

Table S5. The top 20 results of high-risk group analyzed by KEGG.

	GS follow link to MSigDB	GS DETAILS	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
1	<a href="#">KEGG PARKINSONS DISEASE</a>	<a href="#">Details ...</a>	127	- 0.64	-1.9	0.012	0.353	0.108	12522	tags=68%, list=23%, signal=87%
2	<a href="#">KEGG OXIDATIVE PHOSPHORYLATION</a>	<a href="#">Details ...</a>	131	- 0.63	- 1.86	0.014	0.269	0.146	12522	tags=66%, list=23%, signal=86%
3	<a href="#">KEGG ALZHEIMERS DISEASE</a>	<a href="#">Details ...</a>	165	- 0.58	- 1.85	0.008	0.201	0.158	12044	tags=53%, list=22%, signal=67%
4	<a href="#">KEGG PEROXISOME</a>	<a href="#">Details ...</a>	78	- 0.59	- 1.81	0.008	0.215	0.19	12401	tags=60%, list=22%, signal=78%
5	<a href="#">KEGG ANTIGEN PROCESSING AND PRESENTATION</a>	<a href="#">Details ...</a>	81	- 0.62	- 1.77	0.041	0.249	0.227	8404	tags=47%, list=15%, signal=55%

6	<a href="#">KEGG TYROSINE METABOLISM</a>	<a href="#">Details ...</a>	42	- 0.54	- 1.77	0.008	0.22	0.235	13348	tags=45%, list=24%, signal=60%
7	<a href="#">KEGG HUNTINGTONS DISEASE</a>	<a href="#">Details ...</a>	180	- 0.56	- 1.73	0.022	0.257	0.288	19813	tags=76%, list=36%, signal=117%
8	<a href="#">KEGG CYTOSOLIC DNA SENSING PATHWAY</a>	<a href="#">Details ...</a>	54	- 0.55	- 1.73	0.017	0.239	0.299	14740	tags=50%, list=27%, signal=68%
9	<a href="#">KEGG SELENOAMINO ACID METABOLISM</a>	<a href="#">Details ...</a>	25	- 0.64	- 1.72	0.006	0.231	0.311	12798	tags=60%, list=23%, signal=78%
10	<a href="#">KEGG FATTY ACID METABOLISM</a>	<a href="#">Details ...</a>	42	- 0.56	- 1.71	0.022	0.218	0.315	17130	tags=60%, list=31%, signal=86%
11	<a href="#">KEGG CARDIAC MUSCLE CONTRACTION</a>	<a href="#">Details ...</a>	78	-0.5	- 1.66	0.025	0.297	0.391	7208	tags=31%, list=13%, signal=35%
12	<a href="#">KEGG AMINOACYL TRNA BIOSYNTHESIS</a>	<a href="#">Details ...</a>	22	- 0.69	- 1.66	0.028	0.282	0.397	14571	tags=82%, list=26%, signal=111%
13	<a href="#">KEGG GLYCEROLIPID METABOLISM</a>	<a href="#">Details ...</a>	49	- 0.49	- 1.64	0.014	0.29	0.416	7875	tags=33%, list=14%, signal=38%

14	<a href="#">KEGG GLYCEROPHOSPHOLIPID METABOLISM</a>	<a href="#">Details ...</a>	77	- 0.48	- 1.63	0.018	0.293	0.435	9299	tags=39%, list=17%, signal=47%
15	<a href="#">KEGG BASE EXCISION REPAIR</a>	<a href="#">Details ...</a>	35	- 0.62	- 1.63	0.047	0.286	0.449	17759	tags=83%, list=32%, signal=122%
16	<a href="#">KEGG RNA DEGRADATION</a>	<a href="#">Details ...</a>	59	- 0.61	- 1.62	0.026	0.275	0.455	14398	tags=71%, list=26%, signal=96%
17	<a href="#">KEGG SPLICEOSOME</a>	<a href="#">Details ...</a>	127	- 0.63	- 1.61	0.044	0.279	0.472	15696	tags=79%, list=28%, signal=110%
18	<a href="#">KEGG HISTIDINE METABOLISM</a>	<a href="#">Details ...</a>	29	- 0.51	-1.6	0.024	0.283	0.485	11597	tags=38%, list=21%, signal=48%
19	<a href="#">KEGG RIG I LIKE RECEPTOR SIGNALING PATHWAY</a>	<a href="#">Details ...</a>	70	-0.5	- 1.59	0.052	0.287	0.5	22460	tags=69%, list=41%, signal=115%
20	<a href="#">KEGG SNARE INTERACTIONS IN VESICULAR TRANSPORT</a>	<a href="#">Details ...</a>	38	- 0.58	- 1.58	0.059	0.284	0.509	19450	tags=79%, list=35%, signal=122%