

**Supplementary Table S3.** Biological process gene ontology terms for 479 DEGs from HKCs (TGFβ1 + CMS) vs. HCFs (TGFβ1 + CMS) (FDR ≤ 0.05).

	Homo sapiens (REF)		Client Text Box Input (Hierarchy NEW! ?)				
<a href="#">GO biological process complete</a>	#	#	expected	Fold Enrichment	+/-	raw P value	FDR
<a href="#">MDA-5 signaling pathway</a>	<a href="#">4</a>	<a href="#">3</a>	.09	34.55	+	3.13E-04	2.74E-02
↳ <a href="#">cytoplasmic pattern recognition receptor signaling pathway in response to virus</a>	<a href="#">11</a>	<a href="#">4</a>	.24	16.75	+	2.28E-04	2.18E-02
↳ <a href="#">defense response to virus</a>	<a href="#">253</a>	<a href="#">27</a>	5.49	4.92	+	6.73E-11	8.79E-08
↳ <a href="#">response to virus</a>	<a href="#">357</a>	<a href="#">33</a>	7.75	4.26	+	1.74E-11	4.54E-08
↳ <a href="#">response to other organism</a>	<a href="#">1429</a>	<a href="#">62</a>	31.02	2.00	+	3.38E-07	1.06E-04
↳ <a href="#">biological process involved in interspecies interaction between organisms</a>	<a href="#">1602</a>	<a href="#">65</a>	34.78	1.87	+	2.00E-06	4.89E-04
↳ <a href="#">response to external biotic stimulus</a>	<a href="#">1432</a>	<a href="#">63</a>	31.09	2.03	+	1.91E-07	6.50E-05
↳ <a href="#">response to biotic stimulus</a>	<a href="#">1478</a>	<a href="#">63</a>	32.09	1.96	+	5.05E-07	1.47E-04
↳ <a href="#">response to stimulus</a>	<a href="#">8209</a>	<a href="#">247</a>	178.22	1.39	+	9.18E-11	1.03E-07
↳ <a href="#">response to external stimulus</a>	<a href="#">2469</a>	<a href="#">107</a>	53.60	2.00	+	4.98E-12	3.91E-08
↳ <a href="#">defense response to symbiont</a>	<a href="#">254</a>	<a href="#">27</a>	5.51	4.90	+	7.30E-11	8.80E-08
↳ <a href="#">defense response to other organism</a>	<a href="#">1068</a>	<a href="#">49</a>	23.19	2.11	+	1.70E-06	4.29E-04
↳ <a href="#">defense response</a>	<a href="#">1478</a>	<a href="#">68</a>	32.09	2.12	+	1.14E-08	5.44E-06
↳ <a href="#">response to stress</a>	<a href="#">3466</a>	<a href="#">107</a>	75.25	1.42	+	1.62E-04	1.68E-02
↳ <a href="#">signal transduction</a>	<a href="#">4887</a>	<a href="#">161</a>	106.10	1.52	+	8.88E-09	4.35E-06

process	↳ <a href="#">regulation of cellular process</a>	<a href="#">11187</a>	$\frac{3}{01}$	242. 88	1.24	+	3.76E- 08	1.51 E-05
	↳ <a href="#">regulation of biological</a>	<a href="#">11806</a>	$\frac{3}{20}$	256. 32	1.25	+	8.56E- 10	5.84 E-07
	↳ <a href="#">biological regulation</a>	<a href="#">12544</a>	$\frac{3}{29}$	272. 34	1.21	+	3.30E- 08	1.36 E-05
	↳ <a href="#">signaling</a>	<a href="#">5231</a>	$\frac{1}{78}$	113. 57	1.57	+	4.96E- 11	7.06 E-08
	↳ <a href="#">cellular process</a>	<a href="#">15044</a>	$\frac{3}{68}$	326. 61	1.13	+	6.74E- 06	1.39 E-03
	↳ <a href="#">cell communication</a>	<a href="#">5342</a>	$\frac{1}{78}$	115. 98	1.53	+	2.91E- 10	2.68 E-07
stimulus	↳ <a href="#">cellular response to stimulus</a>	<a href="#">6569</a>	$\frac{2}{06}$	142. 62	1.44	+	6.49E- 10	4.62 E-07
	↳ <a href="#">regulation of response to</a>	<a href="#">4034</a>	$\frac{1}{42}$	87.5 8	1.62	+	2.09E- 09	1.22 E-06
	↳ <a href="#">intracellular signal transduction</a>	<a href="#">1511</a>	$\frac{5}{8}$	32.8 0	1.77	+	3.56E- 05	5.26 E-03
	<a href="#">interleukin-27-mediated signaling pathway</a>	<a href="#">7</a>	$\frac{4}{}$	.15	26.32	+	5.90E- 05	7.52 E-03
	↳ <a href="#">cell surface receptor signaling pathway</a>	<a href="#">2174</a>	$\frac{7}{7}$	47.2 0	1.63	+	2.58E- 05	4.08 E-03
	↳ <a href="#">cellular response to cytokine stimulus</a>	<a href="#">714</a>	$\frac{3}{4}$	15.5 0	2.19	+	4.13E- 05	5.74 E-03
	↳ <a href="#">cellular response to organic substance</a>	<a href="#">2026</a>	$\frac{7}{0}$	43.9 9	1.59	+	1.58E- 04	1.65 E-02
	↳ <a href="#">cellular response to chemical stimulus</a>	<a href="#">2616</a>	$\frac{9}{7}$	56.7 9	1.71	+	2.12E- 07	6.94 E-05
	↳ <a href="#">response to chemical</a>	<a href="#">4060</a>	$\frac{1}{24}$	88.1 5	1.41	+	5.60E- 05	7.20 E-03
	↳ <a href="#">response to cytokine</a>	<a href="#">808</a>	$\frac{3}{9}$	17.5 4	2.22	+	7.21E- 06	1.47 E-03
	<a href="#">protein mono-ADP-ribosylation</a>	<a href="#">12</a>	$\frac{5}{}$	.26	19.19	+	2.12E- 05	3.50 E-03
	<a href="#">sequestering of extracellular ligand from receptor</a>	<a href="#">10</a>	$\frac{4}{}$	.22	18.42	+	1.70E- 04	1.74 E-02

↳ <a href="#">extracellular negative regulation of signal transduction</a>	<a href="#">12</a>	<a href="#">4</a>	.26	15.35	+	2.99E-04	2.68E-02
↳ <a href="#">extracellular regulation of signal transduction</a>	<a href="#">12</a>	<a href="#">4</a>	.26	15.35	+	2.99E-04	2.66E-02
↳ <a href="#">regulation of signal transduction</a>	<a href="#">2989</a>	<a href="#">1 1 2</a>	64.89	1.73	+	7.10E-09	3.84E-06
↳ <a href="#">regulation of cell communication</a>	<a href="#">3369</a>	<a href="#">1 2 5</a>	73.14	1.71	+	1.09E-09	6.81E-07
↳ <a href="#">regulation of signaling</a>	<a href="#">3381</a>	<a href="#">1 2 7</a>	73.40	1.73	+	3.33E-10	2.90E-07
↳ <a href="#">negative regulation of signal transduction</a>	<a href="#">1257</a>	<a href="#">5 7</a>	27.29	2.09	+	2.88E-07	9.21E-05
↳ <a href="#">negative regulation of cell communication</a>	<a href="#">1357</a>	<a href="#">5 9</a>	29.46	2.00	+	7.45E-07	2.05E-04
↳ <a href="#">negative regulation of cellular process</a>	<a href="#">4732</a>	<a href="#">1 5 5</a>	102.73	1.51	+	3.22E-08	1.36E-05
↳ <a href="#">negative regulation of biological process</a>	<a href="#">5314</a>	<a href="#">1 8 0</a>	115.37	1.56	+	4.44E-11	6.96E-08
↳ <a href="#">negative regulation of signaling</a>	<a href="#">1363</a>	<a href="#">6 0</a>	29.59	2.03	+	4.70E-07	1.39E-04
↳ <a href="#">negative regulation of response to stimulus</a>	<a href="#">1620</a>	<a href="#">7 0</a>	35.17	1.99	+	7.99E-08	2.98E-05
<a href="#">positive regulation of non-canonical Wnt signaling pathway</a>	<a href="#">15</a>	<a href="#">4</a>	.33	12.28	+	6.05E-04	4.52E-02
↳ <a href="#">regulation of Wnt signaling pathway</a>	<a href="#">332</a>	<a href="#">1 8</a>	7.21	2.50	+	5.43E-04	4.13E-02
↳ <a href="#">positive regulation of signal transduction</a>	<a href="#">1528</a>	<a href="#">5 9</a>	33.17	1.78	+	2.59E-05	4.06E-03
↳ <a href="#">positive regulation of signaling</a>	<a href="#">1701</a>	<a href="#">6 5</a>	36.93	1.76	+	1.33E-05	2.40E-03
↳ <a href="#">positive regulation of biological process</a>	<a href="#">6304</a>	<a href="#">2 0 0</a>	136.86	1.46	+	5.71E-10	4.26E-07
↳ <a href="#">positive regulation of cell communication</a>	<a href="#">1696</a>	<a href="#">6 5</a>	36.82	1.77	+	1.28E-05	2.34E-03
↳ <a href="#">positive regulation of cellular process</a>	<a href="#">5670</a>	<a href="#">1 7 5</a>	123.10	1.42	+	1.49E-07	5.18E-05

<a href="#">positive regulation of response to stimulus</a>	<a href="#">2223</a>	<a href="#">7</a> <a href="#">9</a>	48.2 6	1.64	+	1.59E- 05	2.77 E-03
<a href="#">fibroblast migration</a>	<a href="#">19</a>	<a href="#">5</a>	.41	12.12	+	1.29E- 04	1.44 E-02
<a href="#">cell migration</a>	<a href="#">903</a>	<a href="#">4</a> <a href="#">1</a>	19.6 0	2.09	+	1.45E- 05	2.55 E-03
<a href="#">cell motility</a>	<a href="#">1061</a>	<a href="#">4</a> <a href="#">4</a>	23.0 3	1.91	+	6.09E- 05	7.70 E-03
<a href="#">mesenchymal cell proliferation</a>	<a href="#">28</a>	<a href="#">5</a>	.61	8.23	+	6.15E- 04	4.57 E-02
<a href="#">cell population proliferation</a>	<a href="#">718</a>	<a href="#">3</a> <a href="#">1</a>	15.5 9	1.99	+	4.14E- 04	3.33 E-02
<a href="#">negative regulation of viral genome replication</a>	<a href="#">57</a>	<a href="#">1</a> <a href="#">0</a>	1.24	8.08	+	1.43E- 06	3.67 E-04
<a href="#">regulation of viral genome replication</a>	<a href="#">87</a>	<a href="#">1</a> <a href="#">0</a>	1.89	5.29	+	4.10E- 05	5.80 E-03
<a href="#">regulation of viral life cycle</a>	<a href="#">142</a>	<a href="#">1</a> <a href="#">2</a>	3.08	3.89	+	1.15E- 04	1.31 E-02
<a href="#">regulation of viral process</a>	<a href="#">164</a>	<a href="#">1</a> <a href="#">4</a>	3.56	3.93	+	2.86E- 05	4.36 E-03
<a href="#">negative regulation of viral process</a>	<a href="#">95</a>	<a href="#">1</a> <a href="#">4</a>	2.06	6.79	+	7.97E- 08	3.05 E-05
<a href="#">cell adhesion mediated by integrin</a>	<a href="#">41</a>	<a href="#">6</a>	.89	6.74	+	4.57E- 04	3.62 E-02
<a href="#">cell adhesion</a>	<a href="#">969</a>	<a href="#">5</a> <a href="#">7</a>	21.0 4	2.71	+	3.14E- 11	6.16 E-08
<a href="#">positive regulation of interferon-beta production</a>	<a href="#">41</a>	<a href="#">6</a>	.89	6.74	+	4.57E- 04	3.60 E-02
<a href="#">regulation of cytokine production</a>	<a href="#">742</a>	<a href="#">3</a> <a href="#">7</a>	16.1 1	2.30	+	5.52E- 06	1.22 E-03
<a href="#">regulation of multicellular organismal process</a>	<a href="#">2750</a>	<a href="#">1</a> <a href="#">0</a> <a href="#">9</a>	59.7 0	1.83	+	5.29E- 10	4.15 E-07
<a href="#">positive regulation of cytokine production</a>	<a href="#">481</a>	<a href="#">2</a> <a href="#">4</a>	10.4 4	2.30	+	2.43E- 04	2.27 E-02
<a href="#">positive regulation of multicellular organismal process</a>	<a href="#">1515</a>	<a href="#">6</a> <a href="#">3</a>	32.8 9	1.92	+	1.13E- 06	2.94 E-04
<a href="#">regulation of interferon-beta production</a>	<a href="#">58</a>	<a href="#">7</a>	1.26	5.56	+	4.49E- 04	3.59 E-02
<a href="#">cellular response to type I interferon</a>	<a href="#">44</a>	<a href="#">6</a>	.96	6.28	+	6.41E- 04	4.72 E-02
<a href="#">response to type I interferon</a>	<a href="#">52</a>	<a href="#">8</a>	1.13	7.09	+	3.80E- 05	5.46 E-03

↳ <a href="#">innate immune response</a>	<a href="#">832</a>	<a href="#">4</a> <a href="#">3</a>	18.0 6	2.38	+	4.12E- 07	1.24 E-04
↳ <a href="#">immune response</a>	<a href="#">1621</a>	<a href="#">6</a> <a href="#">4</a>	35.1 9	1.82	+	5.52E- 06	1.20 E-03
↳ <a href="#">immune system process</a>	<a href="#">2429</a>	<a href="#">9</a> <a href="#">0</a>	52.7 4	1.71	+	6.34E- 07	1.81 E-04
<a href="#">negative regulation of innate immune response</a>	<a href="#">76</a>	<a href="#">1</a> <a href="#">0</a>	1.65	6.06	+	1.42E- 05	2.53 E-03
↳ <a href="#">negative regulation of response to external stimulus</a>	<a href="#">391</a>	<a href="#">2</a> <a href="#">1</a>	8.49	2.47	+	3.49E- 04	2.91 E-02
↳ <a href="#">regulation of response to external stimulus</a>	<a href="#">973</a>	<a href="#">4</a> <a href="#">5</a>	21.1 2	2.13	+	3.39E- 06	7.93 E-04
↳ <a href="#">negative regulation of response to biotic stimulus</a>	<a href="#">114</a>	<a href="#">1</a> <a href="#">0</a>	2.48	4.04	+	3.21E- 04	2.78 E-02
↳ <a href="#">regulation of response to biotic stimulus</a>	<a href="#">364</a>	<a href="#">2</a> <a href="#">2</a>	7.90	2.78	+	3.02E- 05	4.55 E-03
↳ <a href="#">regulation of defense response</a>	<a href="#">642</a>	<a href="#">3</a> <a href="#">3</a>	13.9 4	2.37	+	9.17E- 06	1.77 E-03
↳ <a href="#">negative regulation of defense response</a>	<a href="#">236</a>	<a href="#">1</a> <a href="#">5</a>	5.12	2.93	+	3.31E- 04	2.81 E-02
<a href="#">regulation of actin filament depolymerization</a>	<a href="#">56</a>	<a href="#">7</a>	1.22	5.76	+	3.70E- 04	3.07 E-02
↳ <a href="#">regulation of cellular component organization</a>	<a href="#">2364</a>	<a href="#">8</a> <a href="#">2</a>	51.3 2	1.60	+	2.63E- 05	4.04 E-03
↳ <a href="#">regulation of actin polymerization or depolymerization</a>	<a href="#">158</a>	<a href="#">1</a> <a href="#">2</a>	3.43	3.50	+	2.91E- 04	2.62 E-02
↳ <a href="#">regulation of actin filament length</a>	<a href="#">161</a>	<a href="#">1</a> <a href="#">2</a>	3.50	3.43	+	3.41E- 04	2.86 E-02
↳ <a href="#">regulation of actin cytoskeleton organization</a>	<a href="#">364</a>	<a href="#">2</a> <a href="#">1</a>	7.90	2.66	+	8.53E- 05	1.01 E-02
↳ <a href="#">regulation of actin filament-based process</a>	<a href="#">405</a>	<a href="#">2</a> <a href="#">4</a>	8.79	2.73	+	1.79E- 05	3.06 E-03
↳ <a href="#">regulation of cellular component size</a>	<a href="#">372</a>	<a href="#">2</a> <a href="#">1</a>	8.08	2.60	+	1.14E- 04	1.30 E-02
↳ <a href="#">cellular component organization</a>	<a href="#">5523</a>	<a href="#">1</a> <a href="#">6</a> <a href="#">1</a>	119. 91	1.34	+	2.54E- 05	4.06 E-03
↳ <a href="#">cellular component organization or biogenesis</a>	<a href="#">5727</a>	<a href="#">1</a> <a href="#">6</a> <a href="#">1</a>	124. 34	1.29	+	1.88E- 04	1.89 E-02

size	<a href="#">regulation of anatomical structure</a>	<a href="#">511</a>	<a href="#">2</a> <a href="#">7</a>	11.0 9	2.43	+	4.53E- 05	6.08 E-03
	<a href="#">regulation of actin filament organization</a>	<a href="#">276</a>	<a href="#">1</a> <a href="#">6</a>	5.99	2.67	+	5.53E- 04	4.19 E-02
	<a href="#">regulation of establishment of planar polarity</a>	<a href="#">58</a>	<a href="#">7</a>	1.26	5.56	+	4.49E- 04	3.57 E-02
	<a href="#">regulation of anatomical structure morphogenesis</a>	<a href="#">924</a>	<a href="#">5</a> <a href="#">0</a>	20.0 6	2.49	+	8.44E- 09	4.27 E-06
	<a href="#">regulation of developmental process</a>	<a href="#">2489</a>	<a href="#">1</a> <a href="#">0</a> <a href="#">3</a>	54.0 4	1.91	+	2.11E- 10	2.07 E-07
	<a href="#">collagen fibril organization</a>	<a href="#">60</a>	<a href="#">7</a>	1.30	5.37	+	5.41E- 04	4.14 E-02
	<a href="#">supramolecular fiber organization</a>	<a href="#">580</a>	<a href="#">2</a> <a href="#">9</a>	12.5 9	2.30	+	7.47E- 05	9.15 E-03
	<a href="#">extracellular matrix organization</a>	<a href="#">280</a>	<a href="#">3</a> <a href="#">0</a>	6.08	4.94	+	5.22E- 12	2.73 E-08
	<a href="#">extracellular structure organization</a>	<a href="#">281</a>	<a href="#">3</a> <a href="#">0</a>	6.10	4.92	+	5.67E- 12	2.22 E-08
	<a href="#">external encapsulating structure organization</a>	<a href="#">283</a>	<a href="#">3</a> <a href="#">0</a>	6.14	4.88	+	6.67E- 12	2.09 E-08
	<a href="#">nephron tubule development</a>	<a href="#">83</a>	<a href="#">9</a>	1.80	4.99	+	1.49E- 04	1.59 E-02
	<a href="#">renal tubule development</a>	<a href="#">87</a>	<a href="#">1</a> <a href="#">0</a>	1.89	5.29	+	4.10E- 05	5.75 E-03
	<a href="#">tube development</a>	<a href="#">885</a>	<a href="#">3</a> <a href="#">9</a>	19.2 1	2.03	+	5.37E- 05	6.96 E-03
	<a href="#">anatomical structure development</a>	<a href="#">5144</a>	<a href="#">1</a> <a href="#">7</a> <a href="#">6</a>	111. 68	1.58	+	3.94E- 11	6.87 E-08
	<a href="#">developmental process</a>	<a href="#">5677</a>	<a href="#">1</a> <a href="#">9</a> <a href="#">0</a>	123. 25	1.54	+	2.51E- 11	5.62 E-08
	<a href="#">multicellular organism development</a>	<a href="#">4228</a>	<a href="#">1</a> <a href="#">5</a> <a href="#">6</a>	91.7 9	1.70	+	3.35E- 12	5.25 E-08
	<a href="#">multicellular organismal process</a>	<a href="#">6581</a>	<a href="#">2</a> <a href="#">0</a> <a href="#">2</a>	142. 88	1.41	+	8.33E- 09	4.35 E-06
	<a href="#">tissue development</a>	<a href="#">1726</a>	<a href="#">7</a> <a href="#">2</a>	37.4 7	1.92	+	1.91E- 07	6.36 E-05
	<a href="#">renal system development</a>	<a href="#">308</a>	<a href="#">2</a> <a href="#">1</a>	6.69	3.14	+	8.49E- 06	1.66 E-03

↳ <a href="#">system development</a>	<a href="#">3838</a>	<a href="#">1</a> <a href="#">4</a> <a href="#">1</a>	83.3 3	1.69	+	9.63E- 11	1.01 E-07
↳ <a href="#">urogenital system development</a>	<a href="#">350</a>	<a href="#">2</a> <a href="#">4</a> <a href="#">4</a>	7.60	3.16	+	1.77E- 06	4.40 E-04
↳ <a href="#">nephron epithelium development</a>	<a href="#">106</a>	<a href="#">1</a> <a href="#">0</a> <a href="#">0</a>	2.30	4.35	+	1.86E- 04	1.88 E-02
↳ <a href="#">kidney epithelium development</a>	<a href="#">137</a>	<a href="#">1</a> <a href="#">1</a> <a href="#">1</a>	2.97	3.70	+	3.32E- 04	2.80 E-02
↳ <a href="#">kidney development</a>	<a href="#">299</a>	<a href="#">2</a> <a href="#">1</a> <a href="#">1</a>	6.49	3.24	+	5.55E- 06	1.19 E-03
↳ <a href="#">animal organ development</a>	<a href="#">3254</a>	<a href="#">1</a> <a href="#">1</a> <a href="#">6</a>	70.6 5	1.64	+	6.91E- 08	2.71 E-05
↳ <a href="#">nephron development</a>	<a href="#">135</a>	<a href="#">1</a> <a href="#">2</a> <a href="#">2</a>	2.93	4.09	+	7.38E- 05	9.11 E-03
<a href="#">negative regulation of cytokine-mediated signaling pathway</a>	<a href="#">75</a>	<a href="#">8</a> <a href="#">8</a> <a href="#">8</a>	1.63	4.91	+	3.83E- 04	3.16 E-02
↳ <a href="#">negative regulation of response to cytokine stimulus</a>	<a href="#">79</a>	<a href="#">8</a> <a href="#">8</a> <a href="#">8</a>	1.72	4.66	+	5.26E- 04	4.11 E-02
<a href="#">transport across blood-brain barrier</a>	<a href="#">86</a>	<a href="#">9</a> <a href="#">9</a> <a href="#">9</a>	1.87	4.82	+	1.91E- 04	1.89 E-02
↳ <a href="#">vascular transport</a>	<a href="#">86</a>	<a href="#">9</a> <a href="#">9</a> <a href="#">9</a>	1.87	4.82	+	1.91E- 04	1.90 E-02
↳ <a href="#">vascular process in circulatory system</a>	<a href="#">267</a>	<a href="#">1</a> <a href="#">7</a> <a href="#">7</a>	5.80	2.93	+	1.33E- 04	1.45 E-02
↳ <a href="#">circulatory system process</a>	<a href="#">498</a>	<a href="#">2</a> <a href="#">4</a> <a href="#">4</a>	10.8 1	2.22	+	5.14E- 04	4.03 E-02
<a href="#">inner ear morphogenesis</a>	<a href="#">109</a>	<a href="#">1</a> <a href="#">1</a> <a href="#">1</a>	2.37	4.65	+	5.12E- 05	6.75 E-03
↳ <a href="#">ear morphogenesis</a>	<a href="#">130</a>	<a href="#">1</a> <a href="#">3</a> <a href="#">3</a>	2.82	4.61	+	1.18E- 05	2.19 E-03
↳ <a href="#">ear development</a>	<a href="#">232</a>	<a href="#">1</a> <a href="#">7</a> <a href="#">7</a>	5.04	3.38	+	2.61E- 05	4.05 E-03
↳ <a href="#">sensory organ development</a>	<a href="#">582</a>	<a href="#">3</a> <a href="#">2</a> <a href="#">2</a>	12.6 4	2.53	+	4.80E- 06	1.07 E-03
↳ <a href="#">sensory organ morphogenesis</a>	<a href="#">279</a>	<a href="#">2</a> <a href="#">3</a> <a href="#">3</a>	6.06	3.80	+	1.48E- 07	5.28 E-05
↳ <a href="#">animal organ morphogenesis</a>	<a href="#">1003</a>	<a href="#">4</a> <a href="#">6</a> <a href="#">6</a>	21.7 8	2.11	+	4.29E- 06	9.75 E-04
↳ <a href="#">anatomical structure morphogenesis</a>	<a href="#">2237</a>	<a href="#">9</a> <a href="#">4</a> <a href="#">4</a>	48.5 7	1.94	+	9.69E- 10	6.33 E-07

<a href="#">↳embryonic organ morphogenesis</a>	<a href="#">301</a>	<a href="#">1 8</a>	6.53	2.75	+	1.78E-04	1.81E-02
<a href="#">↳embryonic organ development</a>	<a href="#">454</a>	<a href="#">2 4</a>	9.86	2.43	+	1.30E-04	1.43E-02
<a href="#">↳embryo development</a>	<a href="#">1059</a>	<a href="#">4 5</a>	22.99	1.96	+	3.48E-05	5.20E-03
<a href="#">↳embryonic morphogenesis</a>	<a href="#">591</a>	<a href="#">3 2</a>	12.83	2.49	+	5.67E-06	1.20E-03
<a href="#">↳inner ear development</a>	<a href="#">204</a>	<a href="#">1 4</a>	4.43	3.16	+	2.51E-04	2.32E-02
<a href="#">integrin-mediated signaling pathway</a>	<a href="#">101</a>	<a href="#">1 0</a>	2.19	4.56	+	1.29E-04	1.44E-02
<a href="#">response to retinoic acid</a>	<a href="#">113</a>	<a href="#">1 0</a>	2.45	4.08	+	3.00E-04	2.66E-02
<a href="#">actomyosin structure organization</a>	<a href="#">114</a>	<a href="#">1 0</a>	2.48	4.04	+	3.21E-04	2.79E-02
<a href="#">↳actin cytoskeleton organization</a>	<a href="#">549</a>	<a href="#">3 0</a>	11.92	2.52	+	1.08E-05	2.06E-03
<a href="#">↳actin filament-based process</a>	<a href="#">611</a>	<a href="#">3 3</a>	13.27	2.49	+	4.07E-06	9.38E-04
<a href="#">eye morphogenesis</a>	<a href="#">160</a>	<a href="#">1 2</a>	3.47	3.45	+	3.24E-04	2.79E-02
<a href="#">homophilic cell adhesion via plasma membrane adhesion molecules</a>	<a href="#">170</a>	<a href="#">1 2</a>	3.69	3.25	+	5.39E-04	4.17E-02
<a href="#">↳cell-cell adhesion</a>	<a href="#">543</a>	<a href="#">3 4</a>	11.79	2.88	+	9.55E-08	3.48E-05
<a href="#">mesenchymal cell differentiation</a>	<a href="#">171</a>	<a href="#">1 2</a>	3.71	3.23	+	5.66E-04	4.27E-02
<a href="#">↳cell differentiation</a>	<a href="#">3519</a>	<a href="#">1 1 9</a>	76.40	1.56	+	6.82E-07	1.91E-04
<a href="#">↳cellular developmental process</a>	<a href="#">3542</a>	<a href="#">1 1 9</a>	76.90	1.55	+	1.01E-06	2.69E-04
<a href="#">↳mesenchyme development</a>	<a href="#">239</a>	<a href="#">1 7</a>	5.19	3.28	+	3.70E-05	5.38E-03
<a href="#">negative regulation of cell migration</a>	<a href="#">288</a>	<a href="#">1 7</a>	6.25	2.72	+	3.08E-04	2.72E-02
<a href="#">↳negative regulation of cell motility</a>	<a href="#">303</a>	<a href="#">1 9</a>	6.58	2.89	+	6.59E-05	8.20E-03
<a href="#">↳negative regulation of locomotion</a>	<a href="#">339</a>	<a href="#">2 2</a>	7.36	2.99	+	1.08E-05	2.04E-03

<a href="#">↳regulation of locomotion</a>	<a href="#">1034</a>	<a href="#">5</a> <a href="#">5</a>	22.4 5	2.45	+	3.30E-09	1.85E-06
<a href="#">↳regulation of cell motility</a>	<a href="#">989</a>	<a href="#">5</a> <a href="#">4</a>	21.4 7	2.51	+	1.50E-09	9.06E-07
<a href="#">↳regulation of cell migration</a>	<a href="#">929</a>	<a href="#">5</a> <a href="#">3</a>	20.1 7	2.63	+	4.69E-10	3.87E-07
<a href="#">positive regulation of nervous system development</a>	<a href="#">279</a>	<a href="#">1</a> <a href="#">6</a>	6.06	2.64	+	6.18E-04	4.57E-02
<a href="#">↳positive regulation of developmental process</a>	<a href="#">1339</a>	<a href="#">5</a> <a href="#">3</a>	29.0 7	1.82	+	4.33E-05	5.95E-03
<a href="#">↳regulation of nervous system development</a>	<a href="#">452</a>	<a href="#">2</a> <a href="#">5</a>	9.81	2.55	+	3.56E-05	5.22E-03
<a href="#">↳regulation of multicellular organismal development</a>	<a href="#">1383</a>	<a href="#">5</a> <a href="#">8</a>	30.0 3	1.93	+	2.60E-06	6.27E-04
<a href="#">regulation of cell morphogenesis</a>	<a href="#">314</a>	<a href="#">1</a> <a href="#">8</a>	6.82	2.64	+	2.90E-04	2.63E-02
<a href="#">regulation of ERK1 and ERK2 cascade</a>	<a href="#">303</a>	<a href="#">1</a> <a href="#">7</a>	6.58	2.58	+	5.34E-04	4.14E-02
<a href="#">cell morphogenesis involved in neuron differentiation</a>	<a href="#">440</a>	<a href="#">2</a> <a href="#">3</a>	9.55	2.41	+	2.04E-04	1.99E-02
<a href="#">↳cell development</a>	<a href="#">1725</a>	<a href="#">6</a> <a href="#">0</a>	37.4 5	1.60	+	3.98E-04	3.22E-02
<a href="#">↳cell morphogenesis</a>	<a href="#">713</a>	<a href="#">3</a> <a href="#">4</a>	15.4 8	2.20	+	4.08E-05	5.82E-03
<a href="#">↳neuron development</a>	<a href="#">843</a>	<a href="#">3</a> <a href="#">7</a>	18.3 0	2.02	+	9.96E-05	1.15E-02
<a href="#">↳neuron differentiation</a>	<a href="#">1065</a>	<a href="#">4</a> <a href="#">1</a>	23.1 2	1.77	+	5.40E-04	4.15E-02
<a href="#">↳generation of neurons</a>	<a href="#">1134</a>	<a href="#">4</a> <a href="#">5</a>	24.6 2	1.83	+	1.53E-04	1.61E-02
<a href="#">↳neurogenesis</a>	<a href="#">1290</a>	<a href="#">5</a> <a href="#">1</a>	28.0 1	1.82	+	5.13E-05	6.71E-03
<a href="#">↳nervous system development</a>	<a href="#">2191</a>	<a href="#">8</a> <a href="#">8</a>	47.5 7	1.85	+	3.10E-08	1.35E-05
<a href="#">muscle structure development</a>	<a href="#">499</a>	<a href="#">2</a> <a href="#">6</a>	10.8 3	2.40	+	7.52E-05	9.14E-03
<a href="#">regulation of neuron projection development</a>	<a href="#">445</a>	<a href="#">2</a> <a href="#">3</a>	9.66	2.38	+	2.27E-04	2.18E-02
<a href="#">↳regulation of plasma membrane bounded cell projection organization</a>	<a href="#">640</a>	<a href="#">3</a> <a href="#">0</a>	13.8 9	2.16	+	1.68E-04	1.74E-02
<a href="#">↳regulation of cell projection organization</a>	<a href="#">656</a>	<a href="#">3</a> <a href="#">0</a>	14.2 4	2.11	+	2.10E-04	2.03E-02

<a href="#">blood vessel development</a>	<a href="#">510</a>	<a href="#">2</a> <a href="#">6</a>	11.0 7	2.35	+	9.86E-05	1.14 E-02
↳ <a href="#">vasculature development</a>	<a href="#">532</a>	<a href="#">2</a> <a href="#">7</a>	11.5 5	2.34	+	7.62E-05	9.12 E-03
↳ <a href="#">circulatory system development</a>	<a href="#">909</a>	<a href="#">4</a> <a href="#">2</a>	19.7 3	2.13	+	8.19E-06	1.62 E-03
<a href="#">neuron projection morphogenesis</a>	<a href="#">479</a>	<a href="#">2</a> <a href="#">4</a>	10.4 0	2.31	+	2.31E-04	2.18 E-02
↳ <a href="#">plasma membrane bounded cell projection morphogenesis</a>	<a href="#">484</a>	<a href="#">2</a> <a href="#">4</a>	10.5 1	2.28	+	2.62E-04	2.39 E-02
↳ <a href="#">cell projection morphogenesis</a>	<a href="#">489</a>	<a href="#">2</a> <a href="#">5</a>	10.6 2	2.35	+	1.31E-04	1.44 E-02
↳ <a href="#">cell part morphogenesis</a>	<a href="#">508</a>	<a href="#">2</a> <a href="#">5</a>	11.0 3	2.27	+	3.24E-04	2.77 E-02
↳ <a href="#">cellular component morphogenesis</a>	<a href="#">604</a>	<a href="#">3</a> <a href="#">1</a>	13.1 1	2.36	+	1.79E-05	3.09 E-03
<a href="#">positive regulation of cell migration</a>	<a href="#">532</a>	<a href="#">2</a> <a href="#">6</a>	11.5 5	2.25	+	2.42E-04	2.27 E-02
↳ <a href="#">positive regulation of cell motility</a>	<a href="#">558</a>	<a href="#">2</a> <a href="#">6</a>	12.1 1	2.15	+	3.87E-04	3.16 E-02
↳ <a href="#">positive regulation of locomotion</a>	<a href="#">574</a>	<a href="#">2</a> <a href="#">7</a>	12.4 6	2.17	+	2.61E-04	2.39 E-02
<a href="#">negative regulation of multicellular organismal process</a>	<a href="#">1039</a>	<a href="#">5</a> <a href="#">0</a>	22.5 6	2.22	+	3.67E-07	1.13 E-04
<a href="#">tissue morphogenesis</a>	<a href="#">568</a>	<a href="#">2</a> <a href="#">7</a>	12.3 3	2.19	+	2.31E-04	2.19 E-02
<a href="#">tube morphogenesis</a>	<a href="#">673</a>	<a href="#">3</a> <a href="#">1</a>	14.6 1	2.12	+	1.45E-04	1.56 E-02
<a href="#">anatomical structure formation involved in morphogenesis</a>	<a href="#">941</a>	<a href="#">4</a> <a href="#">3</a>	20.4 3	2.10	+	7.45E-06	1.50 E-03
<a href="#">negative regulation of cell population proliferation</a>	<a href="#">713</a>	<a href="#">3</a> <a href="#">1</a>	15.4 8	2.00	+	3.85E-04	3.16 E-02
↳ <a href="#">regulation of cell population proliferation</a>	<a href="#">1674</a>	<a href="#">6</a> <a href="#">8</a>	36.3 4	1.87	+	8.97E-07	2.43 E-04
<a href="#">positive regulation of cell differentiation</a>	<a href="#">884</a>	<a href="#">3</a> <a href="#">8</a>	19.1 9	1.98	+	9.61E-05	1.12 E-02
↳ <a href="#">regulation of cell differentiation</a>	<a href="#">1581</a>	<a href="#">6</a> <a href="#">4</a>	34.3 2	1.86	+	2.70E-06	6.41 E-04
<a href="#">central nervous system development</a>	<a href="#">1034</a>	<a href="#">4</a> <a href="#">3</a>	22.4 5	1.92	+	7.54E-05	9.10 E-03
<a href="#">cell-cell signaling</a>	<a href="#">1083</a>	<a href="#">4</a> <a href="#">3</a>	23.5 1	1.83	+	2.56E-04	2.36 E-02

<a href="#">regulation of apoptotic process</a>	<a href="#">1468</a>	<a href="#">5</a> <a href="#">4</a>	31.8 7	1.69	+	2.00E-04	1.98 E-02
↳ <a href="#">regulation of programmed cell death</a>	<a href="#">1498</a>	<a href="#">5</a> <a href="#">4</a>	32.5 2	1.66	+	3.30E-04	2.81 E-02
<a href="#">regulation of localization</a>	<a href="#">2104</a>	<a href="#">7</a> <a href="#">0</a>	45.6 8	1.53	+	3.89E-04	3.16 E-02
<a href="#">regulation of molecular function</a>	<a href="#">3094</a>	<a href="#">1</a> <a href="#">0</a> <a href="#">2</a>	67.1 7	1.52	+	1.80E-05	3.04 E-03
<a href="#">cell cycle</a>	<a href="#">1249</a>	<a href="#">1</a> <a href="#">1</a>	27.1 2	.41	-	5.72E-04	4.29 E-02
Unclassified	<a href="#">2725</a>	<a href="#">2</a> <a href="#">2</a>	59.1 6	.37	-	1.41E-08	6.33 E-06
<a href="#">RNA processing</a>	<a href="#">868</a>	<a href="#">4</a>	18.8 4	.21	-	6.26E-05	7.85 E-03
↳ <a href="#">gene expression</a>	<a href="#">2314</a>	<a href="#">2</a> <a href="#">2</a>	50.2 4	.44	-	5.95E-06	1.24 E-03
↳ <a href="#">RNA metabolic process</a>	<a href="#">1635</a>	<a href="#">1</a> <a href="#">5</a>	35.5 0	.42	-	1.17E-04	1.32 E-02
↳ <a href="#">nucleic acid metabolic process</a>	<a href="#">2276</a>	<a href="#">2</a> <a href="#">3</a>	49.4 1	.47	-	2.19E-05	3.57 E-03
↳ <a href="#">nucleobase-containing compound metabolic process</a>	<a href="#">2825</a>	<a href="#">3</a> <a href="#">4</a>	61.3 3	.55	-	8.65E-05	1.02 E-02
↳ <a href="#">organic cyclic compound metabolic process</a>	<a href="#">3292</a>	<a href="#">4</a> <a href="#">1</a>	71.4 7	.57	-	4.51E-05	6.09 E-03
↳ <a href="#">heterocycle metabolic process</a>	<a href="#">2999</a>	<a href="#">3</a> <a href="#">5</a>	65.1 1	.54	-	2.22E-05	3.59 E-03
↳ <a href="#">cellular aromatic compound metabolic process</a>	<a href="#">3050</a>	<a href="#">3</a> <a href="#">7</a>	66.2 2	.56	-	4.66E-05	6.20 E-03
↳ <a href="#">cellular nitrogen compound metabolic process</a>	<a href="#">3573</a>	<a href="#">4</a> <a href="#">4</a>	77.5 7	.57	-	1.13E-05	2.11 E-03
<a href="#">ncRNA metabolic process</a>	<a href="#">536</a>	<a href="#">1</a>	11.6 4	.09	-	2.02E-04	1.98 E-02
<a href="#">detection of chemical stimulus involved in sensory perception of smell</a>	<a href="#">443</a>	<a href="#">0</a>	9.62	< 0.01	-	1.50E-04	1.59 E-02
↳ <a href="#">detection of chemical stimulus involved in sensory perception</a>	<a href="#">489</a>	<a href="#">0</a>	10.6 2	< 0.01	-	4.37E-05	5.96 E-03
↳ <a href="#">detection of chemical stimulus</a>	<a href="#">526</a>	<a href="#">0</a>	11.4 2	< 0.01	-	1.99E-05	3.32 E-03
↳ <a href="#">sensory perception of chemical stimulus</a>	<a href="#">551</a>	<a href="#">1</a>	11.9 6	.08	-	1.38E-04	1.49 E-02