

	Gene Set Category	Pathway	Set Size	%Up	Ntk Stat	Ntk q-value	Ntk Rank	NEK* Stat	NEK* q-value	NEK* Rank
1	KEGG:04512	ECM-receptor interaction	47	19	-6.19	<0.0001	3	-3.86	<0.0001	1
2	GO:0005604	basement membrane	23	9	-5.49	<0.0001	5	-3.71	<0.0001	2
3	KEGG:04510	Focal adhesion	135	30	-5.34	<0.0001	6	-3.37	<0.0001	8
4	GO:0005201	extracellular matrix structural constituent	40	18	-7.63	<0.0001	1	-3.04	<0.0001	20
5	GO:0004857	enzyme inhibitor activity	128	28	-3.37	<0.0001	19	-3.61	<0.0001	3
6	KEGG:01430	Cell Communication	53	23	-5.05	<0.0001	7	-2.95	<0.0001	24
7	GO:0016126	sterol biosynthesis	22	27	-3.86	<0.0001	11	-2.76	<0.0001	31
8	GO:0005605	basal lamina	14	7	-4.06	<0.0001	10	-2.6	<0.0001	38
9	GO:0007265	Ras protein signal transduction	29	34	-3.01	<0.0001	33	-3.1	<0.0001	15
10	GO:0001817	regulation of cytokine production	16	50	2.93	<0.0001	39	3.14	<0.0001	13
11	GO:0042035	regulation of cytokine biosynthesis	16	50	2.93	<0.0001	39	3.14	<0.0001	13
12	GO:0009064	glutamine family amino acid metabolism	23	65	2.85	<0.0001	48	3.16	<0.0001	12
13	KEGG:00220	Urea cycle and metabolism of amino groups	18	72	2.89	<0.0001	44	3.05	<0.0001	17
14	KEGG:00330	Arginine and proline metabolism	38	66	2.86	<0.0001	46	3.08	<0.0001	16
15	GO:0007588	Excretion	16	63	3.3	<0.0001	22	2.5	<0.0001	44
16	GO:0050954	sensory perception of mechanical stimulus	39	31	-2.45	<0.0001	74	-3.45	<0.0001	7
17	GO:0007605	sensory perception of sound	39	31	-2.45	<0.0001	74	-3.45	<0.0001	7
18	GO:0042089	cytokine biosynthesis	17	47	2.57	<0.0001	62	2.97	<0.0001	22
19	GO:0043062	extracellular structure organization and biogenesis	11	9	-4.67	<0.0001	8	-2.33	0.2305	81
20	GO:0030198	extracellular matrix organization and biogenesis	11	9	-4.67	<0.0001	8	-2.33	0.2305	81
21	GO:0007059	chromosome segregation	25	12	-4.51	<0.0001	9	-2.33	0.2305	81
22	GO:0006937	regulation of muscle contraction	17	24	-3.62	<0.0001	14	-2.33	0.2305	81
23	KEGG:04060	Cytokine-cytokine receptor interaction	79	30	-3.34	<0.0001	21	-2.33	0.2305	81
24	GO:0005578	extracellular matrix (sensu Metazoa)	102	21	-6.55	<0.0001	2	-2.32	0.2267	105
25	GO:0031012	extracellular matrix	102	21	-6.55	<0.0001	2	-2.32	0.2286	105
26	GO:0005581	Collagen	15	13	-5.69	<0.0001	4	-2.21	0.2211	108
27	GO:0043161	proteasomal ubiquitin-dependent protein catabolism	11	18	-2.33	0.1457	108.5	-3.6	<0.0001	4
28	GO:0042087	cell-mediated immune response	11	45	2.33	0.1457	108.5	3.49	<0.0001	5
29	GO:0042088	T-helper 1 type immune response	11	45	2.33	0.1457	108.5	3.49	<0.0001	5
30	BioCarta	ALK in cardiac myocytes	14	21	-2.33	0.1457	108.5	-3.48	<0.0001	6
31	GO:0005544	calcium-dependent phospholipid binding	15	27	-2.33	0.1457	108.5	-3.32	<0.0001	10
32	GO:0016066	cellular defense response (sensu Vertebrata)	12	42	2.33	0.1457	108.5	3.13	<0.0001	14
33	humanpaths	Extracellular Matrix / Adhesion Molecules	52	19	-3.83	<0.0001	12	-2.13	0.2141	112
34	GO:0001501	skeletal development	47	26	-2.33	0.1457	108.5	-3.04	<0.0001	18

35	KEGG:05060	Prion disease	13	23	-2.27	0.1413	142	-3.04	<0.0001	19
36	GO:0006631	fatty acid metabolism	80	51	3.47	<0.0001	16	2.05	0.303	146.5
37	KEGG:00400	Phenylalanine, tyrosine and tryptophan biosynthesis	10	90	3.47	<0.0001	15	1.88	0.3678	182
38	BioCarta	CARM1 and Regulation of the Estrogen Receptor	15	20	-1.75	0.3009	252	-3.18	<0.0001	11
39	GO:0051248	negative regulation of protein metabolism	32	50	1.64	0.3024	312.5	3.36	<0.0001	9
40	GO:0006817	phosphate transport	30	33	-3.79	<0.0001	13	-1.41	0.5619	325
41	GO:0000077	DNA damage checkpoint	11	36	-1.34	0.4145	425.5	-3.03	<0.0001	21
42	KEGG:03010	Ribosome	33	21	-3.45	<0.0001	17	-0.88	0.7405	607.5
43	GO:0005764	Lysosome	68	57	3.42	<0.0001	18	0.71	0.7808	723.5
44	GO:0000323	lytic vacuole	68	57	3.42	<0.0001	18	0.71	0.7808	723.5
45	GO:0005773	Vacuole	82	57	3.35	<0.0001	20	0.71	0.7808	723.5