Processes</b>						
Cell structure and motility	15	+	4.20E-010	35	+	1.02E-013
-Cell structure	12	+	1.33E-009	27	+	3.08E-013
-Cell motility	6	+	3.74E-005	17	+	9.07E-010
Developmental processes	11	+	1.46E-003	36	+	9.29E-007
-Mesoderm development	4	/	/	15	+	2.68E-005
Cell cycle	3	/	/	27	+	2.29E-010
-Mitosis	3	/	/	10	+	2.53E-004
-Cell cycle control	1	/	/	10	+	1.01E-003
Muscle contraction	4	+	4.29E-004	11	+	2.30E-007
Immunity and defense	2	/	/	21	+	4.34E-004
-Macrophage-mediated immunity	0	/	/	5	+	1.81E-003
-Stress response	0	/	/	8	+	1.86E-004
Tumor supressor	1	/	/	5	+	4.73E-004
Metabolism			/			
- sulfur redox	0	/	/	2	+	1.23E-002
- glycogen	2	+	3.84E-003	2	/	/
Cell adhesion	6	+	6.59E-004	9	/	/
G-protein mediated signaling	1	/	/	2	-	1.11E-002
Protein modification	2	/	/	16	+	1.14E-002
<b>Molecular Function</b>						
Cytoskeletal protein	15	+	4.58E-012	37	+	1.14E-019
-Actin binding cytoskeletal protein	12	+	2.10E-012	23	+	5.29E-015
-Microtubule family cytoskeletal protein	2	/	/	7	+	1.58E-003
-Intermediate filament	1	/	/	5	+	1.05E-003
Non-motor actin binding protein	4	+	2.35E-004	11	+	4.73E-008
Actin binding motor protein	1	/	/	3	+	7.30E-003
Tubulin	2	+	1.37E-003	4	+	7.37E-005
Select regulatory molecule	2	/	/	22	+	3.87E-005
-Kinase modulator	1	/	/	7	+	1.99E-004
Metalloprotease inhibitor	1	+	8.26E-003	2	+	5.35E-004

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## gene expression in PHN

Miscellaneous function	5	/	/	14	+	2.49E-003
-Structural protein	2	/	/	8	+	1.01E-004
Signaling molecule	4	/	/	16	+	2.29E-004
-Growth factor	1	/	/	4	+	1.30E-002
Defense/Immunity protein	2	/	/	8	+	6.04E-003
Non-receptor serine/threonine kinase	2	/	/	7	+	8.53E-003
Select calcium binding protein	1	/	/	8	+	1.15E-003
-Calmodulin related protein	1	/	/	6	+	1.01E-003
G-protein coupled receptor	1	/	/	0	-	2.09E-003
Nucleic acid binding	2	/	/	9	-	1.16E-002
<b>PANTHER pathways</b>						
Integrin signaling pathway	6	+	3.88E-006	10	+	8.61E-006
Cytoskeletal regulation by Rho GTPase	2	/	/	7	+	1.97E-005
Hedgehog signaling pathway	2	+	3.35E-003	4	+	4.14E-004
p53 pathway	0	/	/	5	+	2.31E-003
DNA replication	0	/	/	2	+	1.00E-002
<b>KEGG pathways</b>						
Focal adhesion	6			9		
Cell cycle	1			9		
Regulation of actin cytoskeleton	3			8		
MAPK signaling pathway	3			7		
Cell communication	2			7		
Leukocyte transendothelial migration	3			5		
Gap junction	2			5		
axon guidance	0			5		
Tight junction	3			4		
Adherens junction	2			4		
p53 signaling pathway	0			4		
Adipocytokine signaling pathway	2			3		
ECM-receptor interaction	1			3		
TGF-beta signaling pathway	1			3		
Cytokine-cytokine receptor interaction	1			2		

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gene expression in PHN

Cell adhesion molecules	0	2
Toll-like receptor signaling pathway	0	2