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New! Fisher's Exact with FDR multiple test correction now available for Gene List Analysis. <u>View release notes</u> here.

Analysis Summary: Please report in publication 3

Analysis Type: PANTHER Overrepresentation Test (Released 20171205)

Annotation Version and Release Date: PANTHER version 13.0 Released 2017-11-12

Analyzed List: Client Text Box Input (Homo sapiens)

Change

Reference List: Homo sapiens (all genes in database)

Change

Annotation Data Set: PANTHER GO-Slim Biological Process

Test Type: Fisher's Exact with FDR multiple test correction

Binomial

Results ③

Displaying all results; click here to display only results with False Discovery Rate < 0.05

	Homo sapiens (REF)	Client Text Box Input ( Hierarchy ) NEW! 3							
PANTHER GO-Slim Biological Process	<u> </u>	# expected Fold Enrichment +/- raw P value							
multi-multicellular organism process	<u>1</u>	<u>0</u>	.00	< 0.01	-	1.00E00	3		
→multicellular organismal process	<u>1479</u>	<u>0</u>	1.69	< 0.01	-	4.10E-01	3		
vitamin catabolic process	<u>1</u>	<u>0</u>	.00	< 0.01	-	1.00E00	3		
<u> </u>	<u>30</u>	<u>0</u>	.03	< 0.01	-	1.00E00	1		
<u>•metabolic process</u>	<u>5416</u>	<u>18</u>	6.18	2.91	+	6.33E-07	1		
pinocytosis	<u>1</u>	<u>0</u>	.00	< 0.01	-	1.00E00	3		
<del>-</del> endocytosis	<u>372</u>	<u>0</u>	.42	< 0.01	-	1.00E00	1		
<u> vesicle-mediated transport</u>	<u>800</u>	<u>0</u>	.91	< 0.01	-	1.00E00	2		
<u> </u>	<u>1668</u>	<u>0</u>	1.90	< 0.01	-	2.55E-01	2		
닉 <u>ocalization</u>	<u>1970</u>	<u>0</u>	2.25	< 0.01	-	1.62E-01	1		
endoderm development	<u>1</u>	0	.00	< 0.01	-	1.00E00	3		
4 <u>developmental process</u>	<u>1569</u>	<u>0</u>	1.79	< 0.01	-	2.55E-01	2		
nitrogen utilization	<u>1</u>	0	.00	< 0.01	-	1.00E00	3		
4nitrogen compound metabolic process	<u>2435</u>	<u>13</u>	2.78	4.68	+	4.92E-07	1		
nitric oxide biosynthetic process	<u>2</u>	<u>0</u>	.00	< 0.01	-	1.00E00	5		
mammary gland development	<u>2</u>	<u>0</u>	.00	< 0.01	-	1.00E00	4		
+system development	<u>357</u>	<u>0</u>	.41	< 0.01	-	1.00E00	3		
bile acid metabolic process	<u>2</u>	<u>0</u>	.00	< 0.01	-	1.00E00	4		
+steroid metabolic process	<u>100</u>	<u>0</u>	.11	< 0.01	-	1.00E00	1		
Hipid metabolic process	<u>572</u>	<u>0</u>	.65	< 0.01	-	1.00E00	1		
uprimary metabolic process	<u>4346</u>	<u>18</u>	4.96	3.63	+	1.75E-08	7		
disaccharide metabolic process	<u>2</u>	<u>0</u>	.00	< 0.01	-	1.00E00	4		
4carbohydrate metabolic process	<u>344</u>	<u>0</u>	.39	< 0.01	-	1.00E00	1		
termination of RNA polymerase II transcription	<u>3</u>	<u>0</u>	.00	< 0.01	-	1.00E00	4		
4transcription from RNA polymerase II promoter	<u>192</u>	<u>0</u>	.22	< 0.01	-	1.00E00	1		
4transcription, DNA-dependent	<u>485</u>	0	.55	< 0.01	-	1.00E00	1		
₽RNA metabolic process	<u>1023</u>	<u>6</u>	1.17	5.14	+	8.44E-04	2		
4nucleobase-containing compound metabolic process	<u>2050</u>	<u>18</u>	2.34	7.70	+	5.05E-14	4		
ferredoxin metabolic process	<u>3</u>	<u>0</u>	.00	< 0.01	-	1.00E00	4		

1/8/2018 PANTHER - C	ompare lists to reference	e iist					
<sup>L</sup> protein metabolic process	<u>1714</u>	2	1.95	1.02	+	1.00E00	2
prosthetic group metabolic process	<u>3</u>	<u>0</u>	.00	< 0.01	-	1.00E00	3
nitric oxide mediated signal transduction	<u>3</u>	<u>0</u>	.00	< 0.01	-	1.00E00	3
₩ <u>intracellular signal transduction</u>	<u>1000</u>	0	1.14	< 0.01	-	6.28E-01	4
4signal transduction	2162	0	2.47	< 0.01	-	1.67E-01	1
4cell communication	<u>2509</u>	<u>o</u>	2.86	< 0.01	-	1.05E-01	1
<del>-</del> cellular process	<u>7905</u>	<u>17</u>	9.02	1.89	+	1.17E-03	2
sex determination	4	<u>o</u>	.00	< 0.01	-	1.00E00	6
7-methylguanosine mRNA capping	<u>5</u>	<u>0</u>	.01	< 0.01	-	1.00E00	5
₩mRNA processing	<u>221</u>	2	.25	7.93	+	2.64E-02	3
regulation of vasoconstriction	<u>5</u>	<u>o</u>	.01	< 0.01	-	1.00E00	5
4 <u>regulation of biological process</u>	<u>3358</u>	4	3.83	1.04	+	7.86E-01	5
biological regulation	<u>3653</u>	4	4.17	.96	-	1.00E00	2
secondary metabolic process	<u>5</u>	<u>o</u>	.01	< 0.01	-	1.00E00	5
unsaturated fatty acid biosynthetic process	<u>5</u>	<u>o</u>	.01	< 0.01	-	1.00E00	5
4 fatty acid biosynthetic process	<u>56</u>	<u>o</u>	.06	< 0.01	-	1.00E00	1
4 fatty acid metabolic process	<u>178</u>	<u>o</u>	.20	< 0.01	-	1.00E00	2
regulation of binding	<u>6</u>	<u>0</u>	.01	< 0.01	-	1.00E00	6
4regulation of molecular function	412	<u>0</u>	.47	< 0.01	-	1.00E00	1
blood coagulation	<u>6</u>	<u>o</u>	.01	< 0.01	-	1.00E00	6
Gresponse to external stimulus	<u>294</u>	<u>0</u>	.34	< 0.01	-	1.00E00	1
4response to stimulus	<u> 2677</u>	9	3.05	2.95	+	1.90E-03	3
peroxisomal transport	<u>6</u>	<u>0</u>	.01	< 0.01	-	1.00E00	5
regulation of cellular amino acid metabolic process	<u>6</u>	<u>0</u>	.01	< 0.01	-	1.00E00	5
4cellular amino acid metabolic process	227	<u>o</u>	.26	< 0.01	-	1.00E00	2
protein ADP-ribosylation	<u>6</u>	<u>0</u>	.01	< 0.01	-	1.00E00	5
<sup>4</sup> protein glycosylation	<u>103</u>	<u>o</u>	.12	< 0.01	-	1.00E00	1
4cellular protein modification process	799	<u>0</u>	.91	< 0.01	-	1.00E00	1
sensory perception of pain	8	<u>0</u>	.01	< 0.01	-	1.00E00	3
-sensory perception	<u>409</u>	<u>o</u>	.47	< 0.01	-	1.00E00	1
uneurological system process	<u>816</u>	0	.93	< 0.01	-	1.00E00	1
+system process	910	<u>o</u>	1.04	< 0.01	_	6.24E-01	4
+single-multicellular organism process	<u>1463</u>	0	1.67	< 0.01	_	4.08E-01	3
pentose-phosphate shunt	8	0	.01	< 0.01	_	1.00E00	3
4monosaccharide metabolic process	102	0	.12	< 0.01	_	1.00E00	1
cell killing	<u>8</u>	0	.01	< 0.01	_	1.00E00	3
viral process	<u>8</u>	0	.01	< 0.01	-	1.00E00	3
polyphosphate catabolic process	<u>8</u>	0	.01	< 0.01	-	1.00E00	3
hphosphate-containing compound metabolic process	<u>858</u>	4	.98	4.09	+	1.54E-02	2
mRNA transcription	<u>10</u>	<u>0</u>	.01	< 0.01	-	1.00E00	2
hemopoiesis	<u>11</u>	<u>o</u>	.01	< 0.01	-	1.00E00	4
antigen processing and presentation	<u>11</u>	<u>0</u>	.01	< 0.01	-	1.00E00	4
Himmune system process	<u>268</u>	<u>0</u>	.31	< 0.01	-	1.00E00	1
asymmetric protein localization	<u>12</u>	<u>0</u>	.01	< 0.01	-	1.00E00	2
4protein localization	<u>484</u>	<u>0</u>	.55	< 0.01	-	1.00E00	1
vitamin transport	<u>12</u>	<u>o</u>	.01	< 0.01	-	1.00E00	2
DNA catabolic process	<u>12</u>	<u>0</u>	.01	< 0.01	-	1.00E00	1
₩DNA metabolic process	<u>381</u>	<u>18</u>	.43	41.42	+	8.15E-27	9
circadian rhythm	<u>13</u>	<u>0</u>	.01	< 0.01	-	1.00E00	2
₽ <u>rhythmic process</u>	<u>13</u>	<u>0</u>	.01	< 0.01	-	1.00E00	2
skeletal system development	<u>13</u>	<u>0</u>	.01	< 0.01	-	1.00E00	2
pteridine-containing compound metabolic process	<u>14</u>	<u>o</u>	.02	< 0.01	-	1.00E00	1
response to toxic substance	<u>14</u>	<u>0</u>	.02	< 0.01	-	1.00E00	1
dorsal/ventral axis specification	<u>14</u>	<u>0</u>	.02	< 0.01	-	1.00E00	1
Lapattern specification process	<u>104</u>	0	.12	< 0.01	-	1.00E00	1
vitamin biosynthetic process	<u>16</u>	0	.02	< 0.01	-	1.00E00	2
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1/8/2018 PANTHER - Comp	are lists to referer	nce list					
angiogenesis	<u>16</u>	<u>0</u>	.02	< 0.01	-	1.00E00	2
female gamete generation	<u>16</u>	<u>0</u>	.02	< 0.01	-	1.00E00	2
-gamete generation	<u>161</u>	<u>0</u>	.18	< 0.01	-	1.00E00	1
4 <u>reproduction</u>	<u>266</u>	<u>0</u>	.30	< 0.01	-	1.00E00	1
anterior/posterior axis specification	<u>16</u>	<u>o</u>	.02	< 0.01	-	1.00E00	2
JAK-STAT cascade	<u>17</u>	<u>o</u>	.02	< 0.01	-	1.00E00	1
<u>lysosomal transport</u>	<u>17</u>	<u>o</u>	.02	< 0.01	-	1.00E00	1
blood circulation	<u>17</u>	<u>o</u>	.02	< 0.01	-	1.00E00	1
heart development	<u>18</u>	<u>o</u>	.02	< 0.01	-	1.00E00	1
phosphate ion transport	<u>19</u>	<u>o</u>	.02	< 0.01	-	1.00E00	2
mitochondrial translation	<u>19</u>	<u>o</u>	.02	< 0.01	-	1.00E00	2
₩translation	<u>141</u>	<u>o</u>	.16	< 0.01	-	1.00E00	1
+mitochondrion organization	110	<u>o</u>	.13	< 0.01	-	1.00E00	3
Granelle organization	1152	<u>0</u>	1.31	< 0.01	-	6.40E-01	4
Gellular component organization	<u>1543</u>	0	1.76	< 0.01	_	2.55E-01	2
4-cellular component organization or biogenesis	1685	0	1.92	< 0.01	_	2.56E-01	2
muscle organ development	19	0	.02	< 0.01	_	1.00E00	2
digestive tract mesoderm development	19	0	.02	< 0.01	_	1.00E00	2
4-mesoderm development	278	0	.32	< 0.01	_	1.00E00	2
fatty acid beta-oxidation	20		.02	< 0.01	_	1.00E00	1
		0	.02			1.00E00	3
tricarboxylic acid cycle	21	0		< 0.01	-	1.00E00	3 1
gluconeogenesis	23	0	.03	< 0.01	-	2.70E-02	
regulation of carbohydrate metabolic process	23	1 0	.03	38.12 < 0.01	+	1.00E00	3 1
mRNA polyadenylation	<u>24</u>	0	.03		-		
4mRNA 3'-end processing	<u>35</u>	0	.04	< 0.01	-	1.00E00	1
cellular glucose homeostasis	<u>24</u>	0	.03	< 0.01	-	1.00E00	1
homeostatic process	<u>262</u>	0	.30	< 0.01	-	1.00E00	1
porphyrin-containing compound metabolic process	<u>26</u>	0	.03	< 0.01	-	1.00E00	1
cytokine production	<u>27</u>	0	.03	< 0.01	-	1.00E00	2
carbohydrate transport	<u>27</u>	0	.03	< 0.01	-	1.00E00	2
transcription elongation from RNA polymerase II promoter	<u>29</u>	0	.03	< 0.01	-	1.00E00	1
glycolysis	<u>29</u>	0	.03	< 0.01	-	1.00E00	1
Legeneration of precursor metabolites and energy	<u>151</u>	0	.17	< 0.01	-	1.00E00	1
cholesterol metabolic process	<u>29</u>	0	.03	< 0.01	-	1.00E00	1
pyrimidine nucleobase metabolic process	<u>30</u>	0	.03	< 0.01	-	1.00E00	1
sensory perception of sound	<u>31</u>	0	.04	< 0.01	-	1.00E00	1
regulation of sequence-specific DNA binding transcription factor activity	32	0	.04	< 0.01	-	1.00E00	1
JNK cascade	32	0	.04	< 0.01	-	1.00E00	1
►MAPK cascade	<u>329</u>	0	.38	< 0.01	-	1.00E00	2
chromatin remodeling	<u>34</u>	0	.04	< 0.01	-	1.00E00	1
glycogen metabolic process	<u>35</u>	0	.04	< 0.01	-	1.00E00	1
<sup>L</sup> polysaccharide metabolic process	<u>92</u>	0	.10	< 0.01	-	1.00E00	1
acyl-CoA metabolic process	<u>37</u>	0	.04	< 0.01	-	1.00E00	3
4-coenzyme metabolic process	<u>71</u>	0	.08	< 0.01	-	1.00E00	1
protein methylation	<u>39</u>	0	.04	< 0.01	-	1.00E00	1
<u>chromatin assembly</u>	<u>40</u>	0	.05	< 0.01	-	1.00E00	1
induction of apoptosis	<u>40</u>	0	.05	< 0.01	-	1.00E00	1
4 <u>apoptotic process</u>	<u>440</u>	0	.50	< 0.01	-	1.00E00	2
<del>Local death</del>	<u>460</u>	<u>0</u>	.52	< 0.01	-	1.00E00	1
<u> ⁴death</u>	<u>460</u>	<u>0</u>	.52	< 0.01	-	1.00E00	1
sensory perception of taste	<u>40</u>	0	.05	< 0.01	-	1.00E00	1
4sensory perception of chemical stimulus	<u>280</u>	<u>0</u>	.32	< 0.01	-	1.00E00	1
regulation of translation	<u>41</u>	<u>0</u>	.05	< 0.01	-	1.00E00	1
mitochondrial transport	<u>41</u>	<u>0</u>	.05	< 0.01	-	1.00E00	1
I-kappaB kinase/NF-kappaB cascade	<u>43</u>	<u>0</u>	.05	< 0.01	-	1.00E00	2
tRNA aminoacylation for protein translation	44	0	.05	< 0.01	-	1.00E00	1
cell growth	44	<u>0</u>	.05	< 0.01	-	1.00E00	1

<u> </u>	<u>50</u>	0	.06	< 0.01	-	1.00E00	1
transcription initiation from RNA polymerase II promoter	<u>48</u>	0	.05	< 0.01	-	1.00E00	2
<u>fertilization</u>	<u>48</u>	0	.05	< 0.01	-	1.00E00	2
DNA recombination	<u>49</u>	<u>0</u>	.06	< 0.01	-	1.00E00	1
neuron-neuron synaptic transmission	<u>49</u>	<u>0</u>	.06	< 0.01	-	1.00E00	1
4-synaptic transmission	<u>328</u>	0	.37	< 0.01	-	1.00E00	1
4cell-cell signaling	<u>513</u>	0	.59	< 0.01	-	1.00E00	1
oxidative phosphorylation	<u>50</u>	<u>0</u>	.06	< 0.01	-	1.00E00	1
cellular amino acid catabolic process	<u>53</u>	<u>0</u>	.06	< 0.01	-	1.00E00	1
cell-matrix adhesion	<u>53</u>	0	.06	< 0.01	-	1.00E00	1
<u> </u>	<u>336</u>	0	.38	< 0.01	-	1.00E00	4
4biological adhesion	<u>336</u>	<u>o</u>	.38	< 0.01	-	1.00E00	4
neuromuscular synaptic transmission	<u>54</u>	<u>o</u>	.06	< 0.01	-	1.00E00	1
calcium-mediated signaling	<u>54</u>	<u>0</u>	.06	< 0.01	-	1.00E00	1
regulation of gene expression, epigenetic	<u>56</u>	<u>0</u>	.06	< 0.01	-	1.00E00	1
purine nucleobase metabolic process	<u>57</u>	0	.07	< 0.01	-	1.00E00	1
meiosis	<u>57</u>	0	.07	< 0.01	-	1.00E00	1
<u> </u>	<u>814</u>	<u>5</u>	.93	5.39	+	2.01E-03	3
response to interferon-gamma	<u>58</u>	<u>0</u>	.07	< 0.01	-	1.00E00	1
<del>'immune response</del>	<u>355</u>	0	.40	< 0.01	-	1.00E00	2
protein lipidation	<u>58</u>	0	.07	< 0.01	-	1.00E00	1
cell proliferation	<u>60</u>	0	.07	< 0.01	-	1.00E00	1
cellular amino acid biosynthetic process	<u>63</u>	0	.07	< 0.01	-	1.00E00	1
protein acetylation	6 <u>3</u>	0	.07	< 0.01	-	1.00E00	1
transmembrane receptor protein serine/threonine kinase signaling pathway	<u>64</u>	0	.07	< 0.01	-	1.00E00	1
Cell surface receptor signaling pathway	1110	0	1.27	< 0.01	-	6.36E-01	4
synaptic vesicle exocytosis	<u>65</u>	0	.07	< 0.01	_	1.00E00	1
	<u>245</u>	0	.28	< 0.01	_	1.00E00	1
under the secretion under	37	0	.04	< 0.01	_	1.00E00	3
visual perception	6 <u>9</u>	0	.08	< 0.01	_	1.00E00	1
lipid transport	6 <u>9</u>	0	.08	< 0.01	_	1.00E00	1
RNA catabolic process	70	2	.08	25.05	+	3.03E-03	5
cytokine-mediated signaling pathway	74	0	.08	< 0.01	_	1.00E00	1
response to abiotic stimulus	7 <u>5</u>	0	.09	< 0.01	_	1.00E00	1
behavior	76	0	.09	< 0.01	_	1.00E00	1
cyclic nucleotide metabolic process	<u>76</u>	0	.09	< 0.01	_	1.00E00	1
sulfur compound metabolic process	<u>78</u>	0	.09	< 0.01	_	1.00E00	1
amino acid transport	<u>79</u>	0	.09	< 0.01	-	1.00E00	2
segment specification	80	0	.09	< 0.01	-	1.00E00	1
protein phosphorylation	80	0	.09	< 0.01	-	1.00E00	1
RNA localization	<u>82</u>	0	.09	< 0.01	-	1.00E00	2
cellular calcium ion homeostasis	<u>85</u>	0	.10	< 0.01	-	1.00E00	1
complement activation	<u>86</u>	0	.10	< 0.01	-	1.00E00	1
B cell mediated immunity	<u>87</u>	<u>0</u>	.10	< 0.01	-	1.00E00	2
spermatogenesis	<u>88</u>	<u>0</u>	.10	< 0.01	-	1.00E00	1
cation transport	<u>89</u>	0	.10	< 0.01	-	1.00E00	1
<del>Lion transport</del>	<u>361</u>	<u>0</u>	.41	< 0.01	-	1.00E00	1
protein folding	<u>89</u>	<u>0</u>	.10	< 0.01	-	1.00E00	1
cell recognition	92	0	.10	< 0.01	-	1.00E00	1
chromosome segregation	9 <u>5</u>	0	.11	< 0.01	-	1.00E00	2
embryo development	9 <u>5</u>	0	.11	< 0.01	-	1.00E00	2
negative regulation of apoptotic process	98	0	.11	< 0.01	-	1.00E00	1
receptor-mediated endocytosis	<u>103</u>	0	.12	< 0.01	-	1.00E00	1
defense response to bacterium	<u>104</u>	<u>0</u>	.12	< 0.01	-	1.00E00	1
cellular defense response	<u>106</u>	<u>0</u>	.12	< 0.01	-	1.00E00	1
nucleobase-containing compound transport	<u>107</u>	<u>0</u>	.12	< 0.01	-	1.00E00	1
rRNA metabolic process	<u>111</u>	<u>0</u>	.13	< 0.01	-	1.00E00	3
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1/8/2018	PANTHER - Compar	PANTHER - Compare lists to reference list								
muscle contraction	1	112	1.0	10	< 0.01					

1/8/2018 PANTHER - Comp	are lists to referer	nce list					
muscle contraction	<u>112</u>	<u>0</u>	.13	< 0.01	-	1.00E00	1
tRNA metabolic process	<u>112</u>	2	.13	15.66	+	7.41E-03	1
respiratory electron transport chain	<u>117</u>	<u>0</u>	.13	< 0.01	-	1.00E00	3
nuclear transport	<u>119</u>	<u>0</u>	.14	< 0.01	-	1.00E00	4
<u>cell-cell adhesion</u>	<u>121</u>	<u>0</u>	.14	< 0.01	-	1.00E00	1
<u>cytokinesis</u>	<u>131</u>	<u>0</u>	.15	< 0.01	-	1.00E00	1
RNA splicing, via transesterification reactions	<u>139</u>	<u>0</u>	.16	< 0.01	-	1.00E00	1
₽RNA splicing	<u>150</u>	<u>0</u>	.17	< 0.01	-	1.00E00	1
response to biotic stimulus	<u>147</u>	<u>0</u>	.17	< 0.01	-	1.00E00	1
transmembrane receptor protein tyrosine kinase signaling pathway	<u>151</u>	<u>0</u>	.17	< 0.01	-	1.00E00	1
DNA replication	<u>156</u>	<u>17</u>	.18	95.54	+	5.17E-31	1
protein targeting	<u>160</u>	<u>0</u>	.18	< 0.01	-	1.00E00	1
<del>\fracellular protein transport</del>	<u>688</u>	<u>o</u>	.78	< 0.01	-	1.00E00	2
₩protein transport	<u>720</u>	<u>o</u>	.82	< 0.01	-	1.00E00	1
mRNA splicing, via spliceosome	<u>161</u>	2	.18	10.89	+	1.47E-02	2
DNA repair	<u>162</u>	9	.18	48.71	+	1.46E-13	8
regulation of cell cycle	<u>164</u>	<u>o</u>	.19	< 0.01	-	1.00E00	1
phospholipid metabolic process	<u>177</u>	<u>o</u>	.20	< 0.01	-	1.00E00	2
phagocytosis	<u>178</u>	<u>o</u>	.20	< 0.01	-	1.00E00	2
ectoderm development	<u>206</u>	<u>o</u>	.23	< 0.01	-	1.00E00	2
response to endogenous stimulus	<u>219</u>	<u>o</u>	.25	< 0.01	-	1.00E00	4
anion transport	<u>220</u>	<u>o</u>	.25	< 0.01	-	1.00E00	4
mitosis	<u>221</u>	<u>o</u>	.25	< 0.01	-	1.00E00	4
protein complex assembly	<u>237</u>	<u>o</u>	.27	< 0.01	-	1.00E00	1
→protein complex biogenesis	<u>1</u>	<u>0</u>	.00	< 0.01	-	1.00E00	3
4cellular component biogenesis	<u>504</u>	<u>o</u>	.57	< 0.01	-	1.00E00	1
nervous system development	<u>238</u>	<u>o</u>	.27	< 0.01	-	1.00E00	1
sensory perception of smell	<u>240</u>	<u>o</u>	.27	< 0.01	-	1.00E00	2
locomotion	<u>253</u>	<u>o</u>	.29	< 0.01	-	1.00E00	2
chromatin organization	<u>255</u>	<u>o</u>	.29	< 0.01	-	1.00E00	1
regulation of catalytic activity	<u>338</u>	<u>o</u>	.39	< 0.01	-	1.00E00	2
cellular component morphogenesis	<u>339</u>	<u>o</u>	.39	< 0.01	-	1.00E00	2
→anatomical structure morphogenesis	<u>470</u>	<u>0</u>	.54	< 0.01	-	1.00E00	1
cytoskeleton organization	<u>379</u>	<u>0</u>	.43	< 0.01	-	1.00E00	1
<u>cellular component movement</u>	<u>407</u>	<u>o</u>	.46	< 0.01	-	1.00E00	1
proteolysis	<u>420</u>	<u>o</u>	.48	< 0.01	-	1.00E00	1
cell differentiation	<u>459</u>	<u>o</u>	.52	< 0.01	-	1.00E00	1
G-protein coupled receptor signaling pathway	<u>470</u>	<u>o</u>	.54	< 0.01	-	1.00E00	1
regulation of phosphate metabolic process	<u>479</u>	<u>0</u>	.55	< 0.01	-	1.00E00	1
regulation of transcription from RNA polymerase II promoter	<u>548</u>	<u>3</u>	.63	4.80	+	2.39E-02	3
4regulation of nucleobase-containing compound metabolic process	<u>1151</u>	<u>3</u>	1.31	2.29	+	1.42E-01	1
response to stress	<u>684</u>	9	.78	11.54	+	3.60E-08	1
<u>catabolic process</u>	<u>1127</u>	4	1.29	3.11	+	3.72E-02	4
biosynthetic process	<u>1659</u>	<u>13</u>	1.89	6.87	+	5.15E-09	2
Unclassified	<u>10635</u>	<u>6</u>	12.13	.49	-	1.37E-02	2

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