

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

NAME	SIZE	HD_ES	HD_NES	HD_NOM_p-val	HD_FDR_q-val	HD_FWFR_p-val	HD_RANK_AT_MAX	HD.LEADING_EDGE	Control_ES	Control_NES	Control_NOM_p-val	Control_FDR_q-val	Control_FWFR_p-val	Control_RANK_AT_MAX	Control.LEADING_EDGE
GSE15750_DAY6_VS_DAY10_EFF_CD8	182	0.601966	1.99195	0	0.00219134	0.002	2490	tags=43%, list=16%, signal=51%	0.640164	2.14399	0	0	0	0	2659 tags=51%, list=17%, signal=61%
GSE10325_LUPUS_BCELL_VS_LUPUS	173	0.564383	1.88885	0	0.0173238	0.032	2597	tags=42%, list=16%, signal=50%	-0.306419	-1.18053	0.0944444	0.445627	1	2971 tags=35%, list=19%, signal=43%	
GSE34205_HEALTHY_VS_RSV_INF_INI	170	0.554122	1.86431	0	0.0227743	0.063	1927	tags=35%, list=12%, signal=3%	0.456606	1.52546	0.00125471	0.114593	1	2639 tags=35%, list=16%, signal=41%	
GSE15750_DAY6_VS_DAY10_TRAF6K	181	0.559493	1.86376	0	0.0173465	0.064	1995	tags=36%, list=12%, signal=41%	0.656232	2.21221	0	0	0	0	2666 tags=54%, list=17%, signal=64%
GSE24634_IL4_VS_CTRL_TREATED_NU	178	0.560975	1.86279	0	0.0138772	0.064	2468	tags=37%, list=15%, signal=43%	0.551094	1.85092	0	0.0055607	0.083	2949 tags=42%, list=18%, signal=50%	
GSE29614_CTRL_VS_DAY7_TIV_FLU_`	162	0.5622	1.85426	0	0.0133765	0.074	2658	tags=43%, list=17%, signal=51%	0.635253	2.12418	0	0	0	0	2558 tags=44%, list=16%, signal=52%
GSE6261_HEALTHY_VS_STREP_PNEU	145	0.567286	1.84063	0	0.0153444	0.097	2961	tags=43%, list=18%, signal=53%	0.348713	1.15706	0.167979	0.485436	1	2881 tags=30%, list=18%, signal=37%	
GSE11057_PBMC_VS_MEM_CD4_TCE	163	0.545033	1.80889	0	0.0245228	0.166	2804	tags=42%, list=17%, signal=51%	0.304034	1.02065	0.405978	0.709703	1	1063 tags=15%, list=7%, signal=16%	
CONTRACTILE_FIBER_PART	21	0.746483	1.80565	0	0.0220408	0.167	728	tags=29%, list=5%, signal=30%	0.579175	1.42122	0.0657051	0.170831	1	2730 tags=38%, list=17%, signal=46%	
GSE30962_PRIMARY_VS_SECONDARY	183	0.542112	1.80083	0	0.021252	0.176	3521	tags=49%, list=22%, signal=62%	0.596034	2.01805	0	0.000326046	0.003	1740 tags=36%, list=11%, signal=40%	
GSE11057_NAIVE_CD4_VS_PBMC_CD	171	0.542632	1.79168	0	0.0231642	0.208	3046	tags=44%, list=19%, signal=54%	0.403861	1.36996	0.0164766	0.215503	1	2704 tags=33%, list=17%, signal=39%	
GSE12845_IDG_POS_BLOOD_VS_PRE	188	0.527088	1.76745	0	0.0329513	0.304	2634	tags=39%, list=16%, signal=46%	0.549092	1.87034	0	0.00437988	0.057	2888 tags=43%, list=18%, signal=51%	
GSE11057_CD4_CENT_MEM_VS_PBN	164	0.535359	1.76349	0	0.0330813	0.328	2928	tags=38%, list=18%, signal=47%	0.380714	1.28522	0.0335404	0.305387	1	3196 tags=32%, list=20%, signal=39%	
GSE22886_NAIVE_TCELL_VS_MONOC	179	0.527076	1.76339	0	0.0307951	0.328	2945	tags=43%, list=18%, signal=52%	-0.326377	-1.28074	0.0153061	0.351025	1	2917 tags=39%, list=18%, signal=47%	
GSE6269_HEALTHY_VS_STREP_AUREL	146	0.542559	1.76046	0	0.03005	0.342	3518	tags=51%, list=22%, signal=65%	0.336865	1.12175	0.220796	0.534318	1	2891 tags=34%, list=18%, signal=41%	
GSE10325_LUPUS_CD4_TCELL_VS_LU	175	0.526058	1.75557	0	0.0304121	0.368	2945	tags=45%, list=18%, signal=54%	-0.317255	-1.21741	0.0552764	0.406287	1	2453 tags=33%, list=15%, signal=38%	
AMINO_ACID_DERIVATIVE_METABOL	19	0.748914	1.75483	0.00166667	0.0293275	0.375	2109	tags=37%, list=13%, signal=42%	0.328278	0.78239	0.794658	0.967915	1	2131 tags=21%, list=13%, signal=24%	
GOLDRATH_NAIVE_VS_EFF_CD8_TCE	186	0.528893	1.75443	0	0.0279987	0.378	3132	tags=45%, list=20%, signal=55%	0.507428	1.73151	0	0.0319051	0.503	2637 tags=40%, list=16%, signal=48%	
GSE7852_TREG_VS_TCINV_FAT_UP	179	0.522328	1.75251	0	0.0273882	0.388	2650	tags=39%, list=17%, signal=46%	0.290843	0.98108	0.507576	0.76032	1	3007 tags=29%, list=19%, signal=35%	
GSE22886_NAIVE_CD8_TCELL_VS_MC	177	0.520679	1.75234	0	0.0260683	0.389	2945	tags=45%, list=18%, signal=54%	-0.365099	-1.40657	0	0.299677	1	2498 tags=37%, list=16%, signal=44%	
ATPASE_ACTIVITY_COUPLED_TO_TRA	21	0.720069	1.73335	0.00163399	0.0335975	0.483	1710	tags=43%, list=11%, signal=48%	0.537434	1.30088	0.117834	0.283828	1	2829 tags=24%, list=18%, signal=29%	
GSE36476_CTRL_VS_TSST_ACT_40H_I	187	0.515558	1.73144	0	0.0331515	0.491	2655	tags=47%, list=17%, signal=49%	0.694307	2.36703	0	0	0	2571 tags=56%, list=16%, signal=66%	
GSE29618_BCELL_VS_MONOCYTE_DN	178	0.514313	1.71872	0	0.038357	0.564	3069	tags=42%, list=19%, signal=52%	0.248766	0.841804	0.876695	0.913315	1	3288 tags=28%, list=20%, signal=35%	
GSE11057_NAIVE_VS_MEMORY_CD4	172	0.514597	1.71748	0	0.0373471	0.571	2889	tags=38%, list=18%, signal=46%	0.272501	0.915579	0.665823	0.833134	1	3048 tags=28%, list=19%, signal=35%	
GSE10239_NAIVE_VS_DAY4_EFF_CI	184	0.511121	1.71576	0	0.0368092	0.581	2800	tags=35%, list=17%, signal=42%	0.480997	1.63583	0	0.0656569	0.931	3341 tags=41%, list=21%, signal=51%	
GSE36476_CTRL_VS_TSST_ACT_72H_I	185	0.512454	1.71561	0	0.0355191	0.582	2631	tags=43%, list=16%, signal=51%	0.648023	2.19697	0	0	0	2571 tags=52%, list=16%, signal=62%	
GSE11057_CD4_EFF_MEM_VS_PBM	167	0.512493	1.70846	0	0.0384199	0.623	3923	tags=54%, list=24%, signal=71%	0.323911	1.08198	0.276942	0.602138	1	3007 tags=31%, list=19%, signal=38%	
PROTEIN_HOMOOLIGOMERIZATION	18	0.721451	1.70821	0.00834725	0.0372037	0.625	2762	tags=61%, list=17%, signal=74%	0.428611	0.991015	0.461538	0.750454	1	3455 tags=44%, list=22%, signal=57%	
GSE20715_0H_VS_48H_OZONE_LUNC	182	0.509334	1.69976	0	0.0408137	0.673	2439	tags=32%, list=15%, signal=38%	0.47798	1.61011	0	0.0673608	0.981	2600 tags=34%, list=16%, signal=40%	
GSE7852_LN_VS_THYMUS_TCINV_D	178	0.5115	1.69889	0	0.0400032	0.68	2288	tags=31%, list=14%, signal=36%	0.475071	1.60572	0	0.0669937	0.989	3391 tags=42%, list=21%, signal=53%	
GSE22886_NAIVE_CD4_TCELL_VS_MC	179	0.507161	1.69539	0	0.0408419	0.696	2659	tags=40%, list=17%, signal=47%	-0.32101	-1.22881	0.0476191	0.39045	1	2498 tags=35%, list=16%, signal=41%	
GOLDRATH_EFF_CD8_VS_MEMORY_CD8_I	191	0.508766	1.69406	0	0.0403119	0.703	2272	tags=36%, list=14%, signal=41%	0.49984	1.69787	0	0.0437736	0.678	2777 tags=42%, list=17%, signal=50%	
GSE24142_EARLY_THYMIC_PROGENIT	167	0.505909	1.69373	0	0.0392552	0.703	2686	tags=36%, list=17%, signal=43%	0.293974	0.994449	0.480503	0.746685	1	1981 tags=22%, list=12%, signal=24%	
GSE9006_HEALTHY_VS_TYPE_1_DIAB	180	0.51261	1.69246	0	0.0387693	0.711	2074	tags=29%, list=13%, signal=33%	0.381017	1.2881	0.037037	0.305502	1	2275 tags=28%, list=14%, signal=33%	
GSE29614_DAY3_VS_DAY7_TIV_FLU_`	159	0.515094	1.69126	0	0.0382177	0.715	3767	tags=50%, list=23%, signal=65%	0.594584	1.94785	0	0.000803476	0.009	2127 tags=38%, list=13%, signal=44%	
MYOFIBRIL	18	0.724706	1.68808	0.00493421	0.0389366	0.722	728	tags=28%, list=5%, signal=29%	0.485663	1.14255	0.27931	0.50693	1	2730 tags=33%, list=17%, signal=40%	
GSE22886_NAIVE_CD8_TCELL_VS_DC	173	0.509126	1.68666	0	0.0387021	0.728	2631	tags=38%, list=16%, signal=45%	0.356738	1.21275	0.0775095	0.414421	1	2452 tags=23%, list=15%, signal=27%	
ACTIVATION_OF_MAPK_ACTIVITY	39	0.619283	1.68172	0	0.0405305	0.757	3044	tags=41%, list=19%, signal=50%	0.598965	1.99627	0	0.000491801	0.005	2614 tags=48%, list=16%, signal=57%	
GSE36476_CTRL_VS_TSST_ACT_40H_I	189	0.499154	1.67728	0	0.0425289	0.783	1790	tags=26%, list=11%, signal=29%	0.316269	0.861518	0.692771	0.897723	1	2452 tags=23%, list=15%, signal=27%	
POSITIVE_REGULATION_OF_MAP_KIN	45	0.602301	1.67685	0	0.0417638	0.785	3074	tags=41%, list=19%, signal=50%	0.381017	1.2881	0.037037	0.305502	1	2127 tags=38%, list=13%, signal=44%	
GSE29614_CTRL_VS_TV_FLU_VACCIN	141	0.512138	1.67229	0	0.042941	0.807	2497	tags=28%, list=16%, signal=32%	0.562649	1.84663	0	0.00564065	0.089	2915 tags=33%, list=18%, signal=40%	
ATPASE_ACTIVITY_COUPLED_TO_MO	34	0.62528	1.66892	0.00447761	0.0437542	0.821	3340	tags=50%, list=21%, signal=63%	0.352984	0.939653	0.546154	0.79984	1	1007 tags=9%, list=6%, signal=9%	
GSE22886_NAIVE_CD4_TCELL_VS_DC	182	0.50904	1.66762	0	0.0438209	0.828	3101	tags=44%, list=19%, signal=54%	0.372523	1.27135	0.047561	0.326212	1	3940 tags=38%, list=25%, signal=50%	
ANION_CHANNEL_ACTIVITY	17	0.721034	1.66698	0.00658979	0.0430211	0.828	3639	tags=41%, list=23%, signal=53%	0.343019	0.797394	0.757983	0.958312	1	467 tags=6%, list=3%, signal=6%	
GSE3982_MAST_CELL_VS_NKCELL_UF	189	0.502333	1.66688	0	0.042065	0.828	2599	tags=35%, list=16%, signal=41%	0.262125	0.892144	0.750311	0.866827	1	2257 tags=21%, list=14%, signal=24%	
GSE24142_EARLY_THYMIC_PROGENIT	179	0.498064	1.66461	0	0.0424268	0.836	3308	tags=42%, list=21%, signal=52%	0.417823	1.4043	0.00611995	0.188097	1	2952 tags=36%, list=18%, signal=43%	
GSE12366_GC_VS_NAIVE_BCELL_UP	177	0.498444	1.66075	0	0.0435779	0.849	2851	tags=35%, list=18%, signal=42%	0.388991	1.29795	0.0391909	0.290413	1	2892 tags=31%, list=18%, signal=37%	
PRIMARY_ACTIVE_TRANSMEMBRANE	35	0.624415	1.66053	0.0060698	0.0428287	0.851	3340	tags=50%, list=21%, signal=61%	0.384683	0.934341	0.572086	0.805835	1	1007 tags=9%, list=6%, signal=9%	
CONTRACTILE_FIBER	23	0.628914	1.65904	0	0.0426393	0.855	728	tags=26%, list=5%, signal=27%	0.573061	1.43384	0.0375817	0.161264	1	2730 tags=35%, list=17%, signal=42%	
GSE24142_EARLY_THYMIC_PROGENIT	183	0.497876	1.65789	0	0.0425669	0.859	3065	tags=44%, list=19%, signal=53%	0.375381	1.27091	0.0496894	0.326778	1	1899 tags=25%, list=12%, signal=28%	
GSE7852_TREG_VS_TCINV_LN_UP	177	0.499204	1.65629	0	0.042602	0.864	2907	tags=42%, list=18%, signal=50%	0.363969	1.2293	0.0764411	0.385845	1	2588 tags=29%, list=16%, signal=34%	
LEADING_EDGE	42	0.610028	1.65043	0.0030303	0.0445453	0.886	2187	tags=30%, list=14%, signal=35%	0.357624	1.20976	0.0921376	0.41853	1	3433 tags=28%, list=21%, signal=35%	
HYDROLASE_ACTIVITY_ACTING_ON_A	34	0.62528	1.65011	0.00460123	0.0437702	0.886	2077	tags=29%, list=13%, signal=33%	0.491688	1.37281	0.0591806	0.214489	1	3809 tags=43%, list=24%, signal=56%	
GSE7852_LN_VS_FAT_TCINV_DN	181	0.494407	1.64987	0	0.0431119	0.887	3340	tags=50%, list=21%, signal=63%	0.352984	0.955077	0.525038	0.780143	1	1007 tags=9%, list=6%, signal=9%	
GSE3982_MAC_VS_NKCELL_UP	178	0.496811	1.64754	0	0.0437745	0.89	2137	tags=34%, list=13%, signal=38%	0.334419	1.137	0.186076	0.515569	1	3073 tags=30%, list=19%, signal=37%	
GSE29618_BCELL_VS_MONOCYTE_DA	175	0.493964	1.64511	0	0.0445675	0.897	2785	tags=38%, list=17%, signal=46%	0.350246	1.1931	0.115672	0.433801	1	3476 tags=34%, list=22%, signal=43%	
HOMOPHILIC_CELL_ADHESION</															

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GSE29618_PDC_VS_MDC_UP	174	0.470688	1.58335	0	0.0706695	0.996	3425 tags=43%, list=21%, signal=54%	0.380654	1.28577	0.0339394	0.304596	1	1544 tags=24%, list=10%, signal=26%
GSE24412_DN2_VS_DN3_THMOCYT	181	0.474348	1.58272	0	0.0702791	0.996	2472 tags=30%, list=15%, signal=36%	0.387443	1.32141	0.0223602	0.267058	1	3218 tags=35%, list=20%, signal=44%
ATPASE_ACTIVITY_COUPLED_TO_TRA	17	0.486805	1.58232	0.00944882	0.0697391	0.996	1710 tags=35%, list=11%, signal=39%	0.499494	1.1562	0.266453	0.486092	1	1007 tags=12%, list=6%, signal=13%
GSE17974_IL4_AND_ANTI_IL12_VS_U	165	0.480543	1.58037	0	0.0705835	0.997	2650 tags=30%, list=17%, signal=36%	0.268019	-1.01789	0.3854517	0.624379	1	3062 tags=33%, list=19%, signal=41%
CELLULAR_HOMEOSTASIS	131	0.487383	1.57975	0	0.0702323	0.998	2719 tags=24%, list=17%, signal=29%	0.441903	1.46195	0.00128866	0.145423	1	1994 tags=19%, list=12%, signal=22%
BLOOD_COAGULATION	39	0.582862	1.57923	0.00761035	0.069854	0.998	2380 tags=33%, list=15%, signal=39%	0.584471	1.57126	0.00614439	0.0870262	0.998	2088 tags=33%, list=13%, signal=38%
REGULATION_OF_BODY_FLUID_LEVEL	51	0.556031	1.57804	0.00560224	0.0701765	0.998	2380 tags=27%, list=15%, signal=32%	0.596305	1.73777	0	0.0302184	0.464	2396 tags=35%, list=15%, signal=41%
COAGULATION	40	0.582853	1.57665	0.013373	0.0705888	0.998	2380 tags=33%, list=15%, signal=38%	0.584463	1.60671	0.00312012	0.0674207	0.987	2088 tags=33%, list=13%, signal=37%
GSE22886_NAIVE_BCELL_VS_NEUTRC	164	0.478805	1.57593	0	0.0705	0.998	3387 tags=46%, list=21%, signal=57%	-0.24765	-0.949769	0.619048	0.764041	1	2255 tags=26%, list=14%, signal=29%
RESPONSE_TO_CHEMICAL_STIMULUS	275	0.455287	1.57401	0	0.0715587	0.999	2975 tags=24%, list=19%, signal=29%	0.351853	1.23414	0.0458284	0.381281	1	3283 tags=27%, list=20%, signal=33%
GSE24634_TEFF_VS_TCONV_DAY7_IN	177	0.473883	1.57223	0	0.0724126	0.999	3264 tags=43%, list=20%, signal=53%	0.60077	2.04114	0	0.000366802	0.003	3034 tags=50%, list=19%, signal=61%
GSE12366_GC_VS_MEMORY_BCELL_I	171	0.470356	1.56933	0	0.0740373	0.999	2467 tags=32%, list=15%, signal=37%	0.421661	1.40667	0.00650195	0.185318	1	2669 tags=30%, list=17%, signal=36%
HEMOSTASIS	44	0.566267	1.56912	0.00151515	0.0734909	0.999	2380 tags=32%, list=15%, signal=37%	0.602724	1.69129	0.00289017	0.0460781	0.709	2396 tags=39%, list=15%, signal=45%
GSE36476_YOUNG_VS_OLD_DONOR	155	0.476576	1.56624	0	0.071706	0.999	2520 tags=32%, list=16%, signal=38%	0.293907	0.978538	0.516456	0.762839	1	2224 tags=19%, list=14%, signal=22%
CELL_CYCLE_PROCESS	173	0.473199	1.56246	0.00380228	0.0776813	1	2967 tags=36%, list=18%, signal=43%	0.442512	1.4883	0	0.13671	1	2571 tags=36%, list=16%, signal=43%
GSE24412_EARLY_THYMIC_PROGENIT	179	0.468162	1.56171	0	0.0775833	1	2983 tags=36%, list=19%, signal=44%	0.306647	1.04186	0.361568	0.679621	1	1585 tags=18%, list=10%, signal=20%
GSE36476_CTRL_VS_TSST_ACT_72H_I	188	0.467622	1.56059	0.00120048	0.0778012	1	2631 tags=37%, list=16%, signal=43%	0.628819	2.13486	0	0	0	2571 tags=51%, list=16%, signal=60%
REGULATION_OF_BILOGICAL_QUAL	380	0.443827	1.56018	0	0.0773231	1	2804 tags=25%, list=17%, signal=30%	0.407161	1.46317	0	0.144485	1	2572 tags=23%, list=16%, signal=26%
GSE29618_MONOCYTE_VS_MDC_UP	176	0.465733	1.55939	0	0.0771313	1	3064 tags=40%, list=19%, signal=49%	-0.315	-1.22945	0.0410256	0.391136	1	2060 tags=28%, list=13%, signal=32%
GSE22886_NAIVE_CELL_VS_NEUTRC	162	0.473803	1.55623	0	0.0788494	1	2470 tags=32%, list=15%, signal=38%	0.333113	1.12272	0.204715	0.533004	1	3429 tags=27%, list=21%, signal=34%
GSE11057_NAIVE_VS_EFF_MEMORY	176	0.470539	1.55603	0	0.0782018	1	3108 tags=36%, list=19%, signal=44%	-0.246557	-0.958803	0.52459	0.749416	1	2819 tags=29%, list=18%, signal=35%
GSE29618_BCELL_VS_MDC_DN	185	0.462269	1.55597	0.00121212	0.0775024	1	4115 tags=49%, list=26%, signal=65%	0.299321	1.01408	0.425584	0.723044	1	1980 tags=21%, list=12%, signal=24%
GSE20715_0H_VS_24H_OZONE_TLR4	173	0.466933	1.55407	0	0.078421	1	3279 tags=34%, list=20%, signal=42%	0.402134	1.35016	0.0163112	0.240664	1	2984 tags=29%, list=19%, signal=36%
GSE20715_0H_VS_48H_OZONE_TLR4	189	0.463181	1.55537	0	0.0779639	1	3251 tags=34%, list=20%, signal=42%	0.452489	1.51428	0	0.109883	1	2571 tags=31%, list=16%, signal=37%
ICOSANOID_METABOLIC_PROCESS	15	0.683774	1.55336	0.0213816	0.077548	1	2066 tags=33%, list=13%, signal=38%	0.471725	1.04953	0.412052	0.663392	1	2297 tags=33%, list=14%, signal=39%
REGULATION_OF_MAPKK CASCADE	16	0.675349	1.55117	0.0214876	0.0788133	1	2106 tags=31%, list=13%, signal=36%	0.543379	1.23357	0.176895	0.38021	1	3178 tags=38%, list=20%, signal=47%
LOCOMOTOR_BEHAVIOR	85	0.509872	1.55015	0.00263505	0.0789504	1	1645 tags=21%, list=10%, signal=23%	0.436431	1.36726	0.0251046	0.219945	1	3169 tags=31%, list=20%, signal=38%
CALCIUM_ION_BINDING	95	0.502628	1.54948	0	0.0789111	1	2885 tags=28%, list=18%, signal=34%	0.310065	0.965585	0.535099	0.77345	1	3433 tags=26%, list=21%, signal=33%
CELLULAR_CATION_HOMEOSTASIS	92	0.498913	1.54937	0.00267023	0.0782708	1	2719 tags=24%, list=17%, signal=29%	0.478096	1.50326	0.00672043	0.128172	1	1860 tags=21%, list=12%, signal=23%
GSE17721_LPS_VS_GARDIQUINOD	172	0.464065	1.54749	0	0.079383	1	3008 tags=33%, list=19%, signal=40%	0.30861	1.04943	0.36303	0.674613	1	3393 tags=31%, list=21%, signal=39%
CELL_CYCLE_GO_0007049	288	0.445395	1.54644	0	0.0795571	1	2898 tags=34%, list=18%, signal=40%	0.425759	1.50085	0	0.126257	1	2586 tags=32%, list=16%, signal=37%
RHO_PROTEIN_SIGNAL_TRANSDUCTK	34	0.585409	1.54169	0.0198777	0.0833241	1	1368 tags=26%, list=9%, signal=29%	0.54645	1.47611	0.0260337	0.137919	1	2628 tags=32%, list=16%, signal=39%
GSE3982_MAST_CELL_VS_EFF_MEMC	179	0.464518	1.54121	0.00122699	0.0830555	1	3374 tags=41%, list=21%, signal=51%	0.297068	0.996773	0.470303	0.745345	1	2944 tags=31%, list=18%, signal=37%
GSE29618_MONOCYTE_VS_PDC_DN	161	0.467052	1.54011	0.00122249	0.0832994	1	3425 tags=38%, list=21%, signal=48%	0.419647	1.39884	0.00988875	0.194171	1	2739 tags=34%, list=17%, signal=40%
GSE24634_TEFF_VS_TCONV_DAYS_IN	180	0.461146	1.53721	0	0.0854298	1	3647 tags=43%, list=23%, signal=55%	0.500234	1.70389	0	0.0411811	0.649	3034 tags=42%, list=19%, signal=51%
GSE27786_NKTCELL_VS_MONO_MAC	175	0.459984	1.53538	0.00244798	0.0865077	1	3385 tags=33%, list=21%, signal=42%	0.370717	1.24893	0.5068182	0.360761	1	3602 tags=31%, list=22%, signal=40%
CELL_MATRIX_JUNCTION	17	0.667176	1.53385	0.0096463	0.0872017	1	3103 tags=47%, list=19%, signal=58%	0.614894	1.42535	0.0608974	0.167373	1	914 tags=18%, list=6%, signal=19%
STRUCTURAL_CONSTITUENT_OF_MU	31	0.586151	1.53161	0.0170173	0.0887271	1	2609 tags=29%, list=16%, signal=35%	0.380042	1.00121	0.452599	0.741076	1	1320 tags=13%, list=8%, signal=14%
GSE29618_BCELL_VS_PDC_DN	176	0.457632	1.53006	0.00121212	0.0895	1	3480 tags=39%, list=22%, signal=49%	0.389206	1.32648	0.0170316	0.265618	1	2601 tags=31%, list=16%, signal=36%
GSE17974_CTRL_VS_ACT_IL4_AND_A	156	0.465131	1.52818	0.00121507	0.0905141	1	2638 tags=34%, list=16%, signal=40%	-0.251541	-0.957429	0.577114	0.751183	1	2299 tags=20%, list=14%, signal=23%
GSE11057_NAIVE_VS_CENT_MEMOR	170	0.463238	1.52423	0	0.0939462	1	3327 tags=38%, list=21%, signal=47%	0.287222	0.972638	0.519546	0.770551	1	3048 tags=30%, list=19%, signal=37%
CATION_HOMEOSTASIS	94	0.489733	1.52301	0.00390625	0.0944877	1	2719 tags=23%, list=17%, signal=28%	0.486235	1.51673	0.00415512	0.117702	1	1860 tags=21%, list=12%, signal=24%
GSE22886_NAIVE_BCELL_VS_MONOC	177	0.458319	1.52236	0	0.0943871	1	3322 tags=40%, list=21%, signal=50%	-0.286362	-1.10545	0.156566	0.516785	1	2426 tags=32%, list=15%, signal=37%
GSE17721_0H_VS_12H_GARDIQUIN	170	0.461042	1.52189	0	0.094095	1	2830 tags=31%, list=18%, signal=37%	0.327252	1.10383	0.231631	0.555166	1	4114 tags=35%, list=26%, signal=47%
GSE12845_IDG_POS_NEG_BLOOD	166	0.45926	1.51897	0	0.0964649	1	4032 tags=45%, list=25%, signal=61%	0.485664	1.64048	0	0.0663173	0.917	2283 tags=33%, list=14%, signal=38%
CELL_SUBSTRATE_ADHERENS_JUNCT	15	0.676573	1.51808	0.0200669	0.096603	1	3103 tags=47%, list=19%, signal=58%	0.711862	1.60237	0.0217555	0.0671941	0.99	914 tags=20%, list=6%, signal=21%
GSE29618_MONOCYTE_VS_PDC_DAY	181	0.458245	1.51788	0.00120627	0.0960599	1	2623 tags=35%, list=16%, signal=42%	-0.30533	-1.18512	0.5061798	0.442173	1	2054 tags=25%, list=13%, signal=29%
GSE29618_MONOCYTE_VS_MDC_DA'	172	0.458695	1.51706	0.00377358	0.0960528	1	3046 tags=37%, list=19%, signal=45%	-0.293055	-1.12743	0.127551	0.484959	1	2282 tags=28%, list=14%, signal=32%
HOMEOSTATIC_PROCESS	185	0.455016	1.51637	0.00367197	0.0960729	1	3761 tags=31%, list=23%, signal=40%	0.365347	1.23402	0.0658385	0.380211	1	1860 tags=17%, list=12%, signal=19%
GSE13306_RA_VS_UNTREATED_MEM	176	0.457529	1.51542	0	0.0962848	1	2417 tags=30%, list=15%, signal=35%	0.385298	1.29294	0.0418719	0.297289	1	2833 tags=31%, list=18%, signal=37%
RESPONSE_TO_BIOTIC_STIMULUS	100	0.482087	1.51518	0.00404858	0.0958861	1	2289 tags=29%, list=14%, signal=34%	0.501281	1.58166	0	0.0805216	0.997	3240 tags=38%, list=20%, signal=47%
TISSUE_REMODELING	27	0.601895	1.51469	0.024961	0.0955671	1	3497 tags=33%, list=22%, signal=43%	0.385926	0.977156	0.480315	0.763539	1	2984 tags=26%, list=19%, signal=32%
GSE7460_FOXP3_MUT_VS_WT_ACT_	176	0.455097	1.51448	0	0.0950814	1	2204 tags=30%, list=14%, signal=34%	0.292193	0.99145	0.485607	0.750482	1	4140 tags=35%, list=26%, signal=47%
PROTEIN_HETERODIMERIZATION_AC1	71	0.505398	1.51159	0.00972222	0.0976012	1	3737 tags=44%, list=23%, signal=57%	0.41583	1.25038	0.0980114	0.356776	1	1541 tags=20%, list=10%, signal=22%
RUFFLE	29	0.593951	1.51131	0.0219859	0.0972291	1	2077 tags=34%, list=13%, signal=40%	0.469726	1.23287	0.162287	0.381046	1	3809 tags=41%, list=24%, signal=54%
GSE29618_PRE_VS_DAY7_FLU_VACCI	172	0.450385	1.50928	0.00243605	0.0985565	1	3516 tags=36%, list=22%, signal=46%	0.4184	1.41483	0.00126743	0.176207	1	1860 tags=17%, list=11%, signal=26%
GTPase_BINDING	28	0.581404	1.50863	0.0232919	0.0985411	1	3978 tags=43%, list=25%, signal=57%	-0.266506	-1.04029	0.319277	0.602162	1	1818 tags=23%, list=11%, signal=26%
GSE17721_LPS_VS_CPG_1H_BMDM_I	181	0.450402	1.50833	0.00122285	0.0981461	1	3761 tags=29%, list=23%, signal=38%	0.470188	1.54853	0.0123609	0.233446	1	2920 tags=36%, list=18%, signal=44%
REGULATION_OF_MYELOID_CELL_DIFF	17	0.649387	1.										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE9037_WT_VS_IRAK4_KO_LPS_1H	168	0.451599	1.48894	0	0.104019	1	3781 tags=37%, list=24%, signal=48%	0.246839	0.825891	0.873724	0.930001	1	3073 tags=20%, list=19%, signal=24%
GSE24634_TREG_VS_TCONV_POST_D	179	0.449486	1.48839	0	0.103979	1	2055 tags=27%, list=13%, signal=31%	0.287073	0.970165	0.535802	0.77331	1	2998 tags=30%, list=19%, signal=36%
GSE3982_MAC_VS_EFF_MEMORY_CC	177	0.447717	1.48745	0	0.104662	1	2634 tags=33%, list=16%, signal=39%	0.321538	1.08996	0.257463	0.582453	1	3221 tags=29%, list=20%, signal=36%
REGULATION_OF_KINASE_ACTIVITY	145	0.456397	1.48732	0.00248447	0.104146	1	1790 tags=23%, list=11%, signal=25%	0.310602	1.03438	0.381378	0.692042	1	2586 tags=24%, list=16%, signal=29%
GSE11924_FTH_VS_TH2_CD4_TCELL_	173	0.444548	1.48724	0.00251572	0.103597	1	2853 tags=25%, list=18%, signal=31%	0.334403	1.12554	0.204715	0.536154	1	2910 tags=24%, list=18%, signal=29%
GSE3982_ESINOPHIL_VS_TH1_UP	170	0.448485	1.48671	0.00121951	0.10362	1	3316 tags=37%, list=21%, signal=46%	0.261958	0.885256	0.77182	0.874346	1	2271 tags=19%, list=14%, signal=22%
RESPONSE_TO_BACTERIUM	26	0.596778	1.48464	0.035061	0.105456	1	3590 tags=46%, list=22%, signal=59%	0.511155	1.28501	0.121166	0.305199	1	1968 tags=31%, list=12%, signal=35%
GSE24634_TREE_VS_TCONV_POST_D	178	0.443154	1.48348	0	0.107142	1	3126 tags=37%, list=19%, signal=46%	0.658176	2.20474	0	0	0	2846 tags=50%, list=18%, signal=60%
GSE3982_MAC_VS_TH2_UP	181	0.444287	1.48337	0.00118906	0.105858	1	3305 tags=38%, list=21%, signal=47%	0.268266	0.909236	0.688889	0.838812	1	3221 tags=27%, list=20%, signal=33%
MYOBLAST_DIFFERENTIATION	16	0.655974	1.48335	0.0363636	0.105264	1	924 tags=19%, list=6%, signal=20%	0.53381	1.20959	0.222591	0.41845	1	2701 tags=31%, list=17%, signal=38%
RESPONSE_TO_HORMONE_STIMULUS	32	0.57685	1.48325	0.0296412	0.104798	1	1486 tags=22%, list=9%, signal=24%	-0.352153	-1.02701	0.392954	0.613924	1	1274 tags=19%, list=8%, signal=20%
GSE22886_UNSTIM_VS_L15_STIM_N	190	0.444043	1.4828	0.00357995	0.104749	1	3432 tags=37%, list=21%, signal=47%	0.470907	1.59438	0.00122549	0.0723777	0.994	2582 tags=35%, list=16%, signal=42%
GSE29618_PDC_VS_MDC_DAY7_FLU	181	0.444902	1.4814	0.00492611	0.105861	1	3229 tags=43%, list=20%, signal=53%	0.268988	0.906735	0.727723	0.844171	1	2637 tags=25%, list=16%, signal=30%
GSE24634_TEFF_VS_TCONV_DAY10_I	180	0.442885	1.47976	0	0.107142	1	3427 tags=44%, list=21%, signal=55%	0.360218	1.19855	0.103234	0.433004	1	3221 tags=36%, list=20%, signal=44%
GSE36392_TYPE_2_MYELOID_VS_MA	172	0.440622	1.47884	0.00245098	0.107555	1	2946 tags=31%, list=18%, signal=30%	0.395167	1.33728	0.0236318	0.253582	1	3104 tags=20%, list=19%, signal=25%
GSE30083_SP2_VS_SP3_THYMOCYTE	173	0.438827	1.47569	0.0049414	0.110589	1	3747 tags=36%, list=23%, signal=46%	0.303063	1.01803	0.429299	0.711674	1	2433 tags=15%, list=15%, signal=18%
ACTIN_FILAMENT_BASED_PROCESS	102	0.468472	1.47507	0.0116429	0.110607	1	3266 tags=33%, list=20%, signal=42%	0.32622	1.02614	0.393782	0.702536	1	2942 tags=25%, list=18%, signal=31%
GSE7460_TCONV_VS_TREG LN_DN	177	0.445032	1.47323	0.00240964	0.112445	1	3336 tags=40%, list=21%, signal=50%	0.360565	1.20798	0.0998736	0.419195	1	2560 tags=31%, list=16%, signal=36%
CYTOSKELETAL_PROTEIN_BINDING	142	0.454455	1.47181	0.00246914	0.113517	1	3140 tags=31%, list=20%, signal=38%	0.349064	1.14919	0.177083	0.493162	1	2942 tags=25%, list=18%, signal=30%
GSE9988_ANTI_TREM1_AND_LPS_VS	156	0.447427	1.47406	0.00127877	0.11436	1	1504 tags=21%, list=9%, signal=23%	0.429936	1.42624	0.005	0.167743	1	2751 tags=31%, list=17%, signal=38%
GSE6269_E_COLI_VS_STREP_AUREUS	146	0.451486	1.47014	0	0.114267	1	1806 tags=29%, list=11%, signal=32%	0.338173	1.11639	0.234839	0.540977	1	3497 tags=37%, list=22%, signal=47%
GSE29618_BCELL_VS_PDC_DAY7_FLU	175	0.439883	1.46883	0.00361011	0.115309	1	4019 tags=45%, list=25%, signal=59%	0.40344	1.35771	0.0124069	0.231813	1	2034 tags=28%, list=13%, signal=32%
CELL_PROLIFERATION_GO_0008283	472	0.411898	1.46793	0.0021575	0.115826	1	3144 tags=27%, list=20%, signal=32%	0.343565	1.23786	0.0163043	0.378119	1	2982 tags=25%, list=19%, signal=29%
POSITIVE_REGULATION_OF_TRANSFE	81	0.48539	1.46737	0.0142653	0.115822	1	1790 tags=21%, list=11%, signal=24%	0.294594	0.902336	0.663889	0.851496	1	2549 tags=23%, list=16%, signal=28%
GSE29618_BCELL_VS_MDC_DAY7_FLU	182	0.441646	1.46681	0	0.115888	1	3132 tags=38%, list=20%, signal=47%	-0.28386	-1.09051	0.207547	0.532601	1	2698 tags=34%, list=17%, signal=40%
CALMODULIN_BINDING	22	0.6203	1.46619	0.0382775	0.116129	1	1102 tags=32%, list=7%, signal=34%	0.431179	1.06349	0.362013	0.637652	1	3381 tags=45%, list=21%, signal=58%
EPIDERMAL_GROWTH_FACTOR_RECE	20	0.626077	1.46562	0.0424528	0.116255	1	2785 tags=35%, list=17%, signal=42%	0.335552	0.800367	0.768987	0.955564	1	1496 tags=20%, list=9%, signal=22%
GSE24634_TEFF_VS_TCONV_DAY10_I	175	0.442583	1.46456	0.00251889	0.116933	1	3339 tags=38%, list=21%, signal=48%	0.516189	1.72766	0	0.0321943	0.519	2802 tags=38%, list=17%, signal=46%
GSE3982_ESINOPHIL_VS_NK_CELL_U	170	0.440652	1.46439	0.00120482	0.116564	1	3673 tags=40%, list=23%, signal=51%	0.243026	0.818775	0.902558	0.938896	1	3090 tags=22%, list=19%, signal=27%
GSE37416_OH_VS_24H_FU_TULARENSI	165	0.442646	1.46413	0.00249377	0.116268	1	3004 tags=37%, list=19%, signal=45%	-0.324215	-1.23973	0.0243902	0.385451	1	3226 tags=39%, list=20%, signal=48%
PROTEIN_POLYMERIZATION	15	0.658884	1.46332	0.046589	0.116797	1	1152 tags=40%, list=7%, signal=43%	0.454667	1.0299	0.417526	0.700093	1	2499 tags=40%, list=16%, signal=47%
GSE3982_MAST_CELL_VS_MAC_DN	171	0.444715	1.46326	0.00122249	0.116283	1	2769 tags=31%, list=17%, signal=37%	0.27215	0.913643	0.676056	0.835009	1	2474 tags=20%, list=15%, signal=24%
GSE1460_INTRATHYMIC_T_PROGENIT	179	0.442585	1.46255	0.00238663	0.116659	1	3126 tags=39%, list=19%, signal=48%	0.480989	1.6273	0.00122549	0.0653209	0.95	2611 tags=35%, list=16%, signal=41%
SPINDLE	38	0.533153	1.46012	0.0279001	0.11906	1	2967 tags=42%, list=18%, signal=52%	0.52755	1.43569	0.0318471	0.163108	1	2499 tags=34%, list=16%, signal=40%
REGULATION_OF_CELL_MIGRATION	25	0.588756	1.45582	0.0268139	0.120402	1	1368 tags=24%, list=9%, signal=26%	0.511416	1.26303	0.152411	0.341092	1	1014 tags=20%, list=6%, signal=21%
REGULATION_OF_CYTOKINE_PRODUCT	23	0.59543	1.45453	0.0452342	0.125279	1	1287 tags=30%, list=8%, signal=33%	0.537674	1.31611	0.111811	0.27228	1	1045 tags=35%, list=7%, signal=37%
GSE24634_IL4_VS_CTRL_TREATED_NU	171	0.439109	1.45451	0.00123457	0.124667	1	3694 tags=45%, list=23%, signal=58%	0.354114	1.18794	0.111675	0.441692	1	2297 tags=23%, list=14%, signal=27%
GSE3982_DC_VS_VS_TH2_UP	164	0.440826	1.45229	0.00492005	0.126974	1	4201 tags=48%, list=26%, signal=65%	0.337901	1.1422	0.171149	0.507026	1	2887 tags=28%, list=18%, signal=34%
RESPONSE_TO_EXTERNAL_STIMULUS	279	0.418426	1.45111	0	0.128209	1	3217 tags=26%, list=20%, signal=32%	0.373729	1.30367	0.0151163	0.283753	1	2837 tags=23%, list=18%, signal=28%
CYTOSKELETON	328	0.416814	1.45085	0	0.127914	1	3612 tags=31%, list=23%, signal=40%	0.406967	1.45217	0	0.150705	1	2572 tags=25%, list=16%, signal=29%
NEUROGENESIS	85	0.468339	1.45074	0.0149254	0.127141	1	1140 tags=15%, list=7%, signal=16%	0.323195	1.00163	0.467302	0.742301	1	1436 tags=11%, list=9%, signal=12%
GSE16522_ANTI_CD3CD28_STIM_VS	174	0.434897	1.45059	0.00239234	0.126873	1	3614 tags=36%, list=23%, signal=45%	0.393185	1.33297	0.0190703	0.258671	1	3519 tags=34%, list=22%, signal=44%
GSE7852_THYMUS_VS_FAT_TCONV_I	181	0.437237	1.45026	0.00123916	0.126857	1	1759 tags=24%, list=11%, signal=27%	-0.265579	-1.02807	0.351955	0.610976	1	3226 tags=33%, list=20%, signal=41%
GSE13229_IMM_VS_INTMATURE_NK	172	0.441412	1.44914	0.00490505	0.126764	1	2700 tags=22%, list=17%, signal=26%	0.383293	1.2806	0.035	0.311287	1	2718 tags=21%, list=17%, signal=25%
GSE32423_CTR_VS_IL4_MEMORY_CI	175	0.436386	1.44821	0.00377834	0.128484	1	3308 tags=34%, list=21%, signal=42%	-0.253231	-0.98424	0.471204	0.687245	1	2608 tags=23%, list=16%, signal=27%
CALCIUM_INDEPENDENT_CELL_CELL	20	0.598873	1.44753	0.0485893	0.128876	1	1088 tags=15%, list=7%, signal=16%	0.45867	1.07235	0.366987	0.619824	1	2515 tags=15%, list=16%, signal=18%
RESPONSE_TO_WOUNDING	173	0.437865	1.44741	0.00715137	0.128388	1	2958 tags=28%, list=18%, signal=34%	0.391844	1.31953	0.0298137	0.268677	1	1805 tags=20%, list=11%, signal=23%
GSE15767_MED_VS_SC5_MAC_LN_UI	174	0.432642	1.44704	0.00739827	0.128285	1	3297 tags=34%, list=21%, signal=42%	-0.275535	-1.057	0.242574	0.576651	1	1696 tags=22%, list=11%, signal=24%
GSE22886_NAIVE_BCELL_VS_BLOOD_	183	0.43298	1.44499	0.00595917	0.130673	1	2923 tags=32%, list=18%, signal=38%	0.497356	1.68603	0	0.0474051	0.736	2550 tags=34%, list=16%, signal=40%
EXTRACELLULAR_MATRIX_STRUCTUR	22	0.589043	1.44385	0.0459016	0.13163	1	2754 tags=27%, list=17%, signal=33%	-0.387276	-1.025	0.37931	0.621022	1	3460 tags=27%, list=22%, signal=35%
RESPONSE_TO_STRESS	467	0.407555	1.44289	0	0.132351	1	3468 tags=31%, list=22%, signal=39%	0.354881	1.29283	0.00218103	0.296819	1	3250 tags=30%, list=20%, signal=36%
GSE3982_DC_VS_MAC_DN	173	0.434636	1.44208	0.00120048	0.132855	1	3086 tags=27%, list=19%, signal=33%	0.410999	1.38587	0.00743494	0.197653	1	2575 tags=25%, list=16%, signal=30%
RHOHOPSLN_LIKE_RECEPATOR_ACTIVIT	124	0.44988	1.44168	0.00518807	0.132841	1	2320 tags=14%, list=14%, signal=16%	-0.286909	-1.0604	0.288618	0.572072	1	694 tags=6%, list=4%, signal=7%
GSE14000_4H_VS_16H_LPS_DC_TRA	175	0.437415	1.44135	0.00477897	0.132725	1	3443 tags=43%, list=21%, signal=54%	0.337284	1.13448	0.190416	0.517398	1	2959 tags=30%, list=18%, signal=36%
GSE22886_NAIVE_BCELL_VS_CD_DN	182	0.42715	1.44049	0.00480769	0.132326	1	3035 tags=35%, list=19%, signal=45%	0.269349	0.916829	0.67866	0.832812	1	2967 tags=30%, list=18%, signal=37%
GSE14769_UNSTIM_VS_80MIN_LPS_I	174	0.433361	1.43964	0.00609013	0.133794	1	1992 tags=29%, list=12%, signal=33%	0.292402	0.986648	0.488402	0.750629	1	2367 tags=22%, list=15%, signal=25%
CELL_MIGRATION	87	0.471937	1.43962	0.0122449	0.133215	1	2918 tags=24%, list=18%, signal=29%	0.415117	1.28641	0.0698324	0.307298	1	2190 tags=22%, list=14%, signal=25%
GSE3092_ACUTE_VS_CHRONIC_LCM	183	0.429272	1.43958	0.00242131	0.132636	1	3521 tags=41%, list=22%, signal=52%	0.483436	1.62821	0	0.0676766	0.95	2016 tags=28%, list=1

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

MITOTIC_CELL_CYCLE	139	0.441806	1.42562	0.00388098	0.139358	1	2967 tags=37%, list=18%, signal=45%	0.446435	1.48953	0.00258398	0.136174	1	3068 tags=41%, list=19%, signal=50%
GSE20715_OH_VS_6H_OZONE_LUNG	175	0.432212	1.42553	0	0.138915	1	2617 tags=25%, list=16%, signal=30%	0.349865	1.17528	0.140199	0.453652	1	3491 tags=31%, list=22%, signal=40%
GSE30962_PRIMARY_VS_SECONDARY	166	0.431061	1.42414	0.00853659	0.140608	1	2062 tags=23%, list=13%, signal=26%	0.249158	-0.950325	0.641414	0.767016	1	1740 tags=16%, list=11%, signal=17%
GSE17721_CPG_VS_GARDIQUIMOD_	174	0.428312	1.42274	0.00490798	0.142156	1	2586 tags=30%, list=16%, signal=35%	0.293622	0.991381	0.489621	0.749648	1	3187 tags=27%, list=20%, signal=33%
GSE22886_UNSTIM_VS_LL2_STIM_NK	187	0.422836	1.42246	0.004837321	0.142	1	3285 tags=36%, list=20%, signal=45%	0.558131	1.88577	0	0.00351033	0.042	2517 tags=44%, list=16%, signal=51%
GSE339_EX_VIVO_VS_IN_CULTURE_C	181	0.42426	1.42119	0.00487805	0.143389	1	3294 tags=34%, list=21%, signal=42%	0.401281	1.35122	0.0136646	0.239752	1	3240 tags=29%, list=20%, signal=36%
ACTIN_POLYMERIZATION_AND_OR_D	20	0.60716	1.41989	0.0537815	0.145006	1	1152 tags=35%, list=7%, signal=38%	0.336142	0.824096	0.737705	0.932217	1	1496 tags=20%, list=9%, signal=22%
GSE24224_DN2_VS_DN3_THMOCYT	186	0.424272	1.4184	0.00238949	0.146639	1	2072 tags=27%, list=13%, signal=31%	0.355501	1.20235	0.0869565	0.427844	1	3290 tags=32%, list=20%, signal=40%
GSE3982_DC_VS_TH1_UP	172	0.43128	1.41813	0.00743494	0.146455	1	2659 tags=30%, list=17%, signal=35%	0.302184	1.01182	0.438424	0.726471	1	2865 tags=28%, list=18%, signal=34%
GSE7852_TREG_VS_TCINV_UP	181	0.427907	1.41744	0.00371747	0.146819	1	2907 tags=34%, list=18%, signal=41%	0.274044	0.928247	0.640068	0.81493	1	3423 tags=33%, list=21%, signal=42%
REGULATION_OF_PROTEIN_STABILITY	17	0.624026	1.41637	0.0623946	0.147963	1	3106 tags=53%, list=19%, signal=66%	0.511645	1.18205	0.248773	0.448872	1	3418 tags=35%, list=21%, signal=45%
GSE24142_EARLY_THYMIC_PROGENIT	183	0.422574	1.41625	0.00710059	0.147528	1	2681 tags=30%, list=17%, signal=35%	0.262015	-1.00557	0.39196	0.642128	1	2534 tags=25%, list=16%, signal=30%
SENSORY_PERCEPTION_OF_CHEMICA	19	0.60273	1.41422	0.0544	0.149959	1	1807 tags=16%, list=11%, signal=18%	0.368585	-0.935746	0.536585	0.788787	1	1696 tags=11%, list=11%, signal=12%
GSE14350_I2R2B_KO_VS_WT_TEFF_D	177	0.427303	1.41399	0.0059312	0.149769	1	2934 tags=33%, list=18%, signal=40%	0.278858	0.93867	0.615385	0.800989	1	1877 tags=18%, list=12%, signal=20%
GSE17721_0.5H_VS_24H_PAM3CSK4	183	0.421978	1.41369	0.00484261	0.149674	1	3387 tags=37%, list=21%, signal=46%	0.338085	1.14877	0.15679	0.494127	1	3038 tags=31%, list=19%, signal=37%
GSE17721_CTRL_VS_POLYC_24H_BN	172	0.425048	1.41316	0.00744417	0.149185	1	3145 tags=31%, list=20%, signal=39%	0.233193	0.787323	0.961202	0.966019	1	3457 tags=25%, list=22%, signal=32%
NEGATIVE_REGULATION_OF_CELLUL	28	0.553685	1.41288	0.0458861	0.149674	1	2066 tags=29%, list=13%, signal=33%	0.613294	1.57554	0.00596125	0.0839738	0.997	2711 tags=36%, list=17%, signal=43%
GSE3982_ESINOPHIL_VS_CENT_MEI	170	0.421046	1.41254	0.00609756	0.149584	1	3468 tags=40%, list=22%, signal=50%	0.327719	1.10318	0.237139	0.555329	1	4007 tags=38%, list=25%, signal=50%
GSE9037_CTRL_VS_LPS_4H_STIM_BN	182	0.423148	1.41121	0.00959233	0.151156	1	2842 tags=32%, list=18%, signal=38%	-0.310987	-1.20343	0.026738	0.426599	1	2952 tags=32%, list=18%, signal=39%
M_PHASE	101	0.452463	1.41039	0.0156454	0.151907	1	2967 tags=36%, list=18%, signal=43%	0.46363	1.47724	0.0082531	0.138653	1	3068 tags=43%, list=19%, signal=52%
CELL_SUBSTRATE_ADHESION	35	0.529455	1.40901	0.0455259	0.153465	1	2963 tags=40%, list=18%, signal=49%	0.483772	1.31427	0.0876369	0.271581	1	2723 tags=29%, list=17%, signal=34%
GSE17580_TREG_VS_TEFF_S_MANSO	179	0.42216	1.40808	0.00118765	0.154427	1	3540 tags=37%, list=22%, signal=47%	0.30928	1.03514	0.3825	0.690859	1	2881 tags=26%, list=18%, signal=31%
GSE10463_CD40L_AND_VA347_VS_C	161	0.4265	1.40674	0.0123457	0.156019	1	3786 tags=34%, list=24%, signal=44%	-0.230419	-0.881398	0.882927	0.903518	1	2675 tags=20%, list=17%, signal=24%
GSE7460_CD8_TCELL_VS_CD4_TCELL	170	0.428136	1.40663	0.00621118	0.155607	1	2222 tags=28%, list=14%, signal=32%	0.289972	0.967908	0.545906	0.776535	1	3403 tags=31%, list=21%, signal=39%
REGULATION_OF_RAS_PROTEIN_SIGNAL	17	0.617679	1.40625	0.0527183	0.155596	1	2366 tags=35%, list=15%, signal=41%	0.408527	0.937417	0.546798	0.801554	1	2451 tags=35%, list=15%, signal=42%
GSE3982_ESINOPHIL_VS_EFF_MEM	170	0.423277	1.40393	0.00837321	0.158881	1	3413 tags=35%, list=21%, signal=44%	0.282003	0.950806	0.61227	0.786771	1	3038 tags=29%, list=19%, signal=35%
GSE1432_CTRL_VS_IFNG_24H_MICR	178	0.423095	1.40391	0.00616523	0.158274	1	2436 tags=26%, list=15%, signal=31%	-0.251825	-0.973361	0.572864	0.713695	1	1806 tags=21%, list=11%, signal=23%
GSE24142_EARLY_THYMIC_PROGENIT	183	0.423605	1.4039	0.00612745	0.157694	1	3097 tags=31%, list=19%, signal=38%	0.417408	1.40342	0.00501882	0.188961	1	2829 tags=30%, list=18%, signal=35%
GSE27786_LSK_VS_CD8_TCELL_DN	173	0.425791	1.40305	0.00982801	0.158638	1	3866 tags=35%, list=24%, signal=46%	-0.301059	-1.14573	0.0869565	0.470512	1	2601 tags=25%, list=16%, signal=30%
GSE22886_IGG_IGA_MEMORY_BCELL	179	0.420199	1.40139	0.00363636	0.16086	1	3378 tags=35%, list=21%, signal=44%	0.48525	1.6389	0	0.0063231	0.922	2263 tags=33%, list=14%, signal=38%
GSE29618_MONOCYTE_VS_PDC_DAY	168	0.423991	1.40137	0.00609013	0.160316	1	3425 tags=38%, list=21%, signal=48%	0.407681	1.38257	0.0112219	0.202635	1	2533 tags=31%, list=16%, signal=36%
CELL_JUNCTION	74	0.471985	1.40123	0.0212465	0.159981	1	3103 tags=26%, list=19%, signal=32%	0.381187	1.16126	0.169468	0.481175	1	2875 tags=18%, list=18%, signal=21%
MEMBRANE_ORGANIZATION_AND_B	121	0.437684	1.40084	0.0115681	0.160047	1	1987 tags=21%, list=12%, signal=23%	0.464023	1.5072	0.00132275	0.125011	1	2443 tags=28%, list=15%, signal=33%
CYTOSKELETAL_PART	210	0.412996	1.39942	0.00356295	0.161855	1	3612 tags=35%, list=23%, signal=45%	0.415913	1.43351	0.00361011	0.160877	1	2572 tags=26%, list=16%, signal=30%
GSE32423_CTRL_VS_IL7_IL4_MEMOR	177	0.422559	1.39874	0.00241838	0.162372	1	3287 tags=32%, list=20%, signal=39%	-0.333623	-1.29416	0.0215054	0.344939	1	2529 tags=32%, list=16%, signal=37%
I_KAPPAB_KINASE_NF_KAPPAB_CASC	100	0.450127	1.39872	0.0199468	0.161825	1	3317 tags=41%, list=21%, signal=51%	0.41678	1.33767	0.0395634	0.253421	1	3754 tags=48%, list=23%, signal=62%
GSE9650_EFFECTOR_VS_MEMORY_CI	182	0.422914	1.39861	0.0071599	0.161408	1	3221 tags=34%, list=20%, signal=41%	0.399076	1.35331	0.017094	0.238069	1	1738 tags=23%, list=11%, signal=26%
INORGANIC_ANION_TRANSMEMBRA	16	0.6119	1.39767	0.0767918	0.162477	1	3068 tags=44%, list=19%, signal=54%	0.359687	0.807099	0.741056	0.949421	1	2693 tags=25%, list=17%, signal=30%
GSE31082_DL_VS_CD8_SP_THMOCY	175	0.418778	1.39372	0.00837321	0.168893	1	2925 tags=33%, list=18%, signal=39%	0.285721	0.960575	0.560248	0.774953	1	2161 tags=20%, list=13%, signal=23%
GSE17721_0.5H_VS_8H_PAM3CSK4_I	175	0.419759	1.39243	0.0111801	0.170611	1	3217 tags=34%, list=20%, signal=42%	0.276573	0.929764	0.638191	0.811138	1	2496 tags=21%, list=16%, signal=24%
GSE7852_THYMUS_VS_FAT_TREG_DN	171	0.419098	1.39214	0.0142857	0.17052	1	2952 tags=29%, list=18%, signal=35%	0.406294	1.36319	0.0149813	0.222398	1	2645 tags=27%, list=16%, signal=32%
DNA_REPLICATION	91	0.451918	1.39182	0.0223684	0.170535	1	3129 tags=33%, list=19%, signal=41%	0.410835	1.27736	0.0913979	0.314693	1	2237 tags=30%, list=14%, signal=34%
GSE27786_CD4_TCELL_VS_MONO_M	169	0.423558	1.39155	0.00732601	0.17048	1	3677 tags=36%, list=23%, signal=46%	0.351817	1.18903	0.113553	0.440387	1	3625 tags=32%, list=23%, signal=41%
GSE1460_NAIVE_CD4_TCELL_ADULT_	184	0.418839	1.3914	0.00609013	0.170145	1	3403 tags=33%, list=21%, signal=42%	0.360922	1.21463	0.0774908	0.412709	1	2303 tags=23%, list=14%, signal=26%
MIOCTIC_CELL_CYCLE	32	0.533184	1.39088	0.0602424	0.170546	1	1077 tags=19%, list=7%, signal=20%	0.328859	0.862115	0.691718	0.898645	1	2011 tags=25%, list=13%, signal=29%
GSE3982_MAC_VS_BCELL_UP	181	0.416215	1.3906	0.0111194	0.170423	1	3770 tags=41%, list=23%, signal=53%	0.294592	0.986869	0.515151	0.751443	1	2551 tags=22%, list=16%, signal=25%
GSE24142_ADULT_VS_FETAL_DN3_TH	178	0.415426	1.39025	0.00858896	0.170414	1	2143 tags=26%, list=19%, signal=29%	0.250802	0.851285	0.823529	0.907051	1	2923 tags=26%, list=18%, signal=31%
KAECH_DAY8 EFF_VS_DAY15 EFF_CC	182	0.420029	1.3902	0.0121212	0.169915	1	2451 tags=23%, list=15%, signal=27%	0.437747	1.4782	0.00249377	0.138527	1	1659 tags=21%, list=10%, signal=23%
GSE3360_L_DONOVANI_VS_B_MALAYI	181	0.420211	1.39017	0.00734394	0.169389	1	3404 tags=31%, list=21%, signal=40%	0.395632	1.34779	0.0159509	0.243632	1	2474 tags=24%, list=15%, signal=28%
CELLULAR_MORPHOGENESIS_DURING	43	0.503297	1.38987	0.00517504	0.169125	1	766 tags=14%, list=5%, signal=15%	0.355572	0.990433	0.465649	0.749832	1	937 tags=9%, list=6%, signal=10%
INORGANIC_CATION_TRANSMEMBRA	51	0.488721	1.38968	0.0417266	0.169006	1	2871 tags=31%, list=18%, signal=38%	0.411092	1.16859	0.203488	0.468148	1	2117 tags=22%, list=13%, signal=25%
TIGHT_JUNCTION	27	0.548194	1.38945	0.0586319	0.168854	1	1088 tags=15%, list=7%, signal=16%	0.32063	0.753623	0.939379	1	2875 tags=15%, list=18%, signal=18%	
POSITIVE_REGULATION_OF_PROTEIN	28	0.545067	1.38874	0.0685358	0.169489	1	3356 tags=39%, list=21%, signal=50%	0.537381	1.3773	0.070626	0.209143	1	2701 tags=39%, list=17%, signal=47%
GSE3982_ESINOPHIL_VS_BCELL_UP	173	0.419617	1.38857	0.0136986	0.16927	1	3218 tags=30%, list=20%, signal=37%	0.254356	0.85419	0.821293	0.90531	1	3722 tags=26%, list=23%, signal=33%
GSE26928_NAIVE_VS_CXCR5_PCS_C	160	0.419458	1.38813	0.01368616	0.169494	1	2675 tags=28%, list=17%, signal=33%	0.342586	1.15079	0.169788	0.491663	1	3940 tags=35%, list=25%, signal=46%
REGULATION_OF_I_KAPPAB_KINASE	85	0.455336	1.38792	0.0421196	0.169243	1	2630 tags=32%, list=16%, signal=41%	0.422424	1.31387	0.0488506	0.271793	1	3916 tags=53%, list=24%, signal=70%
ENZYME_ACTIVATOR_ACTIVITY	115	0.435671	1.38629	0.0219072	0.171776	1	1303 tags=17%, list=8%, signal=18%	0.313683	1.01264	0.43879	0.727278	1	3729 tags=30%, list=23%, signal=38%
GSE11864_CSF1_IFNG_VS_CSF1_PAM	155	0.422252	1.38616</										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE360_L_MAJOR_VS_B_MALAYI_HIK	172	0.41195	1.37357	0.00968523	0.181008	1	3153 tags=26%, list=20%, signal=31%	0.320482	1.08087	0.273885	0.602399	1	2203 tags=17%, list=14%, signal=19%
GSE17721_LPS_V_CPG_16H_BMDM	176	0.413309	1.3725	0.00966184	0.18251	1	2536 tags=24%, list=16%, signal=28%	0.389377	1.3113	0.0281174	0.275704	1	2887 tags=28%, list=18%, signal=34%
MOLECULAR_ADAPTER_ACTIVITY	46	0.490323	1.37223	0.054755	0.182428	1	2792 tags=39%, list=17%, signal=47%	0.443883	1.24542	0.135258	0.36561	1	2362 tags=33%, list=15%, signal=38%
PHOSPHORIC_DIESTER_HYDROLASE_J	38	0.504482	1.37214	0.0590909	0.182055	1	871 tags=18%, list=5%, signal=19%	0.401018	1.10109	0.293853	0.559904	1	3722 tags=37%, list=23%, signal=48%
GSE22045_TREG_VS_TCNV_UP	146	0.420584	1.37139	0.0191571	0.182868	1	2596 tags=25%, list=16%, signal=30%	0.371902	1.23969	0.0722433	0.377184	1	2275 tags=21%, list=14%, signal=25%
GSE37416_OH_VS_48H_TULARENSI	169	0.412481	1.37084	0.0151707	0.183366	1	3344 tags=40%, list=21%, signal=50%	-0.245904	-0.936544	0.665049	0.788158	1	3034 tags=32%, list=19%, signal=39%
GSE17721_CTRL_VS_LPS_0.5H_BMDM	170	0.411306	1.37078	0.0160296	0.18289	1	2987 tags=29%, list=19%, signal=36%	0.386023	1.30254	0.0352645	0.283788	1	2473 tags=24%, list=15%, signal=28%
GSE17721_LPS_VS_PCD_UP	167	0.413866	1.36916	0.00623441	0.185359	1	2446 tags=32%, list=15%, signal=38%	-0.34102	-1.29778	0.0105263	0.34876	1	2010 tags=28%, list=13%, signal=31%
GSE15324_NAIVE_VS_ACTIVATED_CD	180	0.40994	1.36911	0.00828402	0.18489	1	2746 tags=30%, list=17%, signal=36%	0.35478	1.20523	0.109726	0.423926	1	3368 tags=33%, list=21%, signal=41%
GSE360_HIGH_VS_LOW_DOSE_B_MA	176	0.409931	1.3682	0.00828402	0.18615	1	2404 tags=24%, list=15%, signal=28%	0.284191	0.956359	0.583851	0.778889	1	2516 tags=20%, list=16%, signal=23%
GSE26928_NAIVE_VS_EFF_MEMORY	160	0.412445	1.36618	0.00746269	0.189605	1	2808 tags=31%, list=17%, signal=37%	0.405486	1.34978	0.0164557	0.240632	1	3221 tags=29%, list=20%, signal=36%
GSE17721_CTRL_VS_POLYIC_0.5H_BN	171	0.411715	1.36614	0.0125156	0.189134	1	3085 tags=30%, list=19%, signal=37%	0.38845	1.31132	0.0258303	0.276462	1	2473 tags=26%, list=15%, signal=31%
GSE7460_CTRL_VS_TGF_B_TREATED_A	168	0.408343	1.36612	0.0101138	0.188584	1	3090 tags=33%, list=19%, signal=40%	-0.366775	-1.38299	0.015544	0.293068	1	1982 tags=24%, list=12%, signal=27%
GSE17721_0.5H_VS_4H_LPS_BMDM	175	0.411446	1.36609	0.00596659	0.188051	1	3295 tags=32%, list=21%, signal=40%	0.253558	0.850753	0.844913	0.906873	1	2073 tags=13%, list=13%, signal=15%
CELL_SURFACE	70	0.456897	1.3655	0.0444444	0.188688	1	2366 tags=23%, list=15%, signal=27%	0.485544	1.43782	0.168539	0.161405	1	3118 tags=31%, list=19%, signal=39%
PHOSPHOPROTEIN_PHOSPHATASE_AI	69	0.454365	1.36527	0.0564175	0.188543	1	2256 tags=33%, list=14%, signal=39%	-0.203130	-0.773277	0.95189	0.995078	1	2221 tags=19%, list=14%, signal=22%
GSE3982_DC_VS_MAC_LPS_STIM_DN	168	0.415066	1.36514	0.0111801	0.188262	1	3273 tags=32%, list=20%, signal=40%	0.419816	1.40906	0.00609756	0.182335	1	1520 tags=19%, list=9%, signal=21%
KAECH_NAIVE_VS_DAY8_EFF_CD8_TC	181	0.409415	1.36493	0.0156062	0.188129	1	2970 tags=31%, list=19%, signal=38%	0.427563	1.45411	0.00126263	0.150673	1	2401 tags=29%, list=15%, signal=34%
GSE26928_EFF_MEM_VS_CENTR_ME	143	0.422433	1.36367	0.0164766	0.19003	1	2577 tags=24%, list=16%, signal=28%	0.469775	1.55827	0.00126743	0.096753	1	3005 tags=36%, list=19%, signal=44%
MICROTUBULE_CYTOSKELETON	133	0.421488	1.36282	0.0236613	0.191145	1	3521 tags=38%, list=22%, signal=49%	0.452192	1.48197	0.00518135	0.137539	1	2569 tags=30%, list=16%, signal=36%
GSE12366_NAIVE_VS_MEMORY_BCEI	166	0.409756	1.36264	0.0134474	0.190974	1	2455 tags=31%, list=15%, signal=36%	-0.27532	-1.05203	0.306977	0.577745	1	2193 tags=25%, list=14%, signal=28%
GSE11864_CSF1_IFNG_VS_CSF1_IFNG	166	0.413475	1.36207	0.0168269	0.191618	1	3228 tags=34%, list=20%, signal=43%	0.298129	0.993075	0.494238	0.750625	1	4031 tags=34%, list=25%, signal=45%
GSE17721_PAM3CSK4_W_GADICQUIN	180	0.409621	1.3619	0.0133172	0.191466	1	2975 tags=32%, list=19%, signal=40%	-0.261739	-1.01823	0.353591	0.624238	1	2663 tags=27%, list=17%, signal=32%
REGULATION_OF_SMALL_GTPASE_MI	19	0.574704	1.36169	0.0981997	0.19137	1	1364 tags=26%, list=8%, signal=29%	0.407289	0.964364	0.486971	0.774018	1	3809 tags=47%, list=24%, signal=62%
GSE9988_ANTI_TREM1_VS_VEHICLE	165	0.411899	1.36143	0.0217918	0.191233	1	1997 tags=24%, list=12%, signal=27%	0.361479	1.21252	0.0925222	0.414445	1	3443 tags=34%, list=21%, signal=43%
EMBRYONIC_DEVELOPMENT	54	0.47462	1.36113	0.0525547	0.191244	1	2502 tags=20%, list=16%, signal=24%	0.422223	1.23413	0.130341	0.380589	1	3235 tags=24%, list=20%, signal=30%
PHOSPHORIC_ESTER_HYDROLASE_AC	134	0.420565	1.36041	0.0215736	0.192135	1	2256 tags=25%, list=14%, signal=29%	0.293804	0.964827	0.557841	0.772987	1	3904 tags=31%, list=24%, signal=40%
SUBSTRATE_SPECIFIC_TRANSMEMBR	303	0.392009	1.35954	0.00340909	0.193113	1	2871 tags=22%, list=18%, signal=26%	0.312856	1.10688	0.19515	0.554899	1	2840 tags=17%, list=18%, signal=20%
GSE360_L_DONOVANI_VS_M_TUBER	169	0.413218	1.35818	0.0184957	0.195155	1	3337 tags=32%, list=21%, signal=40%	0.42996	1.44137	0.00124533	0.158555	1	3229 tags=34%, list=20%, signal=42%
GSE27786_NKCELL_VS_NKTCELL_UP	175	0.4085	1.35775	0.0109223	0.195409	1	3485 tags=38%, list=22%, signal=48%	0.345902	1.16912	0.128916	0.467637	1	3139 tags=33%, list=20%, signal=40%
EXTRINSIC_TO_MEMBRANE	20	0.574117	1.35762	0.0977199	0.195133	1	3772 tags=40%, list=23%, signal=52%	0.389429	0.927365	0.543514	0.816688	1	3389 tags=35%, list=21%, signal=44%
GSE3982_DC_VS_CENT_MEMORY_CD	178	0.405045	1.35725	0.0183824	0.195265	1	3062 tags=33%, list=19%, signal=41%	0.417838	1.41465	0.00614251	0.175564	1	3977 tags=47%, list=25%, signal=61%
GSE3982_MAC_VS_CENT_MEMORY_C	178	0.408698	1.35714	0.00991326	0.194929	1	4352 tags=44%, list=27%, signal=60%	0.371365	1.26318	0.0441919	0.341404	1	2532 tags=27%, list=16%, signal=32%
PROTEOGLYCAN_METABOLIC_PROC	58	0.583347	1.35644	0.0880503	0.195842	1	3178 tags=39%, list=20%, signal=48%	-0.345969	-0.880099	0.634204	0.902819	1	1740 tags=22%, list=11%, signal=25%
GSE1460_DP_THYMOCYTE_VS_NAIVE	185	0.402107	1.35562	0.0098522	0.196785	1	2875 tags=31%, list=18%, signal=38%	0.43268	1.46021	0.00375469	0.145043	1	2611 tags=34%, list=16%, signal=40%
GSE2826_WT_VS_BT_KO_BCELL_DN	177	0.407458	1.35475	0.0136307	0.197987	1	3079 tags=28%, list=19%, signal=35%	0.339679	1.13868	0.186076	0.512459	1	2876 tags=24%, list=18%, signal=29%
ACTIN_CYTOSKELETON	119	0.421475	1.35455	0.0287958	0.197799	1	3425 tags=29%, list=21%, signal=37%	0.364556	1.18229	0.141161	0.448664	1	2944 tags=27%, list=18%, signal=33%
GSE14000_4H_VS_16H_LPS_DC_UP	166	0.406619	1.35416	0.0158924	0.197969	1	3420 tags=36%, list=21%, signal=45%	0.308217	1.04126	0.363402	0.681319	1	2855 tags=28%, list=18%, signal=33%
GSE25087_FETAL_VS_ADULT_TCINV	179	0.407054	1.35324	0.0205314	0.197984	1	2629 tags=28%, list=16%, signal=34%	0.356863	1.21163	0.0919118	0.416949	1	3173 tags=32%, list=20%, signal=40%
INTERCELLULAR_JUNCTION	58	0.468328	1.35323	0.0424929	0.198744	1	1755 tags=17%, list=11%, signal=19%	0.364034	1.07005	0.33864	0.624534	1	2875 tags=19%, list=18%, signal=23%
REGULATION_OF_CATALYTIC_ACTIVIT	252	0.392117	1.35263	0.0162413	0.199378	1	3351 tags=29%, list=21%, signal=37%	0.306405	1.06935	0.290323	0.625426	1	2586 tags=21%, list=16%, signal=25%
GSE17721_CPG_VS_GARDIQUIMOD_	177	0.401207	1.35257	0.0145808	0.19897	1	3065 tags=29%, list=19%, signal=36%	0.280329	0.94847	0.591636	0.789884	1	3337 tags=25%, list=21%, signal=32%
GSE39820_CTRL_VS_TGFBETA3_IL6_II	187	0.402129	1.35171	0.0168878	0.200205	1	3632 tags=39%, list=23%, signal=50%	0.293286	0.99555	0.458543	0.745881	1	2612 tags=26%, list=16%, signal=30%
DNA_REPLICATION_INITIATION	15	0.602088	1.35166	0.125212	0.199745	1	3057 tags=60%, list=19%, signal=74%	0.631008	1.44392	0.0616667	0.157199	1	2016 tags=47%, list=13%, signal=53%
G PROTEIN_COUPLED_RECEPтор_AC	169	0.405896	1.35162	0.00846433	0.199268	1	2644 tags=14%, list=16%, signal=16%	-0.279405	-1.07208	0.21875	0.553163	1	694 tags=6%, list=4%, signal=6%
NEGATIVE_REGULATION_OF_BIOSYN	29	0.5168	1.35149	0.0833333	0.198963	1	2066 tags=28%, list=13%, signal=32%	0.550434	1.44429	0.0461997	0.157721	1	2711 tags=24%, list=17%, signal=41%
GSE17721_POLYIC_VS_CPG_24H_BMI	183	0.407448	1.35097	0.01875	0.199515	1	2834 tags=25%, list=18%, signal=30%	0.282928	0.958845	0.573494	0.778198	1	2750 tags=25%, list=17%, signal=30%
GSE15659_RESTING_TREG_VS_NONS	169	0.408304	1.35058	0.0171359	0.199749	1	3138 tags=27%, list=20%, signal=33%	0.246186	0.83138	0.889441	0.923894	1	3312 tags=25%, list=21%, signal=32%
GSE12366_NAIVE_VS_MEMORY_BCEI	146	0.411361	1.3502	0.0223325	0.199968	1	3225 tags=36%, list=20%, signal=45%	0.264049	0.872291	0.746819	0.891793	1	1990 tags=18%, list=12%, signal=20%
RAS_PROTEIN_SIGNAL_TRANSDUCTIC	60	0.461363	1.35009	0.0485714	0.199661	1	2792 tags=28%, list=17%, signal=34%	0.438784	1.30992	0.0647482	0.275439	1	2628 tags=33%, list=16%, signal=40%
BEHAVIOR	137	0.418354	1.3497	0.0255428	0.19988	1	1645 tags=14%, list=10%, signal=15%	0.400961	1.31594	0.0262123	0.271965	1	2837 tags=20%, list=18%, signal=24%
GSE7461_CTRL_VS_FOPX3_OVEREXP1	166	0.408934	1.34926	0.0212249	0.200296	1	3300 tags=28%, list=21%, signal=35%	0.386034	1.27974	0.0510575	0.31295	1	2889 tags=25%, list=18%, signal=31%
GSE24142_EARLY_THYMIC_PROGENIT	175	0.407665	1.34924	0.0242718	0.199789	1	3282 tags=37%, list=20%, signal=45%	0.439188	1.46142	0.00121655	0.145413	1	2616 tags=28%, list=16%, signal=33%
GSE17974_IIL4_AND_ANTI_IL2_VS_U	161	0.409943	1.34876	0.0160891	0.200166	1	3118 tags=36%, list=19%, signal=44%	0.285867	0.951816	0.56798	0.785449	1	3511 tags=30%, list=22%, signal=38%
GSE339_CD4POS_VS_CD8POS_DC_DN	175	0.404463	1.34868	0.00854701	0.199799	1	2726 tags=32%, list=17%, signal=38%	0.37953	1.27841	0.0475594	0.31386	1	2835 tags=31%, list=18%, signal=38%
REGULATION_OF_PHOSPHORYLATION	47	0.480503	1.34736	0.0273463	0.201816	1	3093 tags=34%, list=19%, signal=42%	0.443522	1.25188	0.110626	0.356532	1	2837 tags=38%, list=18%, signal=46%
GSE28237_FOLLICULAR_VS_EARLY_GI	180	0.405862	1.34735	0.0192308	0.201828	1	3319 tags=33%, list=21%, signal=41%	0.390236	1.32269	0.0188442	0.267894	1	3455 tags=34%, list=22%, signal=43%
GSE29618_LAIV_VS_TIV_FLU_VACC													

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE360_L_MAJOR_VS_B_MALAYI_LO	169	0.402729	1.33348	0.0172626	0.218495	1	1879 tags=17%, list=12%, signal=19%	0.333313	1.12458	0.198529	0.535583	1	3459 tags=24%, list=22%, signal=30%
DNA_PACKAGING	30	0.515346	1.33307	0.0957792	0.218817	1	2714 tags=27%, list=17%, signal=32%	0.447654	1.17587	0.207951	0.452887	1	2114 tags=30%, list=13%, signal=34%
GSE2286_IL2_VS_II15_STIM_NKCELL	161	0.401293	1.33303	0.02625	0.218416	1	2190 tags=14%, list=14%, signal=16%	0.299784	1.00074	0.439904	0.739474	1	957 tags=9%, list=6%, signal=10%
GSE3982_BASOPHIL_VS_EFF_MEMOR	169	0.405473	1.33299	0.0170524	0.217938	1	3886 tags=38%, list=24%, signal=49%	-0.265673	-1.01439	0.386139	0.625569	1	1983 tags=23%, list=12%, signal=26%
CELL_MATRIX_ADHESION	34	0.50303	1.33289	0.0862866	0.217551	1	2963 tags=38%, list=18%, signal=47%	0.457155	1.1974	0.214173	0.431486	1	2723 tags=26%, list=17%, signal=32%
GSE3982_DC_VS_NKCELL_UP	183	0.398728	1.33266	0.0216086	0.217523	1	3044 tags=32%, list=19%, signal=39%	0.326192	1.10821	0.216545	0.553338	1	2366 tags=23%, list=15%, signal=27%
GSE17721_POLYIC_VS_GARDIQUIMOI	186	0.395341	1.33198	0.027027	0.218433	1	2731 tags=28%, list=17%, signal=33%	0.326555	1.10508	0.237805	0.556024	1	2963 tags=27%, list=18%, signal=33%
GSE3786_NKCELL_VS_MONO_MAC	166	0.398303	1.33147	0.0337349	0.218965	1	2967 tags=27%, list=18%, signal=33%	0.289823	0.965996	0.540244	0.775083	1	3093 tags=23%, list=19%, signal=28%
CYTOSKELETON_ORGANIZATION_ANC	183	0.397354	1.33051	0.0196708	0.220517	1	3338 tags=28%, list=21%, signal=35%	0.337068	1.13452	0.188045	0.517857	1	2949 tags=26%, list=18%, signal=32%
GSE13411_NAIVE_BCELL_VS_PLASMA	164	0.405453	1.33023	0.0288582	0.220566	1	2163 tags=21%, list=13%, signal=24%	0.45456	1.53637	0	0.107997	1	3226 tags=30%, list=20%, signal=38%
OXIDOREDUCTASE_ACTIVITY_GO_001	31	0.519368	1.33004	0.0795796	0.220413	1	1612 tags=16%, list=10%, signal=18%	-0.362057	-1.03944	0.365217	0.601353	1	2256 tags=19%, list=14%, signal=22%
TRANSMEMBRANE_TRANSPORTER_Ai	330	0.38038	1.3296	0.00898257	0.220996	1	3119 tags=22%, list=19%, signal=27%	0.307259	1.0977	0.21347	0.566088	1	4380 tags=26%, list=27%, signal=36%
GSE24142_ADULT_VS_FETAL_DN2_TH	178	0.400493	1.32946	0.0222772	0.220751	1	2978 tags=32%, list=19%, signal=39%	0.312732	1.05876	0.311392	0.646443	1	3224 tags=30%, list=20%, signal=37%
GSE37416_CTRL_VS_48H_F_TULAREN	174	0.397905	1.32942	0.0216607	0.220301	1	4085 tags=40%, list=25%, signal=53%	0.264584	0.89061	0.737975	0.857113	1	3889 tags=33%, list=24%, signal=44%
GSE1469_INTRATHYMIC_T_PROGENIT	173	0.399618	1.32902	0.0272953	0.220615	1	3584 tags=38%, list=22%, signal=48%	0.404483	1.36459	0.0161692	0.221868	1	3987 tags=45%, list=25%, signal=59%
GSE17721_CTRL_VS_GARDIQUIMOJ	175	0.401344	1.32869	0.0207065	0.220797	1	1983 tags=18%, list=12%, signal=21%	0.250937	0.846693	0.840686	0.913062	1	2174 tags=15%, list=14%, signal=18%
G_PROTEIN_COUPLED_RECEPтор_PR	311	0.381299	1.32857	0.00671892	0.220491	1	2380 tags=14%, list=15%, signal=16%	0.320375	1.13436	0.153584	0.516658	1	2443 tags=13%, list=15%, signal=15%
GSE29618_PRE_VS_DAY7_POST_LAIV	181	0.400204	1.32806	0.0134474	0.221035	1	3443 tags=39%, list=21%, signal=49%	0.363104	1.21575	0.0719603	0.410948	1	3590 tags=39%, list=22%, signal=50%
GSE17721_LPS_VS_PAMCSK4_BH_HI	174	0.400442	1.32803	0.0263158	0.220579	1	3414 tags=33%, list=21%, signal=42%	0.354255	1.20112	0.104348	0.427245	1	2661 tags=25%, list=17%, signal=30%
GSE17721_CTRL_VS_GARDIQUIMOJ	173	0.397289	1.32765	0.0225282	0.22089	1	3071 tags=29%, list=19%, signal=36%	-0.239019	-0.919215	0.763889	0.823677	1	3143 tags=27%, list=20%, signal=33%
GSE24634_TREG_VS_TCONV_POST_D	177	0.399093	1.32699	0.0175219	0.221784	1	3747 tags=44%, list=23%, signal=56%	0.437864	1.48374	0.00249377	0.137513	1	2490 tags=31%, list=16%, signal=36%
GSE3982_MAST_CELL_VS_TH2_UP	172	0.398325	1.32481	0.018226	0.226085	1	2734 tags=30%, list=17%, signal=35%	0.339361	1.15053	0.169345	0.490201	1	2450 tags=29%, list=15%, signal=34%
GSE7461_CTRL_VS_TGF_B_TREATED_A	174	0.389129	1.32447	0.020757	0.226304	1	3512 tags=40%, list=22%, signal=50%	0.279727	0.946057	0.600487	0.793188	1	3281 tags=28%, list=20%, signal=35%
GSE9988_LPS_VS_CTRL_TREATED_MG	166	0.402358	1.32446	0.0210918	0.225771	1	2597 tags=30%, list=16%, signal=35%	0.297385	1.00848	0.443489	0.729504	1	2339 tags=21%, list=15%, signal=24%
GSE9988_ANTI_TREM1_VS_CTRL_TRE	170	0.397794	1.32404	0.0311333	0.226187	1	2082 tags=26%, list=13%, signal=29%	0.377065	1.26158	0.04375	0.341065	1	3104 tags=34%, list=19%, signal=42%
GSE2286_CTRL_VS_LPS_24H_DC_DN	176	0.397306	1.32388	0.0145103	0.225951	1	3225 tags=37%, list=20%, signal=46%	0.340252	1.15306	0.150567	0.488867	1	3246 tags=32%, list=20%, signal=40%
POSITIVE_REGULATION_OF_PROTEIN	70	0.404288	1.32387	0.0619469	0.225448	1	3461 tags=37%, list=22%, signal=47%	0.395365	1.18934	0.169231	0.44062	1	2701 tags=33%, list=17%, signal=39%
SUBSTRATE_SPECIFIC_CHANNEL_ACTI	132	0.406356	1.32377	0.021197	0.225123	1	2776 tags=17%, list=17%, signal=21%	0.337084	1.10183	0.246415	0.558736	1	4126 tags=21%, list=26%, signal=28%
PROTEIN_BINDING_BRIDGING	55	0.459231	1.32369	0.0836941	0.224745	1	2792 tags=36%, list=17%, signal=44%	0.355048	1.03385	0.425406	0.691831	1	2942 tags=29%, list=18%, signal=35%
GSE13738_RESTING_VS_BYSTANDER	177	0.399691	1.32357	0.0258303	0.224486	1	1884 tags=28%, list=12%, signal=31%	0.386006	1.30457	0.0248139	0.281969	1	4110 tags=46%, list=26%, signal=62%
GSE17974_OH_VS_72H_IN_VITRO_AC	176	0.398079	1.32332	0.0185874	0.224513	1	2687 tags=30%, list=17%, signal=35%	0.416934	1.39251	0.0062422	0.199367	1	3815 tags=48%, list=24%, signal=62%
KINASE_REGULATOR_ACTIVITY	43	0.489903	1.32287	0.078056	0.224993	1	1781 tags=26%, list=11%, signal=29%	0.44332	1.23064	0.146305	0.384184	1	2830 tags=33%, list=18%, signal=39%
GSE24634_TREE_VS_TCONV_POST_D	177	0.39718	1.3228	0.0202788	0.224635	1	2983 tags=37%, list=19%, signal=45%	0.339483	1.14496	0.174905	0.501043	1	3016 tags=31%, list=19%, signal=38%
GSE25087_FETAL_VS_ADULT_TREG_L	169	0.398925	1.32272	0.032967	0.224282	1	3997 tags=41%, list=25%, signal=54%	0.367973	1.23151	0.0649682	0.382766	1	3534 tags=37%, list=22%, signal=47%
GSE3982_MAC_VS_TH1_UP	166	0.399873	1.3227	0.0208333	0.22382	1	2785 tags=33%, list=17%, signal=40%	-0.276469	-1.04707	0.264317	0.589609	1	1928 tags=23%, list=12%, signal=26%
GSE37416_OH_VS_12H_F_TULARENSI	174	0.398793	1.32099	0.0246002	0.227105	1	3344 tags=38%, list=21%, signal=47%	-0.28512	-1.11159	0.127168	0.505706	1	2839 tags=33%, list=18%, signal=39%
GTPase_ACTIVATOR_ACTIVITY	53	0.456469	1.31997	0.0628571	0.228872	1	1122 tags=19%, list=7%, signal=20%	-0.265012	-0.840034	0.823268	0.962159	1	1885 tags=21%, list=12%, signal=23%
GSE39820_CTR_VS_TGFBeta1_IIL2	179	0.394087	1.3199	0.0248815	0.228485	1	3962 tags=40%, list=25%, signal=52%	0.297307	1.00396	0.44878	0.738221	1	2079 tags=21%, list=13%, signal=24%
GSE3982_CENT_MEMORY_CD4_TCELL	185	0.395174	1.31937	0.026657	0.229127	1	2880 tags=32%, list=18%, signal=39%	0.440691	1.49389	0.00119904	0.133733	1	3038 tags=38%, list=19%, signal=46%
GSE29618_PDC_VS_MDC_DN	176	0.397636	1.31922	0.0332937	0.228973	1	4005 tags=45%, list=25%, signal=59%	-0.27785	-1.08421	0.183168	0.541261	1	3126 tags=35%, list=19%, signal=43%
POSITIVE_REGULATION_OF_CELLULARAI	69	0.444723	1.31911	0.0649526	0.22878	1	3461 tags=38%, list=22%, signal=48%	0.411208	1.24332	0.104895	0.368627	1	2701 tags=33%, list=17%, signal=40%
GSE360_CTRL_VS_T_GONDII_DC_DN	173	0.395392	1.3191	0.0334528	0.228269	1	3186 tags=28%, list=20%, signal=35%	0.352376	1.18577	0.106516	0.446623	1	2516 tags=22%, list=16%, signal=26%
CELL_CELL_ADHESION	79	0.438611	1.31905	0.0589023	0.227899	1	2918 tags=25%, list=18%, signal=31%	0.439254	1.34105	0.0644719	0.249589	1	3623 tags=27%, list=23%, signal=34%
CYTOKINE_PRODUCTION	69	0.445275	1.31895	0.0683403	0.227605	1	3461 tags=43%, list=22%, signal=55%	0.415299	1.23447	0.122419	0.381642	1	3215 tags=36%, list=20%, signal=45%
GSE3982_MAC_VS_BASOPHIL_UP	170	0.398276	1.31878	0.0221948	0.229616	1	3963 tags=41%, list=25%, signal=54%	-0.250653	-0.963998	0.562842	0.738871	1	1410 tags=15%, list=9%, signal=17%
GSE9988_ANTI_TREM1_AND_LPS_VS	166	0.399482	1.3171	0.0271941	0.230737	1	2082 tags=26%, list=13%, signal=29%	0.431231	1.45047	0.00125628	0.152463	1	2757 tags=31%, list=17%, signal=37%
GSE3982_BCELL_VS_TH2_DN	178	0.396421	1.31692	0.023199	0.230711	1	3126 tags=29%, list=19%, signal=36%	0.332291	1.12431	0.204433	0.534769	1	3114 tags=28%, list=19%, signal=34%
REGULATION_OF_PROTEIN_METABOLO	159	0.397996	1.31656	0.0223048	0.231026	1	3461 tags=30%, list=22%, signal=38%	0.338807	1.13803	0.197689	0.512409	1	2838 tags=26%, list=18%, signal=32%
PEPTIDE_Receptor_ACTIVITY	49	0.473218	1.31607	0.0807175	0.231697	1	2320 tags=14%, list=14%, signal=17%	0.385273	1.0935	0.298485	0.579598	1	3169 tags=12%, list=20%, signal=15%
GSE24142_DN2_VS_DN3_THMOCYT	176	0.395126	1.31604	0.0263488	0.231256	1	3030 tags=28%, list=19%, signal=35%	0.363294	1.22958	0.0786802	0.385598	1	3273 tags=30%, list=20%, signal=37%
GSE17721_LPS_VS_GARDIQUIMOD_1	172	0.394662	1.31496	0.0272189	0.233091	1	2839 tags=31%, list=18%, signal=37%	0.455991	1.153674	0	0.108843	1	2842 tags=35%, list=18%, signal=43%
GSE3243_MEMORY_VS_NAIVE_CD8	172	0.398276	1.31486	0.0277078	0.238247	1	2578 tags=28%, list=16%, signal=34%	0.28084	0.96586	0.54759	0.775024	1	3350 tags=28%, list=21%, signal=36%
GSE3982_DC_VS_B_CELL_UP	174	0.395618	1.3142	0.0225	0.238354	1	3131 tags=38%, list=20%, signal=47%	0.371736	1.25688	0.0383189	0.347713	1	2592 tags=29%, list=16%, signal=35%
GROWTH_FACTOR_ACTIVITY	52	0.460684	1.31418	0.0916905	0.233359	1	3093 tags=17%, list=19%, signal=21%	0.434963	1.125361	0.130564	0.354088	1	4882 tags=29%, list=30%, signal=41%
GSE37416_OH_VS_3H_F_TULARENSIS	177	0.394006	1.31393	0.0217654	0.233408	1	3108 tags=33%, list=19%, signal=41%	0.344331	1.16263	0.157178	0.477986	1	2570 tags=29%, list=16%, signal=34%
GSE30083_SP1_VS_SP4_THMOCYTE	176	0.395785	1.31345	0.0336943	0.233998	1	3043 tags=31%, list=19%, signal=38%	0.404181	1.136431	0.0125	0.221597	1	2249 tags=22%, list=14%, signal=25%
GSE17721_LPS_VS_GARDIQUIMOD_8	182	0.39078	1.31302	0.0204819	0.234434	1	2648 tags=24%, list=16%, signal=28%	0.334392	1.14129	0.166061	0.509245	1	2571 tags=21%, list=16%, signal=25%
GSE1460_CD4_THMOCYTE_VS_NAIV	179	0.393664	1.31301	0.0328068	0.233								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE360_L_DONOVANI_VS_B_MALAYI	181	0.389204	1.30397	0.0244798	0.2428	1	3131 tags=33%, list=20%, signal=41%	0.392945	1.34299	0.0148883	0.248201	1	2389 tags=23%, list=15%, signal=27%
GSE17721_POLYIC_VS_GARDIQUIMOI	171	0.392895	1.30307	0.0293758	0.24458	1	3131 tags=30%, list=20%, signal=37%	0.397731	1.32116	0.0213568	0.26691	1	3778 tags=35%, list=24%, signal=45%
GSE14769_UNSTM_VS_240MIN_LPS	178	0.391494	1.30291	0.032967	0.244432	1	2867 tags=32%, list=18%, signal=39%	-0.305786	-1.18649	0.040201	0.442186	1	2437 tags=28%, list=15%, signal=32%
REGULATION_OF_GROWTH	55	0.460483	1.30238	0.0839161	0.245089	1	1922 tags=20%, list=12%, signal=23%	0.443402	1.27766	0.105644	0.314553	1	2667 tags=29%, list=17%, signal=35%
GSE17974_CTRL_VS_ACT_IIL4_AND_A	156	0.402274	1.30177	0.03375	0.246051	1	2082 tags=25%, list=13%, signal=28%	0.384082	1.15107	0.179423	0.491222	1	2248 tags=26%, list=14%, signal=30%
GSE17721_05H_VS_12H_CPG_BMDM	181	0.387752	1.30136	0.0369458	0.246569	1	2934 tags=29%, list=18%, signal=35%	0.276191	0.932276	0.636139	0.807512	1	2391 tags=20%, list=15%, signal=23%
GSE17721_CTRL_VS_GARDIQUIMOD	177	0.394029	1.30129	0.034689	0.246245	1	3280 tags=33%, list=20%, signal=41%	0.255448	0.862402	0.807547	0.899328	1	3129 tags=25%, list=19%, signal=31%
POSITIVE_REGULATION_OF_PHOSPHC	24	0.257256	1.3009	0.136086	0.246668	1	3093 tags=38%, list=19%, signal=46%	0.392092	0.96738	0.505512	0.776605	1	1415 tags=25%, list=9%, signal=27%
PEPTIDYL_TYROSINE_MODIFICATION	27	0.513767	1.30046	0.11254	0.247188	1	3093 tags=33%, list=19%, signal=41%	-0.331398	-0.93039	0.548295	0.799552	1	2105 tags=30%, list=13%, signal=34%
NEGATIVE_REGULATION_OF_DEVELO	180	0.387752	1.29944	0.0297767	0.249116	1	3607 tags=33%, list=22%, signal=42%	0.372947	1.26843	0.0448319	0.330488	1	3009 tags=27%, list=19%, signal=33%
INTERPHASE	61	0.447039	1.29938	0.0840456	0.248755	1	2883 tags=36%, list=18%, signal=44%	0.470171	1.3918	0.03125	0.198995	1	2667 tags=41%, list=17%, signal=49%
M_PHASE_OFMITOTIC_CELL_CYCLE	75	0.435466	1.29935	0.0627675	0.24833	1	4032 tags=51%, list=25%, signal=67%	0.464255	1.40759	0.0348675	0.184325	1	3068 tags=44%, list=19%, signal=54%
GROWTH_FACTOR_BINDING	27	0.513256	1.29926	0.118462	0.248035	1	2333 tags=33%, list=15%, signal=39%	0.454823	1.1507	0.266254	0.490801	1	2667 tags=41%, list=17%, signal=49%
GSE22886_NAIVE_CD4_TCELL_VS_12I	180	0.38972	1.29918	0.0345253	0.247747	1	2982 tags=30%, list=19%, signal=36%	0.375897	1.27875	0.045283	0.315108	1	3093 tags=32%, list=19%, signal=39%
GSE26669_CTRL_VS_COSTIM_BLOCK	176	0.394695	1.29892	0.0277778	0.247983	1	2957 tags=32%, list=18%, signal=39%	0.285381	0.96734	0.55198	0.776217	1	3137 tags=31%, list=20%, signal=38%
GSE360_CTRL_VS_B_MALAYI_LOW_D	176	0.390703	1.29706	0.0346475	0.251995	1	2635 tags=22%, list=16%, signal=26%	-0.250716	-0.989038	0.458537	0.67652	1	1455 tags=14%, list=9%, signal=15%
GSE17721_CPG_VS_GARDIQUIMOD	181	0.386565	1.29705	0.0456227	0.251489	1	3419 tags=34%, list=21%, signal=42%	0.291086	0.987207	0.492044	0.752314	1	2533 tags=22%, list=16%, signal=26%
GSE360_DC_VS_MACL_DONOVANI	184	0.38786	1.29681	0.0331695	0.251617	1	3229 tags=34%, list=20%, signal=42%	0.337159	1.14288	0.163391	0.506323	1	2229 tags=24%, list=14%, signal=28%
INFLAMMATORY_RESPONSE	119	0.40373	1.2967	0.0471338	0.251336	1	2783 tags=27%, list=17%, signal=32%	0.333731	1.08156	0.280263	0.601456	1	1805 tags=18%, list=11%, signal=20%
RAS_GTPASE_BINDING	20	0.537626	1.29621	0.11838	0.25201	1	3054 tags=35%, list=19%, signal=43%	-0.278135	-0.728511	0.895722	0.994373	1	4122 tags=40%, list=26%, signal=54%
GSE9006_HEALTHY_VS_TYPE_1_DIA	166	0.39139	1.29584	0.0363636	0.252472	1	2975 tags=34%, list=19%, signal=42%	0.308473	1.0408	0.359494	0.681946	1	2873 tags=27%, list=18%, signal=32%
GSE17974_05H_VS_72H_UNTREATED	170	0.392008	1.29567	0.0326877	0.252428	1	2764 tags=32%, list=17%, signal=39%	0.401312	1.35346	0.0133657	0.238663	1	3302 tags=42%, list=21%, signal=52%
GSE17721_LPS_VS_CPG_4H_BMDM_I	173	0.389661	1.29565	0.0423729	0.251959	1	3387 tags=36%, list=21%, signal=42%	0.313502	1.06304	0.321033	0.638723	1	3540 tags=30%, list=22%, signal=38%
GSE17721_LPS_VS_PAM3CSK4_BH_BI	183	0.388646	1.29557	0.0432099	0.251659	1	2742 tags=27%, list=17%, signal=32%	0.340067	1.15624	0.14931	0.48723	1	2457 tags=25%, list=15%, signal=29%
GSE9006_MONTH_VS_4MONTH_PO	172	0.388151	1.29459	0.0314389	0.253356	1	3438 tags=35%, list=21%, signal=44%	0.27489	0.938137	0.60101	0.801209	1	3681 tags=28%, list=23%, signal=37%
GSE13484_12H_VS_3H_YF17D_VACCI	173	0.391872	1.29428	0.0300752	0.25361	1	3405 tags=34%, list=21%, signal=43%	0.303572	1.02397	0.393564	0.703959	1	3005 tags=23%, list=19%, signal=28%
REGULATION_OF_CELL_GROWTH	43	0.475802	1.29421	0.111111	0.253306	1	1922 tags=23%, list=12%, signal=26%	0.482159	1.35873	0.0824427	0.232018	1	2667 tags=33%, list=17%, signal=39%
INTERPHASE_OFMITOTIC_CELL_CYCL	57	0.452843	1.29407	0.0878661	0.253172	1	2883 tags=37%, list=18%, signal=45%	0.471248	1.38515	0.0328571	0.198181	1	2667 tags=42%, list=17%, signal=50%
GSE25087_TREG_VS_TCONV_ADULT	171	0.386787	1.29373	0.0369004	0.253562	1	3178 tags=36%, list=20%, signal=45%	0.29974	0.998796	0.468323	0.742229	1	3200 tags=30%, list=20%, signal=38%
GSE17721_PAM3CSK4_VS_CPG_1H_B	177	0.393576	1.29275	0.0297974	0.255446	1	2570 tags=27%, list=16%, signal=32%	0.360576	1.20618	0.08625	0.421905	1	2514 tags=24%, list=16%, signal=28%
UNFOLDED_PROTEIN_BINDING	37	0.481581	1.29294	0.106447	0.255733	1	3660 tags=38%, list=23%, signal=49%	0.358752	1.45394	0.0452489	0.149935	1	3480 tags=54%, list=22%, signal=69%
GSE10239_MEMORY_VS_KLRG1HIGH	172	0.390012	1.29217	0.0318627	0.255817	1	3945 tags=37%, list=25%, signal=49%	0.32846	1.10347	0.24125	0.555387	1	3082 tags=33%, list=19%, signal=40%
GSE13411_NAIVE_IGM_MEMORY	174	0.387388	1.29161	0.0355828	0.256669	1	2964 tags=31%, list=18%, signal=38%	0.460612	1.54056	0	0.109221	1	3510 tags=36%, list=22%, signal=46%
GSE20366_CD103_POS_VS_NEG_TRE	172	0.386937	1.29158	0.035109	0.256263	1	2585 tags=20%, list=16%, signal=23%	0.288121	0.970268	0.54399	0.774005	1	3046 tags=18%, list=19%, signal=22%
GSE37416_CTRL_VS_12H_F_TULAREN	175	0.389389	1.29123	0.0375587	0.256634	1	3708 tags=37%, list=23%, signal=48%	-0.293363	-1.13267	0.0789474	0.474978	1	2218 tags=27%, list=14%, signal=31%
GSE17721_PAM3CSK4_VS_GARDIQUIMOD	178	0.386039	1.29109	0.0300073	0.256424	1	3296 tags=26%, list=21%, signal=32%	0.386367	1.30125	0.0308789	0.284338	1	1610 tags=18%, list=10%, signal=20%
GSE8515_CTRL_VS_IL6_H_STIM_MA	165	0.392704	1.29103	0.0419753	0.256076	1	3096 tags=32%, list=19%, signal=39%	0.245463	0.8259	0.880952	0.930449	1	3627 tags=28%, list=23%, signal=36%
GSE9984_LOW_LPS_VS_ANTI_TREM1	165	0.391855	1.29098	0.033121	0.255726	1	3673 tags=38%, list=23%, signal=48%	-0.2750689	-1.03954	0.324201	0.602416	1	1692 tags=19%, list=11%, signal=21%
GSE17721_05H_VS_8H_GARDIQUIM	174	0.390211	1.29049	0.0392157	0.256472	1	2520 tags=28%, list=16%, signal=33%	0.36894	1.23487	0.0744417	0.383218	1	3290 tags=34%, list=20%, signal=43%
GSE24142_ADULT_VS_FETAL_EARLY	170	0.388449	1.28994	0.0276775	0.25735	1	3323 tags=31%, list=21%, signal=39%	-0.301181	-1.11969	0.166667	0.493855	1	2853 tags=31%, list=18%, signal=38%
GSE25087_CTRL_VS_TCONV_FETUS_I	170	0.390811	1.28919	0.0378973	0.258726	1	2174 tags=26%, list=14%, signal=30%	0.275196	0.927553	0.626238	0.81662	1	1804 tags=18%, list=11%, signal=20%
GSE10325_LUPUS_CD4_TCELL_VS_LU	148	0.393464	1.28888	0.0407911	0.259015	1	3297 tags=39%, list=21%, signal=48%	0.365138	1.20357	0.114213	0.426292	1	2609 tags=31%, list=16%, signal=37%
GSE37416_12H_VS_48H_F_TULAREN	177	0.386681	1.28879	0.0373945	0.25882	1	3882 tags=45%, list=24%, signal=58%	-0.314068	-1.20205	0.0490196	0.428432	1	1841 tags=27%, list=11%, signal=30%
REGULATION_OF_BINDING	52	0.452622	1.28873	0.0985507	0.258505	1	2597 tags=35%, list=16%, signal=41%	0.460058	1.30798	0.0868307	0.274432	1	3560 tags=37%, list=22%, signal=47%
REGULATION_OF_PROTEIN_MODIFIC	42	0.472081	1.28871	0.114504	0.25807	1	4057 tags=40%, list=25%, signal=54%	0.468617	1.31561	0.0906389	0.271993	1	2837 tags=36%, list=18%, signal=43%
REGULATION_OF_CELLULAR_PROTEIN	151	0.393767	1.28805	0.0440636	0.259145	1	3461 tags=31%, list=22%, signal=39%	0.348718	1.14427	0.17744	0.502897	1	2838 tags=27%, list=18%, signal=33%
GSE3982_DC_VS_TH1_DN	180	0.390641	1.28795	0.0505415	0.258887	1	2025 tags=22%, list=13%, signal=29%	0.493295	1.674	0	0.0501848	0.793	3640 tags=46%, list=23%, signal=58%
MITOSIS	72	0.43461	1.28755	0.063772	0.259404	1	4032 tags=50%, list=25%, signal=66%	0.462198	1.41348	0.0200573	0.175946	1	3068 tags=43%, list=19%, signal=53%
ANATOMICAL_STRUCTURE_FORMATI	49	0.457305	1.28729	0.10365	0.259591	1	2077 tags=22%, list=13%, signal=26%	-0.297359	-0.940626	0.574468	0.777007	1	2898 tags=27%, list=18%, signal=32%
GSE27786_NKTCELL_VS_ERYTHROBLA	175	0.389554	1.28689	0.0385078	0.260109	1	2405 tags=19%, list=15%, signal=22%	0.271297	0.912921	0.673569	0.835676	1	2802 tags=17%, list=17%, signal=20%
GSE20715_OH_VS_6H_OZONE_LUNG	182	0.382495	1.28664	0.0313631	0.260247	1	2195 tags=23%, list=14%, signal=26%	0.265732	0.894148	0.742683	0.86514	1	3350 tags=25%, list=21%, signal=31%
GSE12845_NAIVE_VS_PRE_GCTONS	183	0.385149	1.28656	0.0302663	0.259949	1	2854 tags=27%, list=18%, signal=33%	0.427903	1.44745	0.00251256	0.154662	1	2582 tags=28%, list=16%, signal=33%
GSE7852_LN_VS_THYMUS_TREG_DN	178	0.389781	1.28583	0.0450657	0.261225	1	2013 tags=22%, list=13%, signal=25%	0.34602	1.17379	0.141074	0.457617	1	2235 tags=24%, list=18%, signal=27%
GSE17580_TREG_VS_TEFF_S_MANSO	179	0.388017	1.28566	0.04474	0.261198	1	3179 tags=34%, list=20%, signal=41%	0.344109	1.16323	0.133085	0.478308	1	3364 tags=36%, list=21%, signal=45%
GSE9037_WT_VS_IRAK4_KO_BMDM	172	0.384445	1.28497	0.0375974	0.262459	1	2595 tags=23%, list=16%, signal=27%	0.360923	1.20885	0.0934343	0.418262	1	2792 tags=26%, list=17%, signal=31%
GSE7469_CD4_TCELL_VS_TREG_ACT	174	0.386093	1.28327	0.0416667	0.266203	1	2576 tags=28%, list=16%, signal=33%	0.32214	1.08599	0.277919	0.593548	1	3122 tags=28%, list=19%, signal=35%
PROTEIN_KINASE_REGULATOR_ACTIV	36	0.483304	1.28209	0.122862	0.268683	1	1781 tags=25%, list=11%, signal=28%	0.440985	1.18966	0.190994	0.441442	1	2830 tags=28%, list=18%, signal=34%
GSE24142_EARLY_THYMIC_PROGENIT	171	0.387723	1.28121										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE13306_RA_VS_UNTREATED_TREG	167	0.383416	1.27283	0.0351942	0.280559	1	3222 tags=29%, list=20%, signal=36%	0.322584	1.08419	0.26799	0.597585	1	2899 tags=23%, list=18%, signal=28%
GSE20366_CD103_POS_VS_NEG_TREI	166	0.388008	1.27276	0.0532688	0.280217	1	2187 tags=19%, list=14%, signal=21%	-0.323929	-1.23529	0.016129	0.384667	1	2056 tags=22%, list=13%, signal=25%
GSE17721_LPS_VS_GARDIQUIMOD_8	178	0.381183	1.27213	0.0414201	0.281391	1	3241 tags=31%, list=20%, signal=38%	0.280662	0.953885	0.574522	0.782093	1	1643 tags=15%, list=10%, signal=16%
GSE7852_TREG_VS_TCONV_FAT_DN	176	0.382088	1.27194	0.0380368	0.281421	1	2648 tags=29%, list=16%, signal=34%	0.301073	1.02519	0.419493	0.702213	1	2661 tags=26%, list=17%, signal=30%
GSE17721_CPG_VS_GARDIQUIMOD_	180	0.381915	1.27185	0.0393604	0.28116	1	2808 tags=23%, list=17%, signal=28%	0.352281	1.19213	0.113208	0.436034	1	2740 tags=19%, list=17%, signal=23%
GSE15659_RESTING_VS_ACTIVATED_	167	0.383798	1.27161	0.0556256	0.281348	1	3010 tags=19%, list=19%, signal=33%	0.256115	0.860974	0.80273	0.89816	1	3325 tags=26%, list=21%, signal=33%
GSE29615_CTRL_VS_LAIV_FLU_VACCI	153	0.386985	1.27145	0.0586035	0.281207	1	3373 tags=31%, list=21%, signal=39%	0.323878	1.0819	0.296389	0.601902	1	2829 tags=22%, list=18%, signal=26%
GSE17721_LPS_VS_POLYIC_BHD	180	0.381844	1.27112	0.0414201	0.281551	1	2917 tags=27%, list=18%, signal=33%	0.357617	1.20156	0.102941	0.427829	1	2893 tags=28%, list=18%, signal=34%
GSE15251_CD2_POS_VS_NEG_PDC_U	153	0.388473	1.27109	0.0482077	0.281152	1	2670 tags=22%, list=17%, signal=26%	0.362616	1.20823	0.091024	0.419088	1	2609 tags=20%, list=16%, signal=24%
GSE20715_WT_VS_TUR4_KO_48H_O2	174	0.382964	1.2701	0.0505549	0.283271	1	2841 tags=24%, list=18%, signal=28%	0.333471	1.12785	0.19598	0.530431	1	2415 tags=24%, list=15%, signal=27%
GSE3982_NEUTROPHIL_VS_BASOPHIL	167	0.382279	1.26811	0.0573871	0.288261	1	3056 tags=31%, list=19%, signal=37%	0.34224	1.14039	0.188679	0.510182	1	1988 tags=18%, list=12%, signal=20%
GSE17721_05_VS_12H_POLYIC_BM	178	0.384447	1.26742	0.053616	0.289589	1	2720 tags=27%, list=17%, signal=33%	-0.24778	-0.952911	0.65	0.762643	1	2195 tags=22%, list=14%, signal=25%
GSE15930_NAIVE_VS_48H_IN_VITRO	183	0.377399	1.26647	0.0550122	0.291758	1	3276 tags=31%, list=20%, signal=39%	0.484283	1.64089	0	0.0680514	0.917	2790 tags=38%, list=17%, signal=45%
MITOCHONDRIAL_TRANSPORT	18	0.540529	1.26588	0.150974	0.292853	1	2268 tags=33%, list=14%, signal=39%	0.651211	1.48606	0.0301109	0.137713	1	1994 tags=39%, list=12%, signal=44%
NEURONAL_DEVELOPMENT	55	0.438859	1.26579	0.132102	0.292558	1	766 tags=13%, list=5%, signal=13%	0.335602	0.987079	0.466113	0.752249	1	937 tags=9%, list=6%, signal=10%
GSE17721_05H_VS_12H_LPS_BMDM	180	0.3799	1.26565	0.0542823	0.29244	1	2816 tags=26%, list=18%, signal=31%	-0.281954	-1.08246	0.184615	0.543308	1	3414 tags=33%, list=21%, signal=42%
REGULATION_OF_ANATOMICAL_STRU	23	0.517498	1.26511	0.148499	0.293376	1	2348 tags=30%, list=15%, signal=36%	0.398288	0.986346	0.48189	0.750077	1	4330 tags=39%, list=27%, signal=54%
GSE24634_TREG_VS_TCONV_POST_D	163	0.383197	1.26428	0.0642317	0.295128	1	3131 tags=36%, list=20%, signal=44%	-0.286051	-1.08656	0.204082	0.541455	1	2515 tags=30%, list=16%, signal=35%
GSE36476_CTR_VS_TSST_ACT_16H	182	0.38295	1.26359	0.0481481	0.296517	1	3163 tags=35%, list=20%, signal=43%	0.416343	1.40642	0.00609013	0.18483	1	3987 tags=48%, list=25%, signal=64%
GSE360_L_DONOVANI_VS_L_MAJOR	176	0.378665	1.26251	0.0423412	0.29893	1	2277 tags=22%, list=14%, signal=26%	0.364098	1.22014	0.0902256	0.404946	1	1546 tags=15%, list=10%, signal=16%
GSE28237_EARLY_VS_LATE_GC_BCEL	176	0.382551	1.26238	0.0501223	0.29877	1	2584 tags=20%, list=16%, signal=23%	-0.262109	-1.00198	0.430052	0.652114	1	2806 tags=20%, list=17%, signal=24%
GSE360_DC_VS_MAC_B_MALAYI_HIG	176	0.382453	1.26198	0.0472727	0.299351	1	2709 tags=28%, list=17%, signal=33%	0.396907	1.33509	0.0179257	0.2555663	1	3199 tags=34%, list=20%, signal=42%
ANGIOGENESIS	42	0.453524	1.26185	0.106667	0.299183	1	2077 tags=24%, list=13%, signal=27%	-0.298209	-0.946176	0.534328	0.765933	1	2898 tags=29%, list=18%, signal=35%
RESPONSE_TO_ENDOGENOUS_STIMUL	185	0.377205	1.26168	0.0610048	0.299138	1	3194 tags=28%, list=20%, signal=35%	0.34753	1.18511	0.127551	0.445744	1	2642 tags=30%, list=16%, signal=36%
GSE17721_CTRL_VS_GARDIQUIMOD	178	0.374663	1.2615	0.0383234	0.299168	1	3073 tags=23%, list=19%, signal=28%	0.367903	1.25146	0.0556242	0.357082	1	2889 tags=29%, list=18%, signal=35%
NEURONAL_APOPTOSIS	15	0.56242	1.26134	0.147458	0.299101	1	3450 tags=53%, list=21%, signal=68%	0.427349	0.952647	0.523569	0.784189	1	1994 tags=20%, list=12%, signal=23%
GSE15930_STIM_VS_STIM_AND_TRIC	173	0.379847	1.26119	0.0533499	0.298985	1	3129 tags=21%, list=19%, signal=26%	0.357708	1.20201	0.108586	0.426946	1	3094 tags=24%, list=19%, signal=29%
GSE9988_ANTI TREM1_VS_LPS_MON	167	0.378113	1.26099	0.0629454	0.299039	1	3673 tags=39%, list=23%, signal=50%	-0.249959	-0.9603	0.609137	0.746815	1	2981 tags=28%, list=19%, signal=34%
DEFENSE_RESPONSE	226	0.37082	1.26092	0.0406977	0.298724	1	3327 tags=31%, list=21%, signal=39%	0.342762	1.18054	0.110458	0.44962	1	3215 tags=27%, list=20%, signal=34%
CELL_CYCLE_ARREST_GO_0007050	52	0.441232	1.26085	0.10472	0.298416	1	2692 tags=31%, list=17%, signal=37%	0.372908	1.07143	0.343931	0.621589	1	2549 tags=27%, list=16%, signal=32%
DOUBLE_STRAND_BREAK_REPAIR	23	0.502913	1.25989	0.156051	0.300306	1	2692 tags=35%, list=17%, signal=42%	0.349488	0.872248	0.669381	0.891411	1	3135 tags=43%, list=20%, signal=54%
GSE3982_DC_VS_EFF_MEMORY_CD4	176	0.380166	1.25981	0.0526961	0.30021	1	3153 tags=34%, list=20%, signal=41%	0.291302	0.978954	0.524652	0.762398	1	2420 tags=23%, list=15%, signal=27%
GSE3982_EOSINOPHIL_VS_MAST_CEL	167	0.380741	1.25895	0.0600024	0.302212	1	3405 tags=28%, list=21%, signal=35%	0.234742	0.786197	0.944584	0.967064	1	3014 tags=19%, list=19%, signal=23%
CATION_CHANNEL_ACTIVITY	100	0.393942	1.25875	0.0766129	0.302235	1	2735 tags=100%, list=17%, signal=20%	0.407914	1.30181	0.0485021	0.284396	1	4126 tags=26%, list=26%, signal=35%
GSE7764_NKCELL_VS_SPLENOCYTE_D	179	0.376311	1.2587	0.0341048	0.301894	1	2386 tags=28%, list=15%, signal=32%	0.324744	1.10385	0.239558	0.555677	1	2854 tags=28%, list=18%, signal=34%
CELL_PROJECTION	99	0.406021	1.25869	0.0745098	0.301425	1	2235 tags=20%, list=14%, signal=23%	0.406613	1.28639	0.0531335	0.306585	1	3993 tags=31%, list=25%, signal=41%
GSE22886_DC_VS_MONOCYTE_UP	174	0.380259	1.25862	0.0504020	0.301112	1	2469 tags=28%, list=15%, signal=32%	0.456003	1.55154	0	0.103317	1	3350 tags=40%, list=21%, signal=50%
GSE22786_LSK_VS_ERYTHROBLAST_D	164	0.381977	1.25839	0.0679612	0.301261	1	1480 tags=13%, list=9%, signal=14%	0.261747	0.884077	0.746851	0.875125	1	3517 tags=20%, list=22%, signal=25%
GSE17721_PAM3CSK4_8h	171	0.380301	1.25811	0.0669145	0.301493	1	2826 tags=25%, list=18%, signal=29%	0.286444	0.961506	0.568123	0.774395	1	3164 tags=25%, list=20%, signal=31%
GSE13411_IGM_VS_SWITCHED_MEM	165	0.378119	1.25801	0.0631068	0.301241	1	3001 tags=30%, list=19%, signal=36%	-0.303536	-1.16312	0.0646766	0.466148	1	2229 tags=29%, list=14%, signal=33%
GSE3982_BASOPHIL_VS_NKCELL_UP	161	0.380255	1.25771	0.0531401	0.301585	1	3028 tags=29%, list=19%, signal=36%	0.295921	0.985152	0.498753	0.751156	1	3107 tags=29%, list=19%, signal=35%
PROTEIN_SERINE_THREONINE_PHOS	20	0.258439	1.25734	0.166932	0.302051	1	2123 tags=40%, list=13%, signal=46%	-0.440629	-1.12991	0.282722	0.47773	1	3671 tags=50%, list=23%, signal=65%
SH3_SH2_ADAPTOR_ACTIVITY	40	0.464533	1.25692	0.128593	0.302717	1	2792 tags=40%, list=17%, signal=48%	0.39798	1.09462	0.323442	0.573383	1	2362 tags=30%, list=15%, signal=35%
GSE17721_CTRL_VS_PAM3CSK4_12H	175	0.376829	1.25682	0.0599592	0.308047	1	3276 tags=28%, list=20%, signal=35%	0.299977	1.00714	0.43609	0.732645	1	3210 tags=25%, list=20%, signal=30%
ION_BINDING	238	0.364676	1.25641	0.0539273	0.309731	1	2885 tags=22%, list=18%, signal=27%	0.265096	0.91827	0.678188	0.83118	1	3330 tags=24%, list=21%, signal=29%
GSE17721_4_VL_24H_GARDIQUIMOL	182	0.373622	1.25533	0.0584653	0.310876	1	2968 tags=27%, list=18%, signal=33%	0.3426203	1.16578	0.129697	0.472639	1	2923 tags=29%, list=18%, signal=35%
GSE17721_LPS_VS_PAM3CSK4_1H_BI	176	0.375588	1.25511	0.0581948	0.311501	1	2528 tags=24%, list=16%, signal=28%	0.427348	1.44533	0.002442	0.157068	1	2903 tags=32%, list=18%, signal=38%
NEGATIVE_REGULATION_OF_GROWTH	39	0.459843	1.25311	0.132353	0.311	1	1922 tags=21%, list=12%, signal=23%	0.408859	1.1128	0.299848	0.546827	1	2667 tags=28%, list=17%, signal=34%
GSE24634_I4L_VS_CTRL_TREATED_N	168	0.378499	1.25155	0.0679245	0.314989	1	2529 tags=23%, list=16%, signal=27%	0.4009	1.34559	0.0173913	0.247379	1	2275 tags=26%, list=14%, signal=30%
IDENTICAL_PROTEIN_BINDING	276	0.365334	1.25139	0.0417607	0.314945	1	2794 tags=24%, list=17%, signal=28%	0.323828	1.13208	0.176196	0.521136	1	2571 tags=22%, list=16%, signal=25%
GSE29615_CTRL_VS_DAY7_LAIV_FLU	140	0.38457	1.25125	0.075641	0.314853	1	962 tags=12%, list=6%, signal=13%	0.430832	1.42422	0.00256739	0.168573	1	1708 tags=15%, list=11%, signal=17%
DEPHOSPHORYLATION	60	0.430365	1.25085	0.128492	0.315475	1	2123 tags=30%, list=13%, signal=34%	0.269025	0.795511	0.841079	0.959826	1	4072 tags=35%, list=25%, signal=47%
GSE22786_CELL_VS_CD8_TCELL_UP	177	0.376222	1.25062	0.0484262	0.315638	1	2863 tags=29%, list=18%, signal=35%	0.341965	1.15509	0.152625	0.486315	1	3033 tags=33%, list=19%, signal=41%
GSE17721_PAM3CSK4_VS_CPG_16H	170	0.37426	1.25052	0.054678	0.315391	1	2698 tags=25%, list=17%, signal=30%	-0.255362	-0.97819	0.535714	0.703039	1	2131 tags=21%, list=13%, signal=23%
SYNAPSE	23	0.504885	1.25025	0.161137	0.315617	1	1055 tags=22%, list=7%, signal=23%	0.598915	1.46461	0.0409165	0.146684	1	1208 tags=17%, list=8%, signal=19%
GSE9988_ANTI TREM1_VS_LOW_LPS	171	0.374987	1.24984	0.0539216	0.316283	1	3673 tags=37%, list=23%, signal=48%	0.286645	0.972758	0.53607	0.771687	1	2203 tags=19%, list=14%, signal=22%
NERVOUS_SYSTEM_DEVELOPMENT	345	0.356299	1.24916	0.0297685	0.317702	1	3763 tags=23%, list=23%, signal=30%	0.289654	1.03379	0.372483	0.691473	1	3283 tags=16%, list=20%, signal=20%
REGULATION_OF_PROTEIN_AMINO_J	29	0.485761	1.24903	0.140271	0.317533</td								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE22886_NAIVE_VS_IHG_IGA_MEM	177	0.374613	1.24163	0.0660025	0.327194	1	3132 tags=32%, list=20%, signal=39%	0.388667	1.31186	0.0283251	0.275726	1	2920 tags=34%, list=18%, signal=42%
GSE3982_NEUTROPHIL_VS_NKCELL_L	171	0.374503	1.24147	0.0713422	0.327149	1	3917 tags=42%, list=24%, signal=55%	0.328011	1.10457	0.232843	0.555167	1	2878 tags=32%, list=18%, signal=39%
POSITIVE_REGULATION_OF_RESPONS	36	0.460723	1.24142	0.150228	0.326759	1	2184 tags=31%, list=14%, signal=35%	0.387912	1.05282	0.391437	0.65904	1	1061 tags=17%, list=7%, signal=18%
GSE7460_TCONV_VS_TREG_THYMUS	183	0.371797	1.24083	0.0583232	0.32798	1	3322 tags=36%, list=21%, signal=45%	0.255611	0.864655	0.809762	0.897478	1	3006 tags=25%, list=19%, signal=30%
MONOVALENT_INORGANIC_CATION	84	0.407722	1.24069	0.103022	0.327819	1	3119 tags=24%, list=19%, signal=29%	0.411874	1.28585	0.0695771	0.305155	1	4125 tags=25%, list=26%, signal=33%
GSE7852_TREG_VS_TCONV_THYMUS	182	0.372232	1.23961	0.0647572	0.330471	1	2791 tags=30%, list=17%, signal=36%	0.263206	0.893424	0.745025	0.865199	1	3006 tags=26%, list=19%, signal=31%
NEGATIVE_REGULATION_OF_SIGNAL	33	0.479544	1.23957	0.153251	0.330055	1	2934 tags=42%, list=18%, signal=52%	0.498427	1.32282	0.0952381	0.269236	1	3886 tags=45%, list=24%, signal=60%
GSE17721_LPS_VS_16H_BMD	175	0.372387	1.23954	0.0658683	0.329628	1	2587 tags=25%, list=16%, signal=30%	0.371779	1.2566	0.0401002	0.347827	1	2674 tags=29%, list=17%, signal=34%
GSE17721_POLYIC_VS_CPG_2H_BMD	168	0.375869	1.23953	0.0584577	0.329141	1	3339 tags=28%, list=21%, signal=35%	0.289782	0.973506	0.53325	0.770699	1	2235 tags=20%, list=14%, signal=23%
GSE9988_LOW_LPS_VS_CTRL_TREAT	170	0.373305	1.23943	0.0649819	0.328963	1	3285 tags=34%, list=20%, signal=42%	0.313693	1.05993	0.3	0.643644	1	2474 tags=21%, list=15%, signal=25%
NEURITE_DEVELOPMENT	48	0.442572	1.23938	0.146893	0.328616	1	766 tags=13%, list=5%, signal=13%	0.304135	0.852643	0.717391	0.905245	1	937 tags=8%, list=6%, signal=9%
GSE22786_CD8_TCELL_VS_ERYTHROE	168	0.373967	1.23931	0.0612745	0.328289	1	2620 tags=21%, list=16%, signal=25%	0.249488	0.835555	0.855181	0.919239	1	2777 tags=17%, list=17%, signal=20%
BASAL_LAMINA	18	0.542721	1.23928	0.168026	0.327859	1	2754 tags=33%, list=17%, signal=40%	-0.40875	-1.03044	0.398417	0.610895	1	362 tags=17%, list=2%, signal=17%
RESPONSE_TO_TEMPERATURE_STIMU	15	0.556259	1.23906	0.190397	0.328011	1	1140 tags=27%, list=7%, signal=29%	-0.323613	-0.78174	0.781363	0.99477	1	1817 tags=27%, list=11%, signal=30%
GSE31082_CD4_VS_CD8_SP_THYMOC	170	0.373445	1.23902	0.0659062	0.32763	1	3207 tags=31%, list=20%, signal=39%	0.336265	1.1352	0.190955	0.516436	1	2857 tags=24%, list=18%, signal=28%
POSITIVE_REGULATION_OF_CELL_PR	139	0.375788	1.23844	0.0843829	0.328834	1	4395 tags=31%, list=27%, signal=42%	0.315135	1.042456	0.365979	0.677986	1	2551 tags=22%, list=16%, signal=25%
MAPKKK CASCADE GO_0000165	98	0.399445	1.23836	0.109788	0.328575	1	1822 tags=18%, list=11%, signal=21%	0.31585	0.10238	0.415855	0.727754	1	2452 tags=20%, list=15%, signal=24%
VOLTAGE_GATED_CHANNEL_ACTIVIT	61	0.423108	1.23836	0.113543	0.328085	1	1911 tags=16%, list=12%, signal=19%	0.396229	1.18095	0.17704	0.448833	1	4614 tags=30%, list=29%, signal=41%
GSE29617_CTRL_VS_DAY_TIV_FLU	168	0.372603	1.23829	0.0835381	0.327779	1	2497 tags=27%, list=16%, signal=32%	0.511935	1.72177	0	0.0339847	0.552	2964 tags=43%, list=18%, signal=53%
GSE20366_EN_VIVO_VS_HOMEOSTAT	172	0.378109	1.23782	0.096577	0.328615	1	3067 tags=27%, list=19%, signal=33%	0.359111	1.2237	0.0879802	0.398292	1	3535 tags=28%, list=22%, signal=36%
GSE9988_LPS_VS_LPS_AND_ANTI_TR	171	0.375042	1.23713	0.070529	0.330113	1	3673 tags=37%, list=23%, signal=47%	-0.317387	-1.21482	0.0578947	0.406459	1	2022 tags=25%, list=13%, signal=28%
GSE14350_TREG_IN_IL2RB	177	0.368114	1.23698	0.0844391	0.330067	1	1388 tags=16%, list=9%, signal=18%	0.406769	1.37158	0.0075188	0.21462	1	3300 tags=28%, list=21%, signal=35%
GSE7467_TCONV_VS_TREG_LP_UP	173	0.371742	1.23632	0.0736715	0.331439	1	3098 tags=30%, list=19%, signal=37%	-0.293128	-1.12359	0.131455	0.486805	1	2742 tags=31%, list=17%, signal=37%
PROTEINAEOUS_EXTRACELLULAR_M	79	0.407757	1.23613	0.125344	0.331506	1	3112 tags=20%, list=19%, signal=25%	-0.255302	-0.877544	0.757785	0.908302	1	3497 tags=23%, list=22%, signal=29%
INTRAMOLECULAR_OXIDOREDUCTASI	18	0.536623	1.23586	0.182266	0.331774	1	1180 tags=17%, list=7%, signal=18%	0.55818	1.30321	0.121795	0.284249	1	4875 tags=56%, list=30%, signal=80%
GSE20366_TREE_VS_NAIVE_CD4_TCE	180	0.369123	1.23554	0.0666667	0.332207	1	2358 tags=23%, list=15%, signal=27%	0.262104	0.887315	0.751244	0.872546	1	1859 tags=16%, list=12%, signal=17%
GSE17721_LPS_VS_POLYIC_1H_BMD	177	0.375207	1.23501	0.0777778	0.332271	1	2348 tags=24%, list=15%, signal=28%	0.258361	0.871627	0.808642	0.891088	1	4245 tags=34%, list=26%, signal=46%
GSE14769_UNSTM_VS_60MIN_LPS_I	173	0.371024	1.23495	0.0711701	0.332932	1	2650 tags=34%, list=17%, signal=40%	0.284315	0.953697	0.57888	0.78169	1	3200 tags=28%, list=20%, signal=34%
GSE7460_CTRL_VS_TGFB_TREATED_A	177	0.36799	1.23453	0.076087	0.333697	1	3285 tags=33%, list=20%, signal=41%	0.393142	1.33386	0.0200501	0.258158	1	2777 tags=28%, list=17%, signal=34%
GSE19825_CD24LOW_VS_IL2RA_HI	182	0.369192	1.23428	0.0744811	0.333894	1	3003 tags=31%, list=19%, signal=38%	0.372778	1.26215	0.0407911	0.341638	1	3046 tags=32%, list=19%, signal=40%
ENZYME_REGULATOR_ACTIVITY	291	0.358536	1.23349	0.0421893	0.335825	1	3383 tags=26%, list=21%, signal=32%	0.294032	1.03924	0.335632	0.682089	1	2574 tags=19%, list=16%, signal=23%
GSE26928_EFF_MEMORY_VS_CXCR5	149	0.376736	1.23347	0.0732323	0.33539	1	3378 tags=30%, list=21%, signal=38%	0.518233	1.70405	0	0.0427346	0.649	3991 tags=43%, list=25%, signal=57%
GSE27082_ZH_VS_8H_RR848_STIM_DC	164	0.373831	1.23336	0.0836408	0.335185	1	3421 tags=41%, list=21%, signal=52%	0.410604	1.38103	0.00892857	0.205013	1	2440 tags=32%, list=15%, signal=38%
GSE13306_RA_VS_UNTREATED_TCON	179	0.36809	1.23327	0.0696821	0.334911	1	2626 tags=20%, list=16%, signal=24%	0.243687	0.827289	0.906553	0.929088	1	1895 tags=11%, list=12%, signal=12%
PROTEIN_COMPLEX_BINDING	46	0.449329	1.23312	0.152367	0.334771	1	3615 tags=41%, list=23%, signal=53%	0.434767	1.24036	0.126506	0.376509	1	1725 tags=22%, list=11%, signal=24%
GSE360_T_GONDII_VS_B_MALAYI_HI	179	0.368017	1.2331	0.0755396	0.334317	1	2687 tags=24%, list=17%, signal=29%	0.273576	0.920757	0.665485	0.826663	1	1981 tags=18%, list=12%, signal=20%
GSE22786_CD4_VS_CD8_TCELL_UP	181	0.368776	1.23166	0.0805288	0.338197	1	3869 tags=38%, list=24%, signal=49%	-0.289936	-1.11717	0.139175	0.490819	1	2621 tags=29%, list=16%, signal=35%
REGULATION_OF_CELL_PROLIFERATI	281	0.357252	1.23157	0.0538991	0.337943	1	3144 tags=23%, list=20%, signal=29%	0.294832	1.03929	0.361305	0.682513	1	2551 tags=20%, list=16%, signal=23%
GSE24634_TEFF_VS_TCONV_DAY3_IN	171	0.366959	1.23108	0.0721154	0.338934	1	3153 tags=35%, list=20%, signal=42%	0.284991	0.962647	0.545347	0.772645	1	2025 tags=20%, list=13%, signal=23%
GSE8515_CTRL_VS_IHL_STIM_MA	161	0.371838	1.23097	0.0891566	0.338754	1	3811 tags=31%, list=24%, signal=40%	-0.294226	-1.11899	0.152174	0.49118	1	1905 tags=21%, list=12%, signal=24%
ANATOMICAL_STRUCTURE_MORPHO	329	0.351498	1.2306	0.0332226	0.33932	1	3782 tags=23%, list=24%, signal=30%	0.251702	0.887656	0.808036	0.872088	1	3511 tags=20%, list=22%, signal=25%
GSE2826_XID_VS_BTAK_KO_BCELL_DN	173	0.369666	1.22988	0.0840438	0.341015	1	2562 tags=24%, list=16%, signal=29%	0.34862	1.16276	0.16	0.478775	1	1092 tags=16%, list=7%, signal=17%
GSE17721_12H_VS_24H_GARDIQUIM	181	0.370923	1.22968	0.0661939	0.341135	1	3401 tags=30%, list=21%, signal=38%	0.338454	1.14923	0.173967	0.493671	1	3247 tags=28%, list=20%, signal=35%
POSITIVE_REGULATION_OF_PHOSPH	26	0.494768	1.22938	0.180952	0.341526	1	3093 tags=35%, list=19%, signal=43%	0.373154	0.950557	0.524372	0.787095	1	2701 tags=35%, list=17%, signal=42%
GSE39820_JL18_L16_VS_L1B_L1L2	167	0.374779	1.22937	0.0838396	0.341049	1	3267 tags=28%, list=20%, signal=34%	0.253193	0.854746	0.81381	0.905379	1	4536 tags=32%, list=28%, signal=45%
PROTEIN_FOLDING	52	0.430891	1.22934	0.164265	0.340681	1	2387 tags=27%, list=15%, signal=32%	0.454888	1.30941	0.0772595	0.274426	1	3055 tags=37%, list=19%, signal=45%
GSE360_L_DONOVANI_VS_T_GONDII	178	0.367118	1.22914	0.0863132	0.340746	1	2963 tags=29%, list=18%, signal=35%	0.372666	1.26147	0.0503067	0.340667	1	2879 tags=29%, list=18%, signal=35%
KAECH_DAY15_VS_EFF_MEMORY_CD	173	0.368949	1.2229	0.0820265	0.340643	1	3620 tags=35%, list=23%, signal=44%	0.353782	1.19047	0.125	0.439895	1	2551 tags=29%, list=16%, signal=34%
GSE17721_05H_VS_24H_GARDIQUIN	180	0.367486	1.22868	0.0810811	0.341114	1	2827 tags=26%, list=18%, signal=31%	-0.301882	-1.16646	0.085	0.459088	1	2240 tags=27%, list=14%, signal=31%
GSE17974_L14_AND_ANTI_L12_VS_U	174	0.365554	1.22841	0.0876543	0.341432	1	3087 tags=27%, list=19%, signal=33%	-0.232335	-0.887069	0.835821	0.891682	1	2926 tags=22%, list=18%, signal=27%
GSE17974_CTRL_VS_ACT_L14_AND_A	168	0.367847	1.22817	0.0825123	0.341658	1	2638 tags=27%, list=16%, signal=32%	-0.341367	-1.30419	0.00947867	0.353246	1	3293 tags=38%, list=21%, signal=47%
GSE17721_4H_VS_24H_POLYIC_BMD	175	0.370206	1.22773	0.0741627	0.342519	1	2788 tags=29%, list=17%, signal=35%	-0.279043	-1.06818	0.232804	0.556404	1	2159 tags=23%, list=13%, signal=27%
GSE27786_NEG_VS_CD8_TCELL_I	178	0.366949	1.22704	0.0716846	0.343975	1	2861 tags=31%, list=18%, signal=38%	0.366904	1.23551	0.0711656	0.382453	1	2466 tags=26%, list=15%, signal=30%
GSE17721_POLYIC_VS_GARDIQUIMO	178	0.368323	1.22642	0.0725707	0.345453	1	2722 tags=28%, list=17%, signal=33%	0.386769	1.31432	0.0259901	0.272278	1	2983 tags=29%, list=19%, signal=35%
KAECH_NAIVE_VS_DAY15_EFF_CD8_I	180	0.366513	1.22557	0.0769231	0.347589	1	3132 tags=31%, list=20%, signal=38%	0.339306	1.14042	0.168539	0.511302	1	2926 tags=30%, list=18%, signal=36%
LIPID_CATABOLIC_PROCESS	34	0.466939	1.22551	0.16692	0.347273	1	1139 tags=21%, list=7%, signal=22%	0.4813	1.28265	0.139818	0.30771	1	2309 tags=24%, list=14%, signal=27%
CELLULAR_LIPID_CATABOLIC_PROCES	33	0.473784	1.22458	0.174962	0.349604	1	1139 tags=21%, list=7%, signal=23%	0.482035	1.27578	0.119935	0.31806	1	2309 tags=24%, list=14%, signal=28%
GSE7460_WT_VS_FOXP3_HET_ACT_V	171	0.368146	1.22418										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE17721_LPS_VS_GARDIQUIMOD_2	174	0.366103	1.21584	0.0744811	0.364795	1	3469 tags=30%, list=22%, signal=38%	0.340846	1.14866	0.151292	0.493881	1	2266 tags=25%, list=14%, signal=28%
DNA_DEPENDENT_DNA_REPLICATION	49	0.431888	1.21547	0.161054	0.365507	1	3057 tags=33%, list=19%, signal=40%	0.349938	1.00114	0.453757	0.740223	1	2237 tags=24%, list=14%, signal=28%
GSE17721_POLYIC_VS_GARDIQUIMOI	183	0.363753	1.21531	0.0844391	0.365477	1	3463 tags=32%, list=22%, signal=40%	0.337079	1.14641	0.164366	0.497428	1	3337 tags=32%, list=21%, signal=40%
GSE17721_POLYIC_VS_CPG_6H_BMD	171	0.366912	1.21524	0.0948379	0.365206	1	2698 tags=25%, list=17%, signal=30%	0.292865	0.984084	0.519656	0.752848	1	2567 tags=22%, list=16%, signal=26%
CELLULAR_MACROMOLECULE_CATAB	95	0.392708	1.21508	0.118121	0.365187	1	2092 tags=27%, list=13%, signal=31%	0.315423	0.992184	0.474483	0.750599	1	2247 tags=21%, list=14%, signal=24%
GSE360_HIGH_DOSE_B_MALAYL_VS_I	176	0.36272	1.2147	0.0809816	0.365942	1	2174 tags=23%, list=14%, signal=27%	0.307165	1.03821	0.377029	0.68488	1	2670 tags=27%, list=17%, signal=32%
GSE2706_R848_VS_R848_AND_LPS_8	148	0.373742	1.21425	0.089196	0.366816	1	3373 tags=32%, list=21%, signal=40%	0.286503	0.951327	0.590452	0.785564	1	3108 tags=25%, list=19%, signal=31%
GSE17721_CPG_VS_GARDIQUIMOD_4	176	0.364518	1.21357	0.0866911	0.368435	1	3775 tags=35%, list=24%, signal=46%	0.314598	1.05446	0.339024	0.65674	1	2926 tags=28%, list=18%, signal=34%
GSE17721_0_5H_VS_8H_LPS_BMDM	175	0.365249	1.21247	0.0877193	0.371354	1	2726 tags=25%, list=17%, signal=30%	-0.265508	-1.01984	0.355932	0.62577	1	2181 tags=20%, list=14%, signal=23%
MICROTUBULE_MOTOR_ACTIVITY	15	0.553173	1.21207	0.223317	0.37209	1	3608 tags=53%, list=22%, signal=69%	0.553129	1.25125	0.179572	0.355452	1	3453 tags=53%, list=22%, signal=68%
GTPASE_ACTIVITY	88	0.394792	1.21174	0.142668	0.372688	1	3101 tags=27%, list=19%, signal=34%	0.376018	1.1694	0.165278	0.467235	1	2450 tags=27%, list=15%, signal=32%
GSE10856_CTRL_VS_TNFRSF6B_IN_M	145	0.369057	1.21169	0.0996264	0.372368	1	2915 tags=29%, list=18%, signal=35%	-0.204629	-0.904499	0.74	0.857087	1	2952 tags=28%, list=18%, signal=34%
GSE360_L_DONOVANI_VS_T_GONDII	172	0.365362	1.21094	0.105721	0.374186	1	3120 tags=27%, list=19%, signal=33%	0.37218	1.25143	0.0504414	0.356388	1	2525 tags=23%, list=16%, signal=27%
GSE17721_CTRL_VS_LPS_12H_BMDM	179	0.363226	1.21091	0.0978261	0.373786	1	2728 tags=26%, list=17%, signal=31%	0.262064	0.879661	0.769988	0.882677	1	2957 tags=28%, list=18%, signal=34%
GSE17721_PAMCSK4_VS_CPG_0.5H	182	0.362278	1.21055	0.0840237	0.374439	1	3150 tags=21%, list=20%, signal=26%	0.273021	0.92644	0.664277	0.818574	1	3824 tags=27%, list=24%, signal=36%
GSE29618_LAI_VS_TIV_FLU_VACCIN	178	0.363435	1.21037	0.102815	0.374505	1	2950 tags=29%, list=18%, signal=35%	0.318507	1.05763	0.315789	0.628597	1	1919 tags=21%, list=12%, signal=23%
GSE12845_GD_NEG_BLOOD_VS_PRE	176	0.364559	1.20999	0.0801944	0.375233	1	2358 tags=23%, list=15%, signal=26%	0.329688	1.12666	0.220297	0.546731	1	3286 tags=32%, list=20%, signal=40%
PROGRAMMED_CELL_DEATH	405	0.342642	1.20956	0.0458515	0.376146	1	2502 tags=21%, list=16%, signal=25%	0.336131	1.21103	0.0451045	0.415543	1	3297 tags=29%, list=21%, signal=35%
GSE17721_LPS_VS_POLYC_6H_BMDM	179	0.364296	1.20922	0.0966981	0.376709	1	1761 tags=17%, list=11%, signal=19%	0.287712	0.961194	0.571429	0.774369	1	2953 tags=24%, list=18%, signal=29%
GSE15930_NAIVE_VS_24H_IN_VITRO	181	0.36153	1.20921	0.0961298	0.376208	1	3299 tags=33%, list=21%, signal=41%	0.396011	1.3414	0.0174782	0.250571	1	3362 tags=34%, list=21%, signal=43%
PROTEIN_DOMAIN_SPECIFIC_BINDIN	64	0.415272	1.20895	0.155844	0.376569	1	3615 tags=47%, list=23%, signal=60%	0.308559	0.917429	0.645255	0.832836	1	3560 tags=33%, list=22%, signal=42%
CELL_DIVISION	17	0.259552	1.20802	0.229773	0.378993	1	2809 tags=41%, list=17%, signal=50%	0.632969	1.49157	0.045977	0.135735	1	696 tags=29%, list=4%, signal=31%
GROWTH	72	0.404632	1.20777	0.149441	0.379278	1	2366 tags=19%, list=15%, signal=23%	0.347456	1.04014	0.372881	0.683897	1	2854 tags=25%, list=18%, signal=30%
GSE13411_NAIVE_VS_SWITCHED_ME	166	0.365051	1.20772	0.080292	0.37896	1	2975 tags=30%, list=19%, signal=37%	0.389014	1.31712	0.0233415	0.270218	1	3257 tags=34%, list=20%, signal=43%
NEUROTRANSMITTER_BINDING	48	0.431163	1.20733	0.178947	0.37966	1	1893 tags=13%, list=12%, signal=14%	0.302497	0.863201	0.706408	0.898312	1	4042 tags=19%, list=25%, signal=25%
GSE17974_OH_VS_12H_IN_VITRO_AC	160	0.364651	1.20663	0.103118	0.381405	1	2911 tags=29%, list=18%, signal=36%	0.265226	0.887754	0.73995	0.872313	1	2285 tags=21%, list=14%, signal=25%
METAL_ION_TRANSPORT	102	0.386135	1.20613	0.146175	0.382535	1	3119 tags=24%, list=19%, signal=29%	0.368351	1.17827	0.175	0.451839	1	4125 tags=24%, list=26%, signal=31%
GSE17721_LPS_VS_POLYC_4H_BMDM	185	0.361236	1.20598	0.0953545	0.382546	1	3339 tags=31%, list=21%, signal=39%	0.274529	0.932331	0.658088	0.807846	1	2881 tags=23%, list=18%, signal=27%
DI_TRI_VALENT_INORGANIC_CATIC	18	0.513142	1.20598	0.209106	0.382038	1	1710 tags=33%, list=11%, signal=37%	0.485281	1.1619	0.259868	0.480126	1	1853 tags=28%, list=12%, signal=31%
GSE17721_12H_VS_24H_POLYC_BMI	180	0.365211	1.20587	0.0875912	0.381884	1	3666 tags=27%, list=23%, signal=41%	-0.241385	-0.930481	0.736585	0.800537	1	1489 tags=16%, list=9%, signal=18%
GSE6269_FLU_VS_STREP_AUREUS_IN	145	0.371025	1.20575	0.116603	0.381761	1	3305 tags=28%, list=21%, signal=35%	0.326029	1.08346	0.280941	0.598684	1	3200 tags=26%, list=20%, signal=32%
GSE15659_NAIVE_CD4_TCELL_VS_NC	163	0.366562	1.20498	0.0902349	0.383671	1	4485 tags=33%, list=28%, signal=45%	0.329108	1.10785	0.232472	0.554116	1	2702 tags=20%, list=17%, signal=23%
APOPTOSIS_GO	404	0.341056	1.20463	0.0558598	0.384305	1	2502 tags=21%, list=16%, signal=25%	0.337585	1.21339	0.0438695	0.414352	1	3297 tags=29%, list=21%, signal=36%
GSE37416_CTRL_VS_24H_F_TULARE	177	0.360617	1.20446	0.0919181	0.384367	1	2648 tags=28%, list=16%, signal=33%	0.255268	0.85798	0.822539	0.902225	1	3675 tags=32%, list=23%, signal=41%
GSE15659_NAIVE_VS_PTPRC_NEG_CI	151	0.366476	1.20394	0.107731	0.385541	1	3578 tags=30%, list=22%, signal=38%	0.324773	1.07956	0.28866	0.602829	1	2086 tags=16%, list=13%, signal=18%
GSE18791_CTRL_VS_NEWCASTLE_VIR	161	0.36338	1.20307	0.0966184	0.385816	1	3170 tags=27%, list=20%, signal=34%	0.237194	0.801807	0.93273	0.954127	1	3186 tags=22%, list=20%, signal=28%
GSE3982_BCELL_VS_CENT_MEMORY	159	0.365638	1.20341	0.104551	0.386245	1	3056 tags=30%, list=19%, signal=36%	0.341618	1.13658	0.191781	0.51602	1	2782 tags=31%, list=17%, signal=37%
DNA_REPAIR	116	0.37949	1.20296	0.140701	0.387268	1	3167 tags=30%, list=20%, signal=37%	0.41607	1.35061	0.0186418	0.240382	1	2996 tags=36%, list=19%, signal=44%
GSE360_CTRL_VS_L_DONOVANI_DC	182	0.360451	1.20292	0.101553	0.386889	1	3132 tags=26%, list=20%, signal=32%	0.317207	1.07118	0.303329	0.621959	1	1951 tags=17%, list=12%, signal=19%
GSE17974_OH_VS_1H_IN_VITRO_ACT	173	0.361526	1.20196	0.114391	0.389447	1	2975 tags=34%, list=19%, signal=41%	0.298422	1.00095	0.456853	0.739829	1	4069 tags=36%, list=25%, signal=48%
GSE29618_PDC_VS_MDC_DAY7_FLU	171	0.361209	1.20132	0.0972569	0.391055	1	3425 tags=35%, list=21%, signal=44%	0.388526	1.31091	0.0238394	0.274482	1	1544 tags=25%, list=10%, signal=27%
GSE2706_UNSTIM_VS_2H_R848_DC	158	0.362696	1.20117	0.102628	0.390982	1	3289 tags=33%, list=20%, signal=41%	0.388087	1.28459	0.0426357	0.304958	1	2751 tags=31%, list=17%, signal=37%
TRANSPORT_VESICLE	30	0.468388	1.20111	0.177979	0.390695	1	1539 tags=23%, list=10%, signal=26%	0.338268	0.88496	0.667702	0.874177	1	1797 tags=20%, list=11%, signal=22%
GSE27786_CD8_TCELL_VS_NKCELL_D	170	0.362009	1.20092	0.120098	0.390764	1	3386 tags=34%, list=21%, signal=42%	0.303358	1.02046	0.412639	0.709313	1	3213 tags=31%, list=20%, signal=39%
GSE24124_ADULT_VS_FETAL_DN3_T	171	0.361722	1.2009	0.107905	0.390299	1	2296 tags=22%, list=14%, signal=26%	0.306009	1.03428	0.375	0.691882	1	3042 tags=25%, list=19%, signal=30%
MYELOID_CELL_DIFFERENTIATION	33	0.463344	1.20048	0.207221	0.391138	1	2804 tags=27%, list=17%, signal=33%	-0.488596	-1.40806	0.054755	0.301812	1	1971 tags=33%, list=12%, signal=38%
GSE27786_LSK_VS_BCELL_DN	172	0.364181	1.20041	0.108537	0.390831	1	2889 tags=27%, list=18%, signal=32%	0.278689	0.936539	0.623426	0.80286	1	2091 tags=19%, list=13%, signal=22%
REGULATION_OF_DEVELOPMENTAL_I	409	0.33994	1.2004	0.0522876	0.390354	1	3526 tags=29%, list=22%, signal=37%	0.314537	1.13258	0.12009	0.519806	1	3009 tags=25%, list=19%, signal=30%
CELL_FRACTION	449	0.337767	1.20023	0.04244178	0.390368	1	3230 tags=21%, list=20%, signal=26%	0.321709	1.16516	0.0838852	0.474312	1	3275 tags=23%, list=20%, signal=28%
GSE17721_LPS_VS_PAM3CSK4_8H_BI	179	0.359436	1.20023	0.098692	0.389862	1	3499 tags=32%, list=22%, signal=41%	0.230431	0.777882	0.954377	0.969321	1	3921 tags=35%, list=24%, signal=45%
GSE337_CTRL_VS_16H_IFING_CD	181	0.357766	1.20004	0.109726	0.389931	1	3380 tags=30%, list=21%, signal=37%	0.284529	0.966686	0.531443	0.775318	1	3291 tags=26%, list=21%, signal=32%
CELLULAR_CATABOLIC_PROCESS	193	0.35752	1.19975	0.0900585	0.390423	1	2092 tags=23%, list=13%, signal=26%	0.328743	1.11074	0.203907	0.549738	1	2309 tags=21%, list=14%, signal=24%
GSE27786_CD4_TCELL_VS_ERYTHRO	166	0.365824	1.19958	0.10754	0.390465	1	3059 tags=22%, list=19%, signal=27%	0.250713	0.843239	0.853437	0.911968	1	3532 tags=23%, list=22%, signal=29%
REGULATION_OF_MULTICELLULAR_O	132	0.370264	1.19927	0.131105	0.39099	1	2318 tags=20%, list=14%, signal=23%	0.387567	1.2715	0.0446097	0.326542	1	2891 tags=23%, list=18%, signal=27%
GSE360_CTRL_VS_L_DONOVANI_MAC	175	0.361643	1.19925	0.104369	0.390558	1	2686 tags=24%, list=17%, signal=29%	0.272661	0.917015	0.682692	0.832707	1	3889 tags=33%, list=24%, signal=43%
GSE3982_BCELL_VS_BASOPHIL_DN	169	0.359667	1.19917	0.110701	0.390303	1	2861 tags=27%, list=18%, signal=33%	-0.265709	-1.01543	0.386139	0.625228	1	1843 tags=18%, list=11%, signal=21%
MEMBRANE_BOUND_VESICLE	106	0.378966	1.19911	0.143421	0.390034	1	3142 tags=25%, list=20%, signal=31%	0.41775	1.35242	0.0212766	0.238572	1	3389 tags=35%, list=21%, signal=44%
REGULATION_OF_RESPONSE_TO_STIM	51	0.425503	1.19894	0.181688	0.39005								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

CELLULAR_PROTEIN_CATABOLIC_PRO	51	0.419189	1.19041	0.186391	0.406326	1	3433 tags=45%, list=21%, signal=57%	0.262603	0.767155	0.901903	0.973914	1	3317 tags=25%, list=21%, signal=32%
GSE17721_ALL_VS_24H_PAM3CSK4_I	173	0.357929	1.18988	0.130277	0.407584	1	3365 tags=29%, list=21%, signal=37%	0.294099	1.00424	0.435961	0.738262	1	2297 tags=21%, list=14%, signal=25%
IMMUNE_SYSTEM_PROCESS	286	0.344	1.18946	0.0835267	0.408467	1	3203 tags=28%, list=20%, signal=34%	0.309038	1.08976	0.240506	0.582631	1	2751 tags=27%, list=17%, signal=32%
GSE15659_NAIVE_VS_PTPRC_NEG_CI	171	0.35895	1.18928	0.0963855	0.408555	1	2255 tags=17%, list=14%, signal=20%	0.260706	0.874541	0.774648	0.889347	1	2412 tags=17%, list=15%, signal=20%
GSE339_EX_VIVO_VS_IN_CULTURE_C	182	0.354615	1.18905	0.123926	0.408864	1	4074 tags=39%, list=25%, signal=52%	-0.25617	-0.985775	0.489011	0.68442	1	2505 tags=26%, list=16%, signal=30%
GSE14350_IL2RB_KO_VS_WT_TREG_I	179	0.354697	1.18876	0.110706	0.409384	1	3423 tags=36%, list=21%, signal=46%	0.335428	1.13102	0.195332	0.523252	1	2639 tags=25%, list=16%, signal=29%
GSE17721_CTRL_VS_CPG_24H_BMDM	177	0.360024	1.18868	0.119901	0.409184	1	1995 tags=19%, list=12%, signal=22%	0.357316	1.20483	0.0938272	0.423934	1	3069 tags=26%, list=19%, signal=32%
GSE3982_EFF_NOSINOPHIL_VS_TH1_DN	180	0.359135	1.18674	0.122128	0.412006	1	3867 tags=41%, list=24%, signal=53%	0.432623	1.44922	0.00374065	0.152565	1	3296 tags=39%, list=21%, signal=49%
KAECH_NAIVE_VS_MEMORY_CD8_TC	177	0.356292	1.18673	0.116708	0.411521	1	3113 tags=31%, list=19%, signal=38%	0.408636	1.39009	0.00248447	0.200979	1	3037 tags=33%, list=19%, signal=41%
GSE17974_CTRL_VS_ACT_I4L_AND_A	173	0.35891	1.18627	0.113892	0.412593	1	2110 tags=21%, list=13%, signal=24%	0.253034	0.836251	0.845752	0.918238	1	2998 tags=21%, list=19%, signal=26%
GSE26928_NAIVE_VS_CENT_MEMOR	152	0.365777	1.18619	0.13375	0.412325	1	3134 tags=43%, list=20%, signal=53%	0.51085	1.30961	0.117175	0.274697	1	2891 tags=36%, list=18%, signal=43%
PROTEIN_CATABOLIC_PROCESS	59	0.406086	1.18612	0.172462	0.412072	1	3073 tags=22%, list=19%, signal=27%	0.304772	1.02603	0.400507	0.702361	1	3898 tags=20%, list=24%, signal=27%
GSE30962_ACUTE_VS_CHRONIC_LCM	177	0.356168	1.18599	0.126946	0.411977	1	2852 tags=28%, list=18%, signal=34%	0.31326	1.05594	0.328321	0.653282	1	2659 tags=24%, list=17%, signal=29%
GSE17721_CTRL_VS_LPS_6H_BMDM	176	0.356153	1.18589	0.115621	0.411799	1	3317 tags=33%, list=21%, signal=41%	0.357612	1.19381	0.106487	0.433445	1	2484 tags=26%, list=15%, signal=31%
GSE17721_0.5H_VS_12H_CPG_BMDM	175	0.357213	1.18563	0.110577	0.412152	1	3669 tags=38%, list=23%, signal=49%	0.314312	1.0689	0.299754	0.626615	1	2606 tags=31%, list=16%, signal=36%
GSE1432_1H_VS_6H_FNG_MICROGL	169	0.359848	1.18563	0.126965	0.411658	1	3380 tags=37%, list=21%, signal=46%	0.355155	1.18525	0.121019	0.446609	1	3440 tags=33%, list=21%, signal=41%
GSE9037_CTRL_VS_LPS_1H_STIM_BN	174	0.358338	1.18533	0.123021	0.412175	1	2481 tags=24%, list=15%, signal=28%	0.364618	1.20069	0.103704	0.428161	1	3337 tags=35%, list=21%, signal=44%
GSE360_L_DONOVANI_VS_B_MALAYI	179	0.35582	1.18527	0.113692	0.411895	1	3433 tags=41%, list=21%, signal=52%	-0.247693	-0.806891	0.895307	0.987518	1	3565 tags=37%, list=22%, signal=48%
GSE1794_OH_VS_6H_IN_VITRO_ACT	153	0.362046	1.18468	0.126691	0.413401	1	2630 tags=31%, list=16%, signal=36%	0.264944	-1.023	0.349754	0.623276	1	2584 tags=30%, list=16%, signal=35%
EXCRETION	31	0.450379	1.18443	0.224843	0.413706	1	3004 tags=30%, list=19%, signal=36%	0.306632	1.04634	0.353383	0.672094	1	3419 tags=31%, list=21%, signal=39%
GSE14000_UNSTM_VS_4H_LPS_DC_I	174	0.357814	1.18407	0.120669	0.414351	1	3733 tags=35%, list=23%, signal=45%	0.35068	1.17722	0.132409	0.45376	1	2697 tags=29%, list=17%, signal=35%
GSE11057_EFF_MEM_VS_CENT_MEN	150	0.363677	1.18389	0.134663	0.414413	1	3218 tags=30%, list=20%, signal=37%	0.335723	1.13137	0.192162	0.522596	1	1698 tags=20%, list=11%, signal=22%
GSE8866_SPLEEN_VS_INTESTINE_CD1	175	0.357107	1.18341	0.129584	0.415445	1	2697 tags=26%, list=17%, signal=31%	-0.301099	-1.16004	0.0923913	0.459332	1	2692 tags=30%, list=17%, signal=36%
LIPID_TRANSPORTER_ACTIVITY	21	0.497075	1.18316	0.22335	0.415726	1	1420 tags=24%, list=9%, signal=26%	0.318084	0.769769	0.836834	0.974846	1	2204 tags=24%, list=14%, signal=28%
GSE3982_NEUTROPHIL_VS_TH2_UP	167	0.356087	1.18243	0.129606	0.417551	1	3481 tags=31%, list=22%, signal=30%	0.288083	0.941401	0.598027	0.799717	1	2248 tags=22%, list=14%, signal=25%
PHOSPHOLIPASE_C_ACTIVITY	15	0.527131	1.18227	0.227953	0.417626	1	2852 tags=23%, list=18%, signal=27%	0.306025	0.791944	0.826687	0.963654	1	2241 tags=13%, list=14%, signal=15%
SMALL_GTPASE_MEDiated_SIGNAL_	78	0.393478	1.18217	0.161379	0.417463	1	3186 tags=32%, list=20%, signal=40%	0.269129	0.910289	0.703704	0.83909	1	4194 tags=37%, list=26%, signal=50%
GSE27786_LSK_VS_CDB_TCELL_UP	166	0.355743	1.18161	0.141439	0.418802	1	3183 tags=29%, list=20%, signal=36%	-0.329006	-1.2451	0.0420561	0.384309	1	1938 tags=25%, list=12%, signal=28%
GSE11864_CSF1_VS_CSF1_FNFG_PAM	170	0.356344	1.18124	0.126082	0.419499	1	2975 tags=25%, list=19%, signal=34%	0.349542	1.1728	0.141089	0.459833	1	2484 tags=22%, list=15%, signal=25%
GSE1794_OH_VS_6H_IN_VITRO_ACT	177	0.355314	1.18121	0.122981	0.419108	1	3210 tags=31%, list=20%, signal=38%	0.359783	1.21741	0.0799508	0.407908	1	2831 tags=29%, list=18%, signal=35%
GSE13306_RA_VS_UNTREATED_TREG	174	0.358911	1.18016	0.114078	0.422112	1	3788 tags=33%, list=24%, signal=43%	0.350681	1.18319	0.117186	0.447357	1	3873 tags=32%, list=24%, signal=41%
REGULATION_OF_PROTEIN_SECRETIC	19	0.509754	1.17991	0.251623	0.422429	1	2711 tags=47%, list=17%, signal=57%	0.50364	1.18317	0.226962	0.446751	1	2891 tags=37%, list=18%, signal=45%
GSE27786_LIN_NEG_VS_NKTCELL_UP	167	0.353907	1.17954	0.116193	0.423229	1	2783 tags=28%, list=17%, signal=34%	0.354546	1.20339	0.13553	0.4255	1	2460 tags=23%, list=15%, signal=27%
GSE13493_CD4INTC8POS_VS_CD8POS	178	0.353703	1.17924	0.122449	0.423781	1	2537 tags=22%, list=16%, signal=26%	0.284553	0.966897	0.56282	0.775123	1	2992 tags=24%, list=19%, signal=29%
ORGANELLE_ORGANIZATION_AND_BI	423	0.334826	1.17799	0.0667384	0.427555	1	3266 tags=26%, list=20%, signal=32%	0.312667	1.12904	0.13385	0.527098	1	2993 tags=26%, list=19%, signal=31%
LIPID_TRANSPORT	27	0.463519	1.17798	0.216174	0.427086	1	1420 tags=22%, list=9%, signal=24%	0.32615	0.839515	0.721078	0.914764	1	1440 tags=19%, list=9%, signal=20%
NEGATIVE_REGULATION_OF_TRANSL	22	0.47674	1.17732	0.231496	0.428776	1	2066 tags=27%, list=13%, signal=31%	0.658309	1.63344	0.00938967	0.0645812	0.936	2711 tags=41%, list=17%, signal=49%
GTPase_Regulator_Activity	112	0.370791	1.17696	0.153846	0.429488	1	1364 tags=16%, list=8%, signal=26%	0.267307	0.865076	0.771781	0.89692	1	3935 tags=31%, list=25%, signal=41%
GSE7461_FOXP3_MUT_VS_WT_ACT_	177	0.354006	1.17691	0.147476	0.429136	1	2937 tags=30%, list=18%, signal=36%	0.278601	0.936848	0.630221	0.802407	1	2597 tags=21%, list=16%, signal=25%
GSE3982_BCELL_VS_TH2_UP	151	0.358986	1.17675	0.130208	0.429181	1	2734 tags=25%, list=17%, signal=29%	0.312628	1.04258	0.367056	0.678492	1	2893 tags=30%, list=18%, signal=36%
GSE17721_0.5H_VS_8H_PAM3CSK4_I	173	0.35561	1.17664	0.123153	0.429044	1	2173 tags=21%, list=14%, signal=24%	0.311637	1.05	0.349939	0.66392	1	2247 tags=22%, list=14%, signal=25%
GSE27786_LSK_VS_MONO_MAC_DN	177	0.356713	1.17662	0.138686	0.428581	1	2122 tags=18%, list=13%, signal=21%	0.276619	0.934081	0.636248	0.806214	1	2476 tags=20%, list=15%, signal=24%
PROTEIN_AMINO_ACID_DEPHOSPHOI	53	0.422693	1.17587	0.188902	0.43014	1	2973 tags=29%, list=19%, signal=35%	0.288431	0.970736	0.546482	0.773434	1	2668 tags=23%, list=17%, signal=27%
GAMETE_GENERATION	91	0.378019	1.17576	0.164642	0.429986	1	2123 tags=30%, list=13%, signal=35%	-0.25479	-0.81678	0.878125	0.981086	1	3671 tags=36%, list=23%, signal=46%
GSE2826_WT_VS_XID_BCELL_UP	183	0.353613	1.17519	0.118644	0.431448	1	2961 tags=23%, list=18%, signal=28%	0.253499	0.80385	0.865651	0.953494	1	4179 tags=29%, list=26%, signal=38%
PYROPHOSPHATASE_ACTIVITY	204	0.347578	1.17512	0.113501	0.43116	1	3935 tags=32%, list=25%, signal=42%	0.389984	1.31952	0.0232274	0.267972	1	3488 tags=36%, list=22%, signal=46%
SECRETORY_GRANULE	16	0.519054	1.17499	0.241379	0.431125	1	3101 tags=26%, list=19%, signal=32%	0.326991	1.11711	0.201465	0.541831	1	3104 tags=28%, list=19%, signal=34%
CYTOKINE_METABOLIC_PROCESS	41	0.432236	1.17454	0.22406	0.432076	1	3009 tags=38%, list=19%, signal=46%	0.472578	1.07507	0.359746	0.612644	1	2459 tags=44%, list=15%, signal=52%
IMMUNE_RESPONSE	206	0.348641	1.17442	0.116197	0.431921	1	3461 tags=41%, list=22%, signal=53%	0.298312	0.812824	0.79351	0.944391	1	3488 tags=34%, list=22%, signal=44%
GSE3982_NKCELL_VS_TH2_UP	163	0.354784	1.17425	0.135338	0.431933	1	3203 tags=29%, list=20%, signal=36%	0.32964	1.12286	0.182254	0.533069	1	2751 tags=29%, list=17%, signal=34%
GSE1448_CTRL_VS_ANTI_VLMPHA2_D	175	0.353381	1.17377	0.133971	0.431325	1	2741 tags=23%, list=17%, signal=27%	0.442613	1.484	0.00128535	0.138322	1	3362 tags=34%, list=21%, signal=43%
GSE29615_DAY3_VS_DAY7_LAIV_FLU	173	0.357324	1.17375	0.143241	0.432693	1	3052 tags=23%, list=19%, signal=28%	-0.299501	-1.13669	0.138614	0.469989	1	2107 tags=21%, list=13%, signal=24%
GSE15930_NAIVE_VS_24H_IN_VITRO	182	0.352052	1.17376	0.119048	0.432739	1	3406 tags=32%, list=21%, signal=41%	0.429392	1.45741	0.00120048	0.14861	1	3369 tags=37%, list=21%, signal=47%
GSE17721_POLYIC_VS_CPG_4H_BMD	176	0.351249	1.17277	0.138182	0.435152	1	2794 tags=24%, list=17%, signal=29%	0.357212	1.20526	0.0974106	0.424538	1	2177 tags=25%, list=14%, signal=29%
GSE339_CD8POS_VS_CD4CD8DN_DC	179	0.350323	1.17266	0.134734	0.434837	1	3334 tags=31%, list=21%, signal=38%	0.389929	1.32426	0.02133	0.268752	1	3200 tags=31%, list=20%, signal=39%
GSE17974_OH_VS_24H_IN_VITRO_AC	151	0.363177	1.17175	0.138365	0.437641	1	2638 tags=30%, list=16%, signal=35%	-0.256542	-0.969048	0.514286	0.723219	1	2108 tags=20%, list=13%, signal=23%
GSE17974_I14_ANTL_I12_VS_LU	142	0.362703	1.17173	0.146497	0.437204	1	3448 tags=32%, list=21%, signal=40%	0.275044	0.913097	0.676056	0.83567	1	3746 tags=25%, list=13%, signal=33%
GSE3982_CTRL_VS_PMA_STIM_EOSIN	169	0.352313	1.17163	0.137423	0.43704								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

NUCLEOSIDE_TRIPHOSPHATASE_ACTI	190	0.346465	1.16681	0.126812	0.445651	1	2380 tags=22%, list=15%, signal=25%	0.33673	1.13886	0.166065	0.512361	1	3104 tags=29%, list=19%, signal=35%
GSE39820_CTRL_VS_IIL1B_IIL6_CD4_Tk	173	0.352415	1.16624	0.133333	0.447081	1	3258 tags=31%, list=20%, signal=38%	0.286699	0.966393	0.556116	0.774798	1	2449 tags=20%, list=15%, signal=24%
REGULATION_OF_MITOSIS	34	0.438179	1.16591	0.217968	0.447775	1	4258 tags=47%, list=27%, signal=64%	0.470662	1.25203	0.146487	0.35688	1	2452 tags=35%, list=15%, signal=42%
CHROMOSOMEUPERCENTRIC_REGION	29	0.449759	1.16564	0.234146	0.448211	1	3235 tags=38%, list=20%, signal=47%	0.501695	1.28595	0.122449	0.305596	1	2412 tags=38%, list=15%, signal=45%
GSE9037_CTRL_VS_LPS_1H_STIM_BN	169	0.349664	1.16536	0.14951	0.448679	1	2479 tags=21%, list=15%, signal=24%	0.258064	0.869068	0.809227	0.893382	1	3154 tags=23%, list=20%, signal=28%
LIPID_METABOLIC_PROCESS	291	0.336982	1.16528	0.10702	0.448421	1	2991 tags=23%, list=19%, signal=27%	0.352471	1.23895	0.0301275	0.377418	1	2682 tags=22%, list=17%, signal=26%
GSE14308_TH1_VS_INDUCED_TREG_I	170	0.350463	1.16492	0.152393	0.449203	1	2878 tags=25%, list=18%, signal=30%	-0.29857	-1.14904	0.105505	0.468716	1	3009 tags=35%, list=19%, signal=42%
CATABOLIC_PROCESS	202	0.350087	1.16485	0.127962	0.448951	1	2092 tags=22%, list=13%, signal=25%	0.320698	1.098	0.242462	0.565499	1	2309 tags=20%, list=14%, signal=23%
GSE20151_CTRL_VS_FUSOBACT_NUC	162	0.354475	1.16447	0.158093	0.449766	1	3296 tags=27%, list=21%, signal=33%	0.355404	1.18509	0.11378	0.445138	1	3010 tags=25%, list=19%, signal=30%
GSE17721_12H_VS_24H_GARDIQUIM	178	0.34978	1.16447	0.136087	0.449273	1	2875 tags=27%, list=18%, signal=32%	0.327912	1.09693	0.235294	0.567852	1	3506 tags=37%, list=22%, signal=47%
GSE17721_12H_VS_24H_PAM3CSK4	183	0.347177	1.16444	0.132121	0.44888	1	3276 tags=29%, list=20%, signal=36%	0.334876	1.13807	0.179104	0.512855	1	2751 tags=28%, list=17%, signal=34%
RESPONSE_TO_VIRUS	42	0.429801	1.16423	0.222714	0.449051	1	1300 tags=24%, list=8%, signal=26%	0.457354	1.27163	0.112426	0.32697	1	2684 tags=36%, list=17%, signal=43%
GSE17974_CTRL_VS_ACT_IIL4_AND_A	173	0.351102	1.16387	0.158477	0.449828	1	3210 tags=34%, list=20%, signal=42%	0.45316	1.53093	0	0.110686	1	2608 tags=32%, list=16%, signal=38%
GSE22886_1GM_MEMORY_BCELL_VS	187	0.35077	1.16372	0.153941	0.449835	1	4053 tags=41%, list=25%, signal=54%	0.420311	1.43512	0.00123305	0.163062	1	2567 tags=29%, list=16%, signal=35%
CHROMOSOME	109	0.369043	1.16368	0.183805	0.449448	1	4131 tags=43%, list=26%, signal=58%	0.388291	1.24569	0.0837696	0.366246	1	2666 tags=33%, list=17%, signal=39%
POSITIVE_REGULATION_OF_CATALYTI	151	0.352994	1.16341	0.16146	0.449979	1	3420 tags=26%, list=21%, signal=33%	0.273483	0.91035	0.698734	0.839399	1	2549 tags=21%, list=16%, signal=24%
GSE20366_CTRL_VS_NAIVE_CD4_TCE	171	0.352385	1.16313	0.148103	0.450426	1	3404 tags=27%, list=21%, signal=34%	0.319866	1.07343	0.305795	0.616637	1	1880 tags=18%, list=12%, signal=20%
GSE14000_4H_VS_16H_LPS_DC_TRAN	174	0.349873	1.16162	0.161483	0.455101	1	2764 tags=29%, list=17%, signal=34%	0.345248	1.16741	0.152971	0.467981	1	3192 tags=32%, list=20%, signal=40%
GSE16755_CTRL_VS_IFNA_TREATED_I	165	0.352784	1.16159	0.150873	0.454695	1	2784 tags=30%, list=17%, signal=36%	-0.247124	-0.952954	0.663551	0.7638	1	2484 tags=23%, list=15%, signal=27%
GSE14769_UNSTIM_VS_120MIN_LPS	187	0.347071	1.16145	0.145655	0.454692	1	1869 tags=24%, list=12%, signal=26%	0.278259	0.946025	0.621723	0.792789	1	3488 tags=32%, list=22%, signal=40%
GSE3982_BASOPHIL_VS_TH2_DN	179	0.347848	1.16125	0.1367	0.454881	1	3044 tags=28%, list=19%, signal=34%	0.394968	1.34136	0.0162297	0.249745	1	3814 tags=38%, list=24%, signal=49%
NEGATIVE_REGULATION_OF_CELL_PFL	141	0.356191	1.16122	0.159006	0.454449	1	2988 tags=25%, list=19%, signal=30%	0.298506	0.977249	0.522465	0.763751	1	2051 tags=17%, list=13%, signal=19%
GSE12845_IGD_NEG_BLOOD_VS_NAI	180	0.349432	1.16118	0.141791	0.454129	1	3141 tags=32%, list=20%, signal=39%	0.420414	1.42788	0.00246609	0.16667	1	2021 tags=26%, list=13%, signal=30%
CYTOPLASMIC_MEMBRANE_BOUND	104	0.371993	1.16088	0.191235	0.454665	1	3142 tags=25%, list=20%, signal=31%	0.407039	1.3023	0.0492476	0.283759	1	3389 tags=35%, list=21%, signal=44%
GSE17580_UNINFECTED_VS_S_MANS	175	0.349114	1.16078	0.155875	0.454493	1	3306 tags=34%, list=21%, signal=43%	0.372093	1.25766	0.0625	0.347467	1	3058 tags=30%, list=19%, signal=37%
GSE17721_CPG_VS_GARDIQUIMOD	177	0.347943	1.16023	0.141304	0.455872	1	2744 tags=28%, list=17%, signal=33%	-0.276768	-1.0472	0.29646	0.590615	1	2861 tags=28%, list=18%, signal=33%
LIPID_RAFT	29	0.447291	1.15982	0.2496	0.45681	1	3675 tags=45%, list=23%, signal=58%	0.370453	0.95697	0.519939	0.777884	1	3993 tags=41%, list=25%, signal=55%
GSE9988_ANTI TREM1_VS ANTI TRE	159	0.349983	1.15963	0.150311	0.456961	1	2742 tags=28%, list=17%, signal=33%	0.309881	1.04311	0.347222	0.678154	1	2717 tags=23%, list=17%, signal=27%
GSE36476_CTRL_VS_TSST_ACT_72H_I	172	0.349123	1.15956	0.157552	0.456731	1	3045 tags=31%, list=19%, signal=38%	-0.377538	-1.45022	0.00507614	0.293845	1	2384 tags=37%, list=15%, signal=43%
GSE17974_0.5H_VS_72H_IIL4_AND_A	172	0.352528	1.15902	0.160642	0.458054	1	2192 tags=23%, list=14%, signal=26%	-0.300763	-1.15032	0.095956	0.466153	1	2698 tags=30%, list=17%, signal=36%
GSE2706_R848_VS_R848_AND_LPS_8	159	0.352211	1.15901	0.16129	0.457587	1	1475 tags=16%, list=9%, signal=17%	-0.234453	-0.887767	0.835052	0.892362	1	3576 tags=30%, list=22%, signal=38%
GSE22886_CD8_VS_CD4_NAIVE_TCEL	151	0.353472	1.15892	0.158028	0.457384	1	2808 tags=21%, list=17%, signal=25%	0.241637	0.807942	0.896071	0.94887	1	3178 tags=20%, list=20%, signal=25%
GSE1460_DP_VS_CD4_THYMOCYTE_L	170	0.347745	1.15838	0.151775	0.458735	1	3104 tags=27%, list=19%, signal=33%	0.378289	1.26141	0.0584577	0.340087	1	3294 tags=36%, list=21%, signal=45%
GSE15733_BM_VS_SPLEEN_MEMORY	178	0.345786	1.15835	0.153563	0.458324	1	2637 tags=27%, list=16%, signal=32%	0.257092	0.864426	0.804938	0.897127	1	2349 tags=20%, list=15%, signal=23%
GSE2706_R848_VS_LPS_8H_STIM_DC	161	0.353218	1.15828	0.172781	0.458084	1	3414 tags=33%, list=21%, signal=41%	0.257333	0.858626	0.812655	0.903695	1	2054 tags=17%, list=13%, signal=19%
NUCLEAR_ENVELOPE	65	0.391757	1.15813	0.19464	0.458027	1	2927 tags=34%, list=18%, signal=41%	0.424359	1.25727	0.105581	0.348005	1	2582 tags=31%, list=16%, signal=37%
GSE13485_DAY7_VS_DAY21_YF17D_V	166	0.352028	1.15801	0.162195	0.457965	1	3045 tags=30%, list=19%, signal=36%	0.271709	0.919321	0.66125	0.829479	1	2551 tags=23%, list=16%, signal=28%
GSE15780_TREG_VS_TEFF_DN	181	0.348463	1.15761	0.143033	0.458853	1	3098 tags=33%, list=19%, signal=40%	0.421362	1.41587	0.00502513	0.175189	1	2184 tags=29%, list=14%, signal=33%
GSE32423_IIL7_VS_IIL4_MEMORY_CD8	171	0.349312	1.15745	0.157767	0.458913	1	2256 tags=25%, list=14%, signal=28%	-0.272747	-1.0349	0.315789	0.601809	1	2166 tags=22%, list=13%, signal=25%
GSE7460_FOXP3_MUT_VS_HET_ACT	179	0.347354	1.15729	0.143902	0.458934	1	1697 tags=16%, list=11%, signal=18%	0.318314	1.07622	0.298893	0.609933	1	2640 tags=20%, list=16%, signal=24%
GSE22886_NAIVE_CD4_TCELL_VS_48I	185	0.345224	1.15724	0.158788	0.45861	1	3276 tags=29%, list=20%, signal=36%	0.406225	1.38626	0.00619579	0.199578	1	2775 tags=31%, list=17%, signal=37%
GSE18791_UNSTIM_VS_NEWCATSL	166	0.35161	1.15706	0.156642	0.458715	1	3434 tags=36%, list=21%, signal=46%	0.310393	1.03411	0.38239	0.691914	1	2687 tags=29%, list=17%, signal=34%
APICOLATERAL_PLASMA_MEMBRANE	30	0.447395	1.15687	0.238853	0.458942	1	4704 tags=37%, list=29%, signal=52%	0.295438	0.768289	0.839204	0.974092	1	2875 tags=13%, list=18%, signal=16%
GSE27786_LIN_NEG_VS_ERYTHRORBL	162	0.349921	1.15639	0.167089	0.460041	1	2272 tags=17%, list=14%, signal=20%	0.334545	1.11795	0.208861	0.54094	1	2525 tags=17%, list=16%, signal=20%
PEPTIDYL_TYROSINE_PHOSPHORYLAT	25	0.464022	1.15636	0.250742	0.459633	1	3093 tags=28%, list=19%, signal=35%	0.302104	0.767708	0.841693	0.973775	1	573 tags=12%, list=4%, signal=12%
NEGATIVE_REGULATION_OF_PROGRAM	140	0.356668	1.1561	0.167929	0.460091	1	3607 tags=33%, list=22%, signal=42%	0.401849	1.32465	0.0364583	0.26856	1	3459 tags=32%, list=22%, signal=41%
GSE22886_CD8_TCELL_VS_CD4_B	160	0.349536	1.1561	0.174447	0.459591	1	3263 tags=31%, list=20%, signal=39%	0.271345	0.908655	0.670823	0.840043	1	3914 tags=33%, list=24%, signal=43%
GSE14308_TH2_VS_TH1_UP	171	0.34626	1.15585	0.159905	0.459985	1	3543 tags=33%, list=22%, signal=42%	0.292047	0.978113	0.526961	0.763296	1	3343 tags=30%, list=21%, signal=38%
GSE17580_TREG_VS_TEFF_UP	171	0.349026	1.1552	0.155748	0.461711	1	2714 tags=27%, list=17%, signal=32%	0.370199	1.23698	0.0506798	0.378845	1	3383 tags=32%, list=21%, signal=40%
GSE22886_UNSTIM_VS_STIM_MEMO	182	0.344492	1.1551	0.159367	0.461618	1	3086 tags=31%, list=19%, signal=38%	0.391539	1.32156	0.0295203	0.267516	1	3942 tags=38%, list=25%, signal=50%
GSE15930_NAIVE_VS_72H_IN_VITRO	179	0.347968	1.15501	0.137805	0.461441	1	3299 tags=31%, list=21%, signal=39%	0.440602	1.5019	0	0.128668	1	2572 tags=32%, list=16%, signal=38%
GSE17721_PAM3CSK4_VS_CPG_24H	181	0.343266	1.15495	0.16445	0.461127	1	2809 tags=25%, list=17%, signal=30%	-0.303528	-1.15948	0.0833333	0.457027	1	2451 tags=23%, list=15%, signal=27%
GSE24634_NAIVE_CD4_TCELL_VS_DA	186	0.345942	1.15495	0.164466	0.460636	1	2714 tags=28%, list=17%, signal=33%	0.480395	1.61577	0	0.0691047	0.976	2855 tags=37%, list=18%, signal=45%
GSE360_DC_VS_MAC_B_MALAYI_HIG	178	0.344378	1.15461	0.157509	0.46132	1	2613 tags=26%, list=16%, signal=31%	-0.237746	-0.913407	0.800971	0.837031	1	1522 tags=17%, list=9%, signal=18%
SYNAPTIC_TRANSMISSION	159	0.346461	1.15443	0.163391	0.461549	1	2772 tags=14%, list=17%, signal=17%	0.224737	0.755135	0.980695	0.98091	1	3280 tags=12%, list=20%, signal=15%
TRANSFERASE_ACTIVITY_TRANSFERRI	106	0.364344	1.15434	0.183938	0.461349	1	3495 tags=28%, list=22%, signal=36%	0.406739	1.3007	0.048871	0.283604	1	3041 tags=24%, list=19%, signal=29%
GSE15659_TREG_VS_TCONV_DN	138	0.355938	1.15381	0.167296	0.462659	1	2653 tags=19%, list=17%, signal=22%	-0.270901	-0.991246	0.492823	0.673546	1	2309 tags=20%, list=14%, signal=23%
GSE13484_UNSTIM_VS_YF17D_VACC	168	0.347532	1.15358	0.170552									

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE17721_POLYIC_VS_PAM3CSK4_6F	182	0.342663	1.14589	0.179612	0.47863	1	3248 tags=29%, list=20%, signal=35%	0.285004	0.967215	0.536765	0.776136	1	3940 tags=32%, list=25%, signal=42%
REGULATION_OF_PROGRAMMED_CE	320	0.330041	1.14577	0.122768	0.478547	1	3526 tags=30%, list=22%, signal=38%	0.338053	1.19986	0.0668973	0.429781	1	2670 tags=24%, list=17%, signal=28%
REGULATION_OF_CYTOKINE_BIOSYN	37	0.424922	1.14543	0.261076	0.479265	1	2830 tags=35%, list=18%, signal=43%	0.307271	0.844888	0.725519	0.912969	1	3078 tags=32%, list=19%, signal=40%
GSE31082_DN_VS_CDS_SP_THYMOC	177	0.343458	1.14486	0.183475	0.480694	1	3526 tags=32%, list=22%, signal=41%	0.287209	0.965629	0.547445	0.773817	1	2477 tags=21%, list=15%, signal=24%
CELLULAR_LOCALIZATION	334	0.32821	1.14484	0.116854	0.480235	1	3499 tags=30%, list=22%, signal=37%	0.317382	1.13081	0.153584	0.523449	1	2919 tags=26%, list=18%, signal=31%
VESICLE	111	0.361134	1.14473	0.19296	0.480144	1	3142 tags=24%, list=20%, signal=30%	0.384965	1.23476	0.0993378	0.382878	1	3389 tags=33%, list=21%, signal=42%
GSE13411_NAIVE_VS_JGM_MEMORY	166	0.34765	1.14467	0.175245	0.47984	1	3290 tags=28%, list=20%, signal=35%	0.290236	0.971338	0.534913	0.773426	1	1954 tags=17%, list=12%, signal=20%
GSE3982_EOSINOPHIL_VS_DC_UP	170	0.345987	1.14466	0.173482	0.479365	1	3066 tags=25%, list=19%, signal=31%	0.35795	1.19652	0.0978399	0.432579	1	3007 tags=27%, list=19%, signal=33%
NEGATIVE_REGULATION_OF_APOPT	139	0.352894	1.14442	0.19603	0.480448	1	3607 tags=32%, list=22%, signal=41%	0.406603	1.33303	0.0261519	0.259388	1	3459 tags=32%, list=22%, signal=41%
CYTOKINE BIOSYNTHETIC_PROCESS	40	0.425208	1.14413	0.243402	0.480202	1	3461 tags=40%, list=22%, signal=51%	0.302013	0.831182	0.759398	0.924302	1	3488 tags=35%, list=22%, signal=45%
GSE31082_DP_VS_CD4_SP_THYMOC	178	0.343489	1.14412	0.185819	0.479748	1	2803 tags=27%, list=17%, signal=32%	0.30723	0.102651	0.398542	0.702321	1	4227 tags=40%, list=26%, signal=54%
GSE11057_EFF_MEM_VS_CENT_MEN	174	0.344456	1.14371	0.173285	0.480733	1	2630 tags=23%, list=16%, signal=27%	-0.236732	-0.911065	0.815	0.842653	1	1692 tags=17%, list=11%, signal=18%
G1_L_TRANSITION_OF_MITOTIC_CELL	26	0.452251	1.14277	0.271357	0.483583	1	2835 tags=35%, list=18%, signal=42%	0.414571	1.06469	0.339172	0.635233	1	2667 tags=46%, list=17%, signal=55%
GSE22886_TH1_VS_TH2_12H_ACT_U	176	0.343787	1.14238	0.185592	0.4845	1	3379 tags=28%, list=21%, signal=36%	0.299672	1.01099	0.430905	0.726771	1	1978 tags=16%, list=12%, signal=18%
INDUCTION_OF_APOPTOSIS_BY_INTR	21	0.477014	1.14207	0.267943	0.485134	1	1292 tags=19%, list=8%, signal=21%	0.39815	-1.03317	0.366667	0.606123	1	1584 tags=24%, list=10%, signal=26%
GSE2701_R848_VS_R848_AND_LPS_2	147	0.355358	1.14154	0.184539	0.486579	1	2662 tags=21%, list=17%, signal=25%	0.391173	1.30997	0.0377359	0.276093	1	3305 tags=28%, list=21%, signal=35%
GSE14308_TH2_VS_INDUCED_TREG_I	174	0.347014	1.14144	0.175737	0.486389	1	2739 tags=26%, list=17%, signal=32%	-0.251687	-0.969964	0.594595	0.723279	1	3724 tags=35%, list=23%, signal=45%
GSE27786_LSK_VS_NKCELL_DN	165	0.34537	1.14143	0.179141	0.485938	1	3514 tags=35%, list=22%, signal=44%	-0.333735	-1.27439	0.0186047	0.355752	1	1624 tags=22%, list=10%, signal=25%
GSE3982_CENT_MEMORY_CD4_TCELL	186	0.339797	1.14143	0.179141	0.485937	1	3248 tags=32%, list=20%, signal=39%	0.478699	1.62737	0	0.0667606	0.95	2755 tags=37%, list=17%, signal=44%
GSE9982_ANTI_TREM1_VS_LOW_LPS	172	0.343472	1.14125	0.180825	0.485611	1	3291 tags=33%, list=21%, signal=41%	0.309568	1.04303	0.367041	0.677297	1	3522 tags=34%, list=22%, signal=43%
PROTEIN_AMINO_ACID_O_LINKED_G	17	0.501946	1.14121	0.272583	0.485251	1	537 tags=24%, list=3%, signal=24%	0.50622	1.18273	0.236088	0.447767	1	275 tags=18%, list=2%, signal=18%
GSE5463_CTRL_VS_DEMETHASONE	178	0.343741	1.14114	0.170496	0.484985	1	2648 tags=23%, list=16%, signal=27%	-0.296431	-1.14448	0.095	0.465141	1	2023 tags=24%, list=13%, signal=27%
GSE26669_CD4_VS_CDS_TCELL_IN_N	177	0.343639	1.14107	0.188957	0.484749	1	3019 tags=31%, list=19%, signal=35%	-0.309341	-1.1934	0.0263158	0.428847	1	3372 tags=36%, list=21%, signal=45%
ESTABLISHMENT_OF_PROTEIN_LOCAI	168	0.342424	1.14028	0.177262	0.487118	1	3499 tags=32%, list=22%, signal=40%	0.248393	0.832265	0.889706	0.923887	1	2909 tags=23%, list=18%, signal=28%
ORGAN_MORPHOGENESIS	122	0.358556	1.14007	0.219108	0.487422	1	3164 tags=22%, list=20%, signal=27%	0.33202	1.08295	0.599545	1	3490 tags=27%, list=22%, signal=34%	
GSE10239_MEMORY_VS_DAY4_5_EFF	179	0.342189	1.14004	0.179177	0.487049	1	3274 tags=30%, list=20%, signal=37%	0.282032	0.945231	0.611995	0.792398	1	2475 tags=23%, list=15%, signal=27%
GSE36476_CTRL_VS_TSST_ACT_16H_I	188	0.338846	1.13989	0.163793	0.487057	1	3198 tags=29%, list=20%, signal=36%	0.47381	1.61547	0.00123305	0.06080347	0.976	3414 tags=45%, list=21%, signal=57%
GSE17721_POLYIC_VS_GARDIQUIMOI	171	0.343193	1.13957	0.182254	0.487704	1	3747 tags=31%, list=23%, signal=40%	0.28374	0.969716	0.546798	0.773797	1	2835 tags=24%, list=18%, signal=29%
GSE19825_NAIVE_VS_DAY3_EFF_CD8	176	0.342864	1.13932	0.187805	0.48811	1	3611 tags=18%, list=22%, signal=22%	0.201504	0.678646	1	0.99508	1	2943 tags=10%, list=18%, signal=12%
GSE17721_CTRL_VS_CPG_1H_BMDM	179	0.343297	1.13928	0.187042	0.488774	1	3143 tags=22%, list=20%, signal=27%	0.282315	0.95182	0.605135	0.785936	1	3337 tags=21%, list=21%, signal=27%
GSE3982_MAST_CELL_VS_TH1_DN	175	0.343161	1.13923	0.18	0.487417	1	3671 tags=30%, list=23%, signal=39%	0.400038	1.34566	0.0192953	0.248148	1	3003 tags=29%, list=19%, signal=35%
GSE22886_NAIVE_CD4_TCELL_VS_12I	185	0.339926	1.1387	0.189222	0.488912	1	3978 tags=41%, list=25%, signal=53%	0.386301	1.31756	0.0208589	0.270738	1	3716 tags=38%, list=23%, signal=49%
GSE3982_DC_VS_TH2_DN	181	0.341558	1.13848	0.194976	0.489185	1	3047 tags=25%, list=19%, signal=31%	0.410535	1.38945	0.00252207	0.199435	1	1747 tags=25%, list=11%, signal=28%
RECEPTOR_COMPLEX	51	0.403958	1.13827	0.254386	0.489419	1	2918 tags=31%, list=18%, signal=38%	0.353482	1.01845	0.42618	0.711245	1	2840 tags=27%, list=18%, signal=33%
GSE360_L_MAJOR_VS_B_MALAYI_LO	180	0.344991	1.13822	0.173145	0.489086	1	3104 tags=26%, list=19%, signal=32%	0.327735	1.1064	0.2189	0.555497	1	3109 tags=26%, list=19%, signal=31%
GSE36476_CTRL_VS_TSST_ACT_16H_I	170	0.34528	1.13786	0.180941	0.489851	1	3458 tags=32%, list=22%, signal=40%	-0.345472	-1.31099	0.0233645	0.343151	1	2890 tags=33%, list=18%, signal=40%
GSE3982_MEMORY_CD4_TCELL_VS_E	169	0.341667	1.13718	0.181024	0.491784	1	3461 tags=28%, list=22%, signal=36%	-0.363866	-1.38476	0.00526316	0.293936	1	2018 tags=25%, list=13%, signal=28%
ADHERENS_JUNCTION	22	0.478656	1.13671	0.282297	0.49304	1	3422 tags=41%, list=21%, signal=52%	0.566352	1.39215	0.0715421	0.199139	1	914 tags=14%, list=6%, signal=14%
GSE3982_II1B_1L6_VS_I1B_1L6_I2:	173	0.342199	1.13668	0.195954	0.492652	1	2572 tags=21%, list=16%, signal=25%	0.288679	0.968187	0.549191	0.77591	1	3116 tags=25%, list=19%, signal=31%
REGULATION_OF_APOPTOSIS	319	0.328271	1.13666	0.14877	0.492224	1	3526 tags=30%, list=22%, signal=37%	0.339743	1.20369	0.0553672	0.426506	1	2670 tags=24%, list=17%, signal=28%
EXTRACELLULAR_MATRIX_PART	45	0.406309	1.13651	0.24539	0.49228	1	4295 tags=33%, list=27%, signal=45%	-0.308527	-0.94711	0.527859	0.767238	1	1108 tags=11%, list=7%, signal=12%
GSE7460_TREG_VS_TCNS_ACT_UP	175	0.338654	1.136	0.174603	0.493669	1	3350 tags=35%, list=21%, signal=44%	0.282995	0.958461	0.564436	0.77746	1	3401 tags=30%, list=21%, signal=38%
DNA_INTEGRITY_CHECKPOINT	21	0.469287	1.1359	0.277603	0.493515	1	3979 tags=57%, list=25%, signal=76%	0.516214	1.26452	0.155779	0.337955	1	2119 tags=33%, list=13%, signal=38%
GSE360_L_DONOVANI_VS_L_MAJOR	166	0.343471	1.13562	0.194067	0.494054	1	2673 tags=23%, list=17%, signal=28%	0.253646	0.85114	0.83625	0.906915	1	2392 tags=16%, list=15%, signal=18%
REGULATION_OF_DEFENSE_RESPON	17	0.497474	1.13525	0.286195	0.494943	1	721 tags=24%, list=4%, signal=25%	-0.478641	-1.19535	0.199525	0.429691	1	1325 tags=18%, list=8%, signal=19%
GSE7460_TCONV_VS_TREG_THYMUS	176	0.341033	1.13497	0.190535	0.494526	1	2686 tags=24%, list=17%, signal=29%	-0.385688	-1.48677	0	0.319132	1	2965 tags=34%, list=18%, signal=41%
GSE360_L_MAJOR_VS_B_MALAYI_HI	173	0.343017	1.1349	0.182609	0.495205	1	2692 tags=17%, list=11%, signal=32%	0.26882	0.903531	0.702539	0.849538	1	2737 tags=21%, list=17%, signal=25%
GSE10239_NAIVE_VS_KLRG1NT_EFF	175	0.339483	1.13461	0.188192	0.495786	1	3104 tags=29%, list=19%, signal=35%	0.333663	1.1261	0.203474	0.534637	1	3696 tags=33%, list=23%, signal=43%
GSE1448_ANTI_VKLPAV2_VS_VBETA5	177	0.342604	1.13444	0.198538	0.495931	1	3308 tags=30%, list=21%, signal=37%	-0.293091	-0.927362	0.707447	0.803195	1	2934 tags=27%, list=18%, signal=32%
GSE24081_CONTROLLER_VS_PROGRE	176	0.34081	1.13413	0.190821	0.496586	1	2686 tags=26%, list=17%, signal=30%	0.293331	0.995189	0.478632	0.746145	1	2070 tags=19%, list=13%, signal=22%
BIOPOLYMER_CATABOLIC_PROCESS	102	0.362513	1.13399	0.215762	0.496569	1	3450 tags=34%, list=21%, signal=43%	0.277185	0.875481	0.744536	0.889307	1	3422 tags=27%, list=21%, signal=35%
GSE7404_CTRL_VS_CSF3_IN_VIVO_TF	163	0.344081	1.13394	0.188264	0.496281	1	2629 tags=23%, list=16%, signal=27%	0.365658	1.21965	0.0865747	0.404361	1	3754 tags=32%, list=23%, signal=41%
GSE360_DC_VS_MAC_M_TUBERCUL	176	0.341759	1.13375	0.194067	0.496474	1	2835 tags=24%, list=18%, signal=29%	-0.301252	-1.14504	0.12	0.46697	1	2010 tags=27%, list=13%, signal=30%
PROTEIN_TYROSINE_PHOSPHATASE_J	44	0.411101	1.13372	0.2	0.496074	1	2256 tags=30%, list=14%, signal=34%	-0.289833	-0.89907	0.670554	0.871025	1	3029 tags=27%, list=19%, signal=34%
GSE17721_CTRL_VS_GARDIQUIMOD	170	0.342132	1.13366	0.197287	0.4958	1	3279 tags=25%, list=20%, signal=31%	-0.225781	-0.881023	0.893401	0.903125	1	3029 tags=23%, list=19%, signal=28%
ESTABLISHMENT_OF_CELLULAR_LOC	317	0.324784	1.13353	0.142064	0.495797	1	3499 tags=30%, list=22%, signal=38%	0.321483	1.14509	0.13956	0.501153	1	2919 tags=27%, list=18%, signal=32%
GSE9006_TYPE_1_DIABETES_AT_RX	177	0.340745	1.13342	0.191932	0.495691	1	3025 tags=31%, list=19%, signal=37%	0.460471	1.53939	0.00123762	0.109355	1	2967 tags=41%, list=18%, signal=49%
GSE17721_0.5H_VS_12H_BMDM	178	0.338483	1.133	0.187113	0.496698	1	3364 tags=33%, list=24%, signal=43%	0.270313	0.915811	0.6576			

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE9037_WT_VS_IRAK4_KO_LPS_4H	174	0.340749	1.12671	0.201212	0.507926	1	1681 tags=16%, list=10%, signal=17%	0.357266	1.20933	0.104271	0.418644	1	3120 tags=26%, list=19%, signal=32%	
GSE360_HIGH_DOSE_B_MALAYI_VS_I	180	0.338137	1.12668	0.201422	0.507545	1	3213 tags=26%, list=20%, signal=32%	0.326251	1.10629	0.235222	0.555391	1	2477 tags=21%, list=15%, signal=24%	
GSE17721_PAM3CSK4_VS_CPG_2B_H	176	0.340543	1.12643	0.189055	0.507981	1	3029 tags=24%, list=19%, signal=30%	0.282145	0.957279	0.565432	0.778335	1	2750 tags=21%, list=17%, signal=25%	
GSE14308_NAIVE_CD4_TCELL_VS_NA	165	0.339432	1.12634	0.220663	0.507856	1	4128 tags=38%, list=26%, signal=50%	0.267442	0.898348	0.716625	0.85718	1	3536 tags=29%, list=22%, signal=37%	
GSE27786_BCELL_VS_CD4_TCELL_UP	176	0.342212	1.12634	0.193154	0.507369	1	2885 tags=28%, list=18%, signal=34%	-0.250398	-0.968547	0.553398	0.724059	1	3706 tags=37%, list=23%, signal=47%	
RECEPTOR_BINDING	343	0.320349	1.12575	0.147826	0.508949	1	2972 tags=20%, list=19%, signal=24%	0.33698	1.19683	0.0629291	0.432154	1	3114 tags=20%, list=19%, signal=24%	
GSE17974_CTRL_VS_ACT_I4_AND_A	159	0.340907	1.12571	0.201531	0.50863	1	2139 tags=23%, list=13%, signal=26%	0.280751	0.932369	0.640644	0.808221	1	2385 tags=20%, list=15%, signal=23%	
GSE17721_I13_VS_IL6_STIM_JMAC	184	0.338222	1.12545	0.227494	0.509071	1	3628 tags=39%, list=23%, signal=49%	0.286488	0.970988	0.558168	0.773066	1	3650 tags=30%, list=23%, signal=39%	
GSE2705_LPS_VS_RR48_AND_LPS_8H	171	0.341824	1.12525	0.216667	0.509331	1	2593 tags=26%, list=16%, signal=31%	0.375148	1.2672	0.045177	0.331906	1	3058 tags=29%, list=19%, signal=35%	
GSE27786_LSK_VS_BCELL_UP	169	0.337826	1.12519	0.202179	0.50904	1	1810 tags=18%, list=11%, signal=20%	0.263723	0.877319	0.778052	0.884961	1	3130 tags=25%, list=19%, signal=31%	
GSE17721_LPS_VS_POLYIC_24H_BMC	173	0.336337	1.12504	0.200241	0.509118	1	2201 tags=21%, list=14%, signal=25%	-0.312266	-1.19494	0.0494506	0.428599	1	2642 tags=31%, list=16%, signal=37%	
GSE13306_LAMINA_PROPRIA_VS_SPL	172	0.341555	1.12481	0.201474	0.50947	1	2890 tags=29%, list=18%, signal=35%	-0.331792	-1.29417	0.0104712	0.348162	1	2599 tags=30%, list=16%, signal=36%	
GSE17721_POLYIC_VS_GARDIQUIMOI	182	0.336022	1.12449	0.203125	0.510137	1	3003 tags=26%, list=19%, signal=31%	0.336638	1.13635	0.197062	0.516281	1	2266 tags=24%, list=14%, signal=27%	
GSE17721_CTRL_VS_GARDIQUIMO	181	0.336304	1.12416	0.215827	0.510892	1	2981 tags=25%, list=19%, signal=31%	0.345988	1.16899	0.137931	0.467448	1	2462 tags=23%, list=15%, signal=27%	
GSE9005_TYPE_1_DIABETES_AT_DX	165	0.341958	1.12358	0.215347	0.512527	1	1768 tags=17%, list=11%, signal=19%	-0.258015	-0.995332	0.469388	0.66491	1	2539 tags=26%, list=16%, signal=31%	
GSE7852_TREG_VS_TCNV_LN_DN	175	0.337505	1.12348	0.201691	0.51245	1	3098 tags=28%, list=19%, signal=34%	0.268171	0.903742	0.695921	0.849384	1	3048 tags=24%, list=19%, signal=29%	
GSE2706_2H_VS_8H_RR48_AND_LPS	167	0.335479	1.12285	0.216545	0.514215	1	3289 tags=26%, list=20%, signal=33%	-0.266583	-1.00891	0.398964	0.634211	1	2938 tags=28%, list=18%, signal=33%	
GSE22886_NEUTROPHIL_VS_DC_UP	164	0.33884	1.12268	0.218477	0.514369	1	2428 tags=20%, list=15%, signal=23%	0.368951	1.23792	0.0857503	0.378632	1	2849 tags=20%, list=18%, signal=23%	
GSE13411_NAIVE_VS_SWITCHED_ME	159	0.338641	1.12201	0.211854	0.516343	1	1049 tags=9%, list=7%, signal=10%	0.29337	0.979321	0.5	0.763778	1	3928 tags=21%, list=24%, signal=27%	
GSE15659_D45RA_NEG_CD4_TCELL	165	0.340315	1.12128	0.243176	0.516617	1	3916 tags=30%, list=24%, signal=39%	0.256017	0.855417	0.824341	0.904776	1	3617 tags=27%, list=23%, signal=35%	
GSE3982_NEUTROPHIL_VS_TH1_DN	182	0.334359	1.12139	0.219194	0.517651	1	3250 tags=32%, list=20%, signal=40%	0.329462	1.12486	0.193026	0.535702	1	3094 tags=32%, list=19%, signal=40%	
GSE17721_LPS_VS_GARDIQUIMO	170	0.339864	1.12134	0.196581	0.517346	1	2578 tags=23%, list=16%, signal=27%	0.362029	1.22983	0.0780856	0.38545	1	3449 tags=35%, list=21%, signal=44%	
GSE3003_PSP3_VS_SP4_THYMOCYTE	172	0.33806	1.12123	0.214373	0.517229	1	2002 tags=13%, list=12%, signal=15%	0.362251	1.232	0.0730769	0.382541	1	1992 tags=14%, list=12%, signal=16%	
GSE13483_UNSTIM_VS_YF17D_V	184	0.338459	1.12106	0.197855	0.517294	1	2653 tags=27%, list=17%, signal=32%	0.334123	1.13416	0.184615	0.516816	1	2667 tags=27%, list=17%, signal=32%	
GSE17721_PAM3CSK4_VS_GADICQUIMO	172	0.340669	1.12105	0.203956	0.516853	1	3225 tags=26%, list=20%, signal=32%	-0.255802	-0.981558	0.49763	0.696386	1	2204 tags=20%, list=14%, signal=23%	
GSE19825_NAIVE_VS_DAY3_EFF_CD8	170	0.337414	1.12056	0.213568	0.518074	1	3553 tags=34%, list=22%, signal=43%	0.36905	1.2511	0.0611995	0.355199	1	3866 tags=39%, list=24%, signal=51%	
GSE7460_CTRL_VS_TGFB_TREATED_A	172	0.337371	1.1203	0.20919	0.518522	1	2933 tags=29%, list=18%, signal=35%	0.327063	1.08669	0.271482	0.592625	1	2758 tags=28%, list=17%, signal=33%	
GSE7460_CTRL_VS_TGFB_TREATED_A	171	0.337853	1.12013	0.232877	0.51861	1	2020 tags=20%, list=13%, signal=23%	0.28466	0.955814	0.574416	0.779186	1	2560 tags=25%, list=16%, signal=29%	
GSE17974_OH_VS_4H_IN_VITRO_ACT	150	0.341453	1.11955	0.243073	0.520194	1	1912 tags=19%, list=12%, signal=22%	0.274037	0.910439	0.689308	0.839626	1	2837 tags=24%, list=18%, signal=29%	
GSE24634_I4_VS_CTRL_TREATED_NU	181	0.338141	1.11903	0.202736	0.521581	1	3153 tags=31%, list=20%, signal=39%	0.340092	1.14002	0.167082	0.510997	1	2887 tags=30%, list=18%, signal=37%	
GSE17974_I4_ANL_ANTIL12_VS_U	162	0.340965	1.11861	0.211706	0.522645	1	2855 tags=28%, list=18%, signal=33%	0.297137	0.998563	0.470064	0.742573	1	2738 tags=23%, list=17%, signal=28%	
CHANNEL_REGULATOR_ACTIVITY	22	0.459376	1.11859	0.298851	0.522259	1	2499 tags=23%, list=16%, signal=27%	0.446381	1.10032	0.315047	0.561756	1	4103 tags=27%, list=26%, signal=37%	
GSE3982_MASTER_CELL_VS_MAC_UP	166	0.339534	1.11854	0.213852	0.521936	1	1834 tags=19%, list=11%, signal=21%	-0.293132	-1.12149	0.117347	0.490901	1	2438 tags=30%, list=15%, signal=34%	
GSE13306_TREER_VS_TCNV_LAMINA	170	0.338576	1.11852	0.220807	0.521542	1	2632 tags=25%, list=16%, signal=29%	0.321596	1.08096	0.272277	0.602632	1	2692 tags=24%, list=17%, signal=28%	
GSE17721_CTRL_VS_GARDIQUIMO	176	0.339347	1.11815	0.207683	0.522471	1	3127 tags=28%, list=19%, signal=35%	0.304127	1.02648	0.412422	0.701855	1	3495 tags=28%, list=22%, signal=36%	
GSE22886_DAY0_VS_DAY1_MONOCY	179	0.338198	1.11771	0.206024	0.523014	1	4035 tags=23%, list=25%, signal=30%	-0.338023	-0.896398	0.631148	0.875511	1	435 tags=9%, list=3%, signal=9%	
GSE36476_YOUNG_VS_OLD_DONOR	164	0.339674	1.11764	0.217604	0.522769	1	3228 tags=34%, list=20%, signal=42%	0.381834	1.28689	0.0322196	0.307517	1	3976 tags=42%, list=25%, signal=56%	
GSE3982_MASTER_CELL_VS_BASOPHIL	170	0.339072	1.11751	0.200748	0.522744	1	3124 tags=23%, list=19%, signal=28%	0.431666	1.43147	0.00979192	0.162345	1	2411 tags=25%, list=15%, signal=29%	
GSE15324_ELF4_KO_VS_WT_ACTIVAT1	173	0.336383	1.1174	0.206161	0.522705	1	3066 tags=29%, list=19%, signal=36%	0.349163	1.18468	0.119552	0.445946	1	2707 tags=25%, list=17%, signal=30%	
GSE17974_CTRL_VS_ACT_I4_AND_A	167	0.339137	1.11738	0.213415	0.522279	1	2680 tags=26%, list=17%, signal=31%	-0.249069	-0.957435	0.621622	0.752516	1	3183 tags=34%, list=20%, signal=42%	
GSE2826_WT_VS_XID_BCELL_DN	175	0.337959	1.11712	0.217026	0.522275	1	2875 tags=28%, list=18%, signal=34%	0.391106	1.31339	0.0319285	0.272266	1	3700 tags=43%, list=23%, signal=55%	
GSE17721_POLYIC_VS_GARDIQUIMO	179	0.333936	1.11677	0.207479	0.52354	1	2920 tags=28%, list=18%, signal=29%	-0.255506	-0.972562	0.528846	0.716014	1	3085 tags=25%, list=19%, signal=31%	
GSE17721_CTRL_VS_CPG_8H_BMDM	173	0.33566	1.11601	0.211422	0.525815	1	3291 tags=29%, list=21%, signal=36%	-0.270096	-1.03603	0.323077	0.599752	1	1893 tags=20%, list=12%, signal=23%	
GSE3982_BASOPHIL_VS_TH1_UP	169	0.336723	1.11594	0.229369	0.525561	1	3297 tags=32%, list=21%, signal=40%	0.286013	0.961603	0.566792	0.774594	1	3228 tags=32%, list=20%, signal=39%	
GSE360_LOW_DOSE_B_MALAYI_VS_N	172	0.336903	1.11567	0.21358	0.526046	1	2829 tags=22%, list=18%, signal=26%	-0.306043	-1.17827	0.0526316	0.446026	1	3273 tags=37%, list=20%, signal=46%	
GSE17721_PAM3CSK4_VS_CPG_8H_B	178	0.336141	1.11523	0.235516	0.521731	1	3386 tags=26%, list=21%, signal=33%	0.303331	1.02288	0.403917	0.705213	1	2406 tags=26%, list=15%, signal=30%	
LIPOPROTEIN_BINDING	15	0.499965	1.1152	0.310924	0.52676	1	2358 tags=21%, list=15%, signal=24%	-0.250121	-0.978362	0.538462	0.703661	1	2818 tags=30%, list=18%, signal=36%	
GSE30083_SP1_VS_SP2_THYMOCYTE	181	0.335401	1.11514	0.236386	0.526248	1	1368 tags=27%, list=9%, signal=29%	0.449507	1.00157	0.459235	0.74198	1	547 tags=20%, list=3%, signal=21%	
GSE22886_NEUTROPHIL_VS_DC_DN	174	0.333722	1.11507	0.230404	0.526247	1	2868 tags=28%, list=18%, signal=33%	0.414453	1.40228	0.00500626	0.190223	1	2796 tags=31%, list=17%, signal=38%	
GSE339_EX_VIVO_VS_IN_CULTURE_C	180	0.338384	1.11501	0.228856	0.525976	1	3480 tags=30%, list=22%, signal=38%	-0.299211	-1.14252	0.116162	0.466559	1	3289 tags=39%, list=20%, signal=48%	
GSE14769_UNSTIM_VS_360MIN_LPS	173	0.333518	1.11494	0.220359	0.52574	1	2253 tags=23%, list=14%, signal=27%	0.26203	0.879223	0.763454	0.882852	1	3135 tags=28%, list=20%, signal=35%	
TRANSCRIPTION_FACTOR_BINDING	278	0.332303	1.11339	0.193622	0.528022	1	3584 tags=34%, list=22%, signal=43%	0.265452	0.890253	0.747434	0.869211	1	2247 tags=18%, list=14%, signal=21%	
GSE17721_PAM3CSK4_VS_GADICQUIMO	180	0.332937	1.11318	0.220888	0.528324	1	2804 tags=23%, list=17%, signal=27%	-0.245622	-0.993266	0.433333	0.66857	1	2663 tags=24%, list=17%, signal=28%	
GSE29615_CTRL_VS_DAY3_LAIV_IFLU	158	0.341702	1.11314	0.227328	0.529798	1	4116 tags=38%, list=26%, signal=50%	0.335076	1.13601	0.170135	0.516991	1	3549 tags=33%, list=22%, signal=42%	
GSE37416_CTRL_VS_24H_F_TULAREN	168	0.337563	1.11268	0.218712	0.529207	1	4011 tags=36%, list=25%, signal=48%	-0.274237	-1.03793	0.340206	0.598932	1	3241 tags=31%, list=20%, signal=38%	
GSE10325_CD4_TCELL_VS_LUPUS_CD	170	0.334849	1.11262	0.225182	0.528926	1	2745 tags=26%, list=17%, signal=31%	0.328						

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE18791_CTRL_VS_NEWCASTLE_VIR	140	0.337425	1.10841	0.227895	0.535664	1	2226 tags=21%, list=14%, signal=24%	0.328574	1.08538	0.281369	0.594757	1	3024 tags=25%, list=19%, signal=31%
APOPTOTIC_PROGRAM	54	0.383915	1.10804	0.282486	0.536506	1	3521 tags=35%, list=22%, signal=45%	0.490698	1.4277	0.0294118	0.166074	1	2550 tags=31%, list=16%, signal=37%
GSE2706_2H_VS_8H_LPS_STIM_DC_I	161	0.33514	1.10783	0.240994	0.536789	1	2740 tags=24%, list=17%, signal=29%	0.279349	0.930848	0.642053	0.809953	1	2849 tags=23%, list=18%, signal=28%
GSE36476_YOUNG_VS_OLD_DONOR	163	0.335437	1.10753	0.231539	0.537392	1	2533 tags=18%, list=16%, signal=22%	0.269088	0.909874	0.69483	0.839376	1	3502 tags=22%, list=22%, signal=28%
GSE3982_MASTER_CELL_VS_TH1_UP	171	0.334784	1.10753	0.2323251	0.536934	1	2767 tags=25%, list=17%, signal=30%	-0.284987	-1.08622	0.210762	0.541227	1	3195 tags=30%, list=20%, signal=37%
GSE29618_PRE_VS_DAY7_POST_TIV_	181	0.329772	1.1075	0.240048	0.53655	1	3580 tags=30%, list=22%, signal=39%	0.334586	1.12434	0.189189	0.535856	1	2799 tags=20%, list=17%, signal=24%
GSE3982_CTRL_VS_PMA_STIM_EOSIN	173	0.332209	1.1073	0.246022	0.536793	1	4094 tags=31%, list=26%, signal=41%	0.302829	1.02655	0.397468	0.702758	1	2775 tags=20%, list=17%, signal=24%
GSE17721_CTRL_VS_GARDIQUIMOD	178	0.334543	1.10713	0.229391	0.536897	1	3450 tags=31%, list=21%, signal=39%	0.265681	0.896748	0.703349	0.859303	1	2751 tags=22%, list=17%, signal=26%
GSE22886_NAIVE_VS_IGM_MEMORY	171	0.333778	1.10709	0.23417	0.536606	1	2934 tags=27%, list=18%, signal=33%	0.278103	0.94437	0.590124	0.79419	1	3503 tags=30%, list=22%, signal=38%
GSE20715_OH_VS_6H_OZONE_TLR4_	180	0.332446	1.107	0.235152	0.53648	1	4008 tags=35%, list=25%, signal=46%	-0.269129	-1.03291	0.323944	0.60591	1	3313 tags=31%, list=21%, signal=38%
OXIDOREDUCTASE_ACTIVITY_ACTING	15	0.50059	1.10655	0.341794	0.53758	1	2332 tags=33%, list=15%, signal=39%	-0.323363	-0.774953	0.809976	0.995364	1	1640 tags=20%, list=10%, signal=22%
GSE12845_IDG_NEG_BLOOD_VS_DAF	180	0.333439	1.10624	0.249697	0.538198	1	3477 tags=33%, list=22%, signal=41%	0.345015	1.16461	0.140567	0.475743	1	2947 tags=29%, list=18%, signal=35%
GSE7460_CTRL_VS_TGF_B_TREATED_A	174	0.332593	1.1062	0.219394	0.53786	1	2592 tags=25%, list=16%, signal=29%	0.307562	1.0383	0.363073	0.68511	1	3351 tags=30%, list=21%, signal=37%
GSE17721_CTRL_VS_GARDIQUIMOD	176	0.334641	1.10605	0.22515	0.537963	1	3065 tags=28%, list=19%, signal=35%	-0.264488	-1.01891	0.386473	0.628409	1	2854 tags=25%, list=18%, signal=30%
NEGATIVE_REGULATION_OF_CATALY	64	0.367077	1.10596	0.279494	0.537815	1	2906 tags=27%, list=18%, signal=32%	0.313169	0.994598	0.478448	0.746663	1	1274 tags=13%, list=8%, signal=14%
TRANSCRIPTION_FROM_RNA_POLYM	406	0.313275	1.10558	0.186072	0.538732	1	2908 tags=22%, list=18%, signal=27%	0.236288	0.854017	0.914847	0.904315	1	2082 tags=14%, list=13%, signal=16%
GSE3337_4H_VS_16H_IFNG_IN_CD8P	173	0.332939	1.10493	0.237927	0.540724	1	1926 tags=18%, list=12%, signal=20%	0.344179	1.16062	0.147741	0.480923	1	2637 tags=26%, list=16%, signal=31%
GSE360_L_DONOVANI_VS_M_TUBER	179	0.330754	1.10485	0.234568	0.540532	1	2930 tags=23%, list=18%, signal=28%	0.321316	1.08047	0.280657	0.603357	1	4249 tags=37%, list=26%, signal=50%
GSE13411_IGM_VS_SWITCHED_MEM	159	0.336711	1.10484	0.246269	0.540101	1	3337 tags=21%, list=21%, signal=27%	0.293231	0.987294	0.5	0.75251	1	3574 tags=18%, list=22%, signal=22%
GSE360_CTRL_VS_T_GOND1_MAC_D	182	0.332511	1.10481	0.237695	0.539756	1	2581 tags=20%, list=16%, signal=24%	0.261198	0.886585	0.749068	0.87261	1	3443 tags=29%, list=21%, signal=36%
GSE28237_FOLLICULAR_VS_LATE_GC	177	0.328422	1.1045	0.233577	0.540364	1	3976 tags=35%, list=25%, signal=46%	0.277775	0.940017	0.63522	0.800615	1	3259 tags=25%, list=20%, signal=32%
MICROTUBULE_ORGANIZING_CENTER	56	0.382782	1.10434	0.263309	0.540464	1	4272 tags=46%, list=27%, signal=63%	0.472243	1.3735	0.0329986	0.213964	1	3123 tags=38%, list=19%, signal=46%
GSE27786_LIN_NEG_VS_NKCELL_DN	169	0.335904	1.10408	0.23652	0.540969	1	3147 tags=20%, list=20%, signal=35%	0.22674	0.758103	0.979167	0.979278	1	2898 tags=22%, list=18%, signal=27%
GSE17721_CTRL_VS_CPG_0.5H_BMD	185	0.332486	1.10396	0.235653	0.540913	1	3683 tags=34%, list=23%, signal=43%	-0.262278	-1.02124	0.344498	0.62684	1	2555 tags=28%, list=16%, signal=32%
GSE17721_POLYIC_VS_CPG_8H_BMD	172	0.333686	1.10385	0.237576	0.540826	1	3371 tags=32%, list=21%, signal=40%	0.36894	1.23274	0.087049	0.380767	1	3162 tags=33%, list=20%, signal=41%
GSE17721_CTRL_VS_LPS_1H_BMDM	178	0.331225	1.1032	0.217284	0.542697	1	2973 tags=27%, list=19%, signal=33%	0.351566	1.18391	0.1225	0.445389	1	1648 tags=17%, list=10%, signal=19%
GSE6269_HEALTHY_VS_FLU_INF_PBN	144	0.338281	1.103	0.265075	0.542936	1	3045 tags=32%, list=19%, signal=39%	0.409715	1.36462	0.015444	0.22266	1	3048 tags=34%, list=19%, signal=42%
REGULATION_OF_CELLULAR_COMPOI	115	0.346221	1.10251	0.270375	0.542498	1	3890 tags=30%, list=24%, signal=40%	0.317284	1.02368	0.416667	0.703921	1	2711 tags=23%, list=17%, signal=27%
GSE13484_12H_VS_3H_YF17D_VACCI	172	0.332356	1.102	0.26553	0.54562	1	2193 tags=20%, list=14%, signal=23%	-0.256293	-0.988104	0.459893	0.679498	1	2717 tags=26%, list=17%, signal=30%
GSE17721_CTRL_VS_GARDIQUIMOD	174	0.331556	1.1017	0.251208	0.546297	1	2544 tags=21%, list=16%, signal=25%	0.311541	1.05276	0.329208	0.658646	1	3494 tags=28%, list=22%, signal=36%
REGULATION_OF_TRANSPORT	62	0.373502	1.10156	0.282386	0.546331	1	2772 tags=24%, list=17%, signal=29%	0.382306	1.125	0.256776	0.536408	1	3091 tags=26%, list=19%, signal=32%
GLYCOPROTEIN_METABOLIC_PROCES	85	0.356069	1.10054	0.279891	0.549466	1	3340 tags=31%, list=21%, signal=38%	0.384213	1.1882	0.152566	0.441408	1	3041 tags=25%, list=19%, signal=30%
GSE31028_DN_VS_DP_THYMOCYTE_I	176	0.332221	1.10015	0.244085	0.550347	1	4461 tags=42%, list=28%, signal=58%	-0.276219	-1.0568	0.244792	0.57594	1	3926 tags=39%, list=24%, signal=51%
GSE15659_TREG_VS_TCINV_UP	170	0.335948	1.10007	0.259773	0.550164	1	3261 tags=21%, list=20%, signal=27%	0.46077	1.53141	0	0.111383	1	3703 tags=29%, list=23%, signal=38%
GSE9988_LPS_VS_LOW_LPS_MONOC	129	0.341789	1.09992	0.262548	0.550218	1	2970 tags=19%, list=19%, signal=23%	0.361313	1.18942	0.113907	0.441	1	3598 tags=22%, list=22%, signal=28%
GSE29618_PRE_VS_DAY7_POST_TIV_	171	0.330146	1.09953	0.240964	0.551168	1	1981 tags=19%, list=12%, signal=22%	0.279934	0.948269	0.570886	0.790011	1	3363 tags=30%, list=21%, signal=38%
GSE17721_CTRL_VS_GARDIQUIMOD_6	182	0.326202	1.09924	0.25173	0.551737	1	2743 tags=25%, list=17%, signal=29%	0.329238	1.09325	0.24813	0.576304	1	3522 tags=35%, list=22%, signal=45%
GSE17721_LPS_VS_CPG_1H_BMDM	182	0.331637	1.09918	0.243373	0.551474	1	2002 tags=18%, list=12%, signal=20%	0.322121	1.08754	0.256604	0.590384	1	2571 tags=25%, list=16%, signal=29%
SECOND_MESSENGER_MEDIATED_SK	143	0.335246	1.09905	0.259307	0.551469	1	2889 tags=18%, list=18%, signal=22%	0.310151	1.02813	0.396104	0.699977	1	3276 tags=20%, list=20%, signal=24%
GSE13229_IMM_VS_MATURE_NKCEL	176	0.327754	1.09866	0.239454	0.552443	1	2578 tags=23%, list=16%, signal=27%	-0.301015	-1.15738	0.111111	0.457898	1	2799 tags=26%, list=17%, signal=31%
GSE17721_12H_VS_24H_CPG_BMDM	183	0.331631	1.09849	0.250614	0.55257	1	3315 tags=26%, list=21%, signal=32%	0.396386	1.33929	0.0248447	0.252059	1	2645 tags=25%, list=16%, signal=29%
GSE17721_0.5H_VS_4H_CPG_BMD	177	0.330253	1.09846	0.250914	0.552199	1	1831 tags=20%, list=11%, signal=23%	-0.291567	-1.12313	0.113861	0.486632	1	2132 tags=22%, list=13%, signal=25%
GSE17721_LPS_VS_GARDIQUIMOD_1	174	0.330219	1.09803	0.263872	0.553268	1	2066 tags=16%, list=13%, signal=18%	0.261043	0.879569	0.764417	0.88243	1	3211 tags=20%, list=20%, signal=25%
GSE3982_ESINOPHIL_VS_TH2_DN	180	0.328555	1.09784	0.24142	0.553538	1	3377 tags=31%, list=21%, signal=38%	0.340246	1.15834	0.164417	0.483821	1	3737 tags=37%, list=23%, signal=48%
VESICLE_MEDIATED_TRANSPORT	180	0.332541	1.09778	0.249695	0.553266	1	4091 tags=33%, list=25%, signal=43%	0.409483	1.38624	0.00608273	0.198723	1	2459 tags=28%, list=15%, signal=32%
GSE17721_POLYIC_VS_CPG_1H_BMD	181	0.327777	1.09766	0.248804	0.55324	1	2666 tags=22%, list=17%, signal=26%	-0.262732	-1.00687	0.4	0.641857	1	2895 tags=25%, list=18%, signal=31%
POSITIVE_REGULATION_OF_CELLULAI	214	0.323801	1.0976	0.240291	0.552941	1	3461 tags=32%, list=20%, signal=40%	-0.27208	-1.08499	0.135294	0.539587	1	2154 tags=21%, list=13%, signal=24%
CYTOKINESIS	16	0.462077	1.09743	0.334959	0.553064	1	2809 tags=38%, list=17%, signal=45%	0.553058	1.31987	0.116086	0.268598	1	696 tags=25%, list=4%, signal=26%
GSE13738_RESTING_VS_TCR_ACTIVAT	174	0.332721	1.09702	0.249392	0.554047	1	1778 tags=20%, list=11%, signal=22%	0.339494	1.15217	0.158025	0.490949	1	2936 tags=29%, list=18%, signal=35%
GSE29618_PRE_VS_DAY7_POST_TIV_	167	0.33463	1.09676	0.26408	0.554466	1	2742 tags=23%, list=17%, signal=27%	0.421748	1.43507	0.00486027	0.162122	1	3413 tags=35%, list=21%, signal=44%
GSE30083_SP2_VS_SP3_Thymocyte	174	0.328334	1.09666	0.240096	0.554371	1	1897 tags=16%, list=12%, signal=17%	0.370525	1.24036	0.063591	0.377272	1	2748 tags=24%, list=17%, signal=29%
GSE9988_LPS_VS_VEHICLE_TREATED	168	0.32804	1.09665	0.247525	0.553911	1	3208 tags=35%, list=20%, signal=43%	0.403669	1.35753	0.0172414	0.231312	1	2649 tags=33%, list=17%, signal=39%
GSE13306_TREG_VS_TCINV_UP	167	0.330409	1.09645	0.256671	0.554173	1	3129 tags=24%, list=19%, signal=29%	0.257048	0.868378	0.809824	0.893257	1	2483 tags=17%, list=15%, signal=20%
CYTOKINE_SECRETION	15	0.502761	1.09637	0.34753	0.554024	1	3134 tags=60%, list=20%, signal=74%	0.554244	1.2389	0.198971	0.376846	1	2891 tags=33%, list=18%, signal=41%
GSE17721_0.5H_VS_4H_CPG_BMDM	170	0.333788	1.09591	0.266507	0.555183	1	2878 tags=28%, list=18%, signal=34%	0.365422	1.22996	0.0706179	0.385751	1	3600 tags=38%, list=22%, signal=48%
GSE13408_H17_VS_NATURAL_TREG	167	0.336178	1.09578	0.267148	0.555175	1	3520 tags=29%, list=22%, signal=37%	0.252421	0.852732	0.905502	1	4046 tags=35%, list=25%, signal=47%	
GSE17721_CTRL_VS_POLYIC_1H_BML	179	0.330066	1.09572	0.258255	0.554922	1	2073 tags=16%, list=13%, signal=18%	-0.264728	-1.02372	0.37037	0.622198	1	1595 tags=15%, list=10%, signal=17%
GSE37416_OH_VS_3H_F_TULARENSIS	174	0.329	1.09531	0.255583	0.555937	1	2622						

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE27786_NKTCELL_VS_NEUTROPHIL	178	0.329547	1.08897	0.263223	0.568128	1	3741 tags=29%, list=23%, signal=38%	-0.239808	-0.923775	0.751351	0.810398	1	3008 tags=25%, list=19%, signal=30%
TRANSMISSION_OF_NERVE_IMPULSE	174	0.327803	1.08896	0.269182	0.567681	1	2772 tags=14%, list=17%, signal=17%	0.250488	0.844082	0.847853	0.91155	1	2102 tags=9%, list=13%, signal=10%
SPHINGOLIPID_METABOLIC_PROCESS	26	0.437471	1.08883	0.319018	0.56767	1	2305 tags=23%, list=14%, signal=27%	0.415337	1.03931	0.400324	0.683015	1	2959 tags=27%, list=18%, signal=33%
GSE29618_PRE_VS_DAY7_POST_TIV	175	0.327699	1.0884	0.261239	0.56878	1	2703 tags=24%, list=17%, signal=29%	0.382391	1.29702	0.0337922	0.292153	1	2889 tags=31%, list=18%, signal=37%
GSE29618_LAI_VS_TIV_FLU_VACCIN	176	0.324802	1.08821	0.266667	0.568978	1	2358 tags=22%, list=15%, signal=25%	0.218216	0.732484	0.988651	0.989393	1	3715 tags=25%, list=23%, signal=32%
REGULATION_OF_DNA_BINDING	44	0.392786	1.0878	0.309696	0.570013	1	2597 tags=32%, list=16%, signal=38%	0.400493	1.12359	0.268769	0.533867	1	3560 tags=36%, list=22%, signal=47%
GSE9650_NAIVE_VS_EXHAUSTED_CD1	181	0.328884	1.08773	0.28519	0.5698	1	2975 tags=25%, list=19%, signal=31%	0.335517	1.12524	0.190534	0.536743	1	2968 tags=26%, list=18%, signal=31%
GSE17724_IL15_TREATED_VS_CTRL_NI	182	0.325854	1.08729	0.277035	0.570918	1	3210 tags=30%, list=20%, signal=37%	0.443384	1.50119	0.00123457	0.127071	1	2993 tags=37%, list=19%, signal=45%
GSE3982_EOSINOPHIL_VS_BASOPHIL	169	0.329117	1.08687	0.265356	0.572026	1	3741 tags=31%, list=23%, signal=40%	0.382202	1.27574	0.0405577	0.317421	1	3610 tags=33%, list=22%, signal=42%
GSE12366_GC_BCELL_VS_PLASMA_CI	157	0.333343	1.0866	0.294118	0.572597	1	3048 tags=25%, list=19%, signal=30%	0.326305	1.09212	0.268473	0.578293	1	2881 tags=26%, list=18%, signal=32%
CELL_CELL_SIGNALING	373	0.308367	1.08651	0.243421	0.572481	1	2792 tags=14%, list=17%, signal=17%	0.309323	1.11042	0.18743	0.549743	1	3024 tags=15%, list=19%, signal=18%
GSE20715_WT_VS_TLR4_KO_24H_OZ	175	0.328352	1.08684	0.572428	0.572428	1	3314 tags=30%, list=21%, signal=38%	0.429552	1.4546	0	0.150901	1	3125 tags=32%, list=19%, signal=39%
GSE17721_LPS_VS_POLYIC_8H_BMDM	170	0.32826	1.08639	0.279393	0.571995	1	3240 tags=29%, list=20%, signal=36%	0.278054	0.938301	0.62142	0.801187	1	3836 tags=32%, list=24%, signal=41%
MESODERM_DEVELOPMENT	20	0.45468	1.08588	0.346906	0.57336	1	3863 tags=30%, list=24%, signal=39%	-0.410963	-1.053	0.344828	0.579652	1	1121 tags=15%, list=7%, signal=16%
GSE17721_CPG_VS_GARDIQUIMOD_	172	0.326201	1.08574	0.27056	0.573406	1	3059 tags=23%, list=19%, signal=28%	0.315479	1.0603	0.31519	0.643988	1	3232 tags=27%, list=20%, signal=34%
GSE17721_CTRL_VS_LPS_8H_BMDM	170	0.328333	1.08574	0.280193	0.57295	1	3292 tags=31%, list=21%, signal=38%	-0.258481	-0.984296	0.451282	0.688327	1	3333 tags=36%, list=21%, signal=46%
CELL_STRUCTURE_DISASSEMBLY_DUF	15	0.484573	1.08573	0.378467	0.572521	1	1470 tags=27%, list=9%, signal=29%	0.487384	1.10594	0.331606	0.554407	1	2550 tags=40%, list=16%, signal=48%
CYTOKINE_ACTIVITY	100	0.346167	1.08558	0.301783	0.572552	1	1300 tags=13%, list=8%, signal=14%	0.402851	1.26781	0.0745672	0.33082	1	2815 tags=22%, list=18%, signal=27%
GSE9650_EXHAUSTED_VS_MEMORY	184	0.325807	1.08556	0.2744486	0.572155	1	2475 tags=21%, list=15%, signal=25%	0.426891	1.44981	0.00245399	0.152604	1	3169 tags=32%, list=20%, signal=39%
GSE360_L_GONDII_VS_B_MALAYI_LO	178	0.327697	1.08538	0.272175	0.572285	1	1822 tags=17%, list=11%, signal=19%	0.340541	1.15506	0.152147	0.485778	1	2097 tags=19%, list=13%, signal=21%
SPINDLE_POLE	17	0.486269	1.0851	0.379032	0.572839	1	2967 tags=41%, list=18%, signal=50%	0.52418	1.21128	0.208122	0.416766	1	2306 tags=41%, list=14%, signal=48%
SKELLETAL_DEVELOPMENT	88	0.352218	1.08506	0.307692	0.572547	1	4834 tags=30%, list=30%, signal=42%	0.315064	0.977517	0.503294	0.763312	1	3150 tags=17%, list=20%, signal=21%
GSE29618_CELL_VS_MDC_DAY7_FLL	162	0.331076	1.08459	0.280941	0.573785	1	3528 tags=22%, list=21%, signal=45%	-0.266163	-1.01415	0.378505	0.62523	1	2064 tags=22%, list=13%, signal=25%
GSE17721_LPS_VS_GARDIQUIMOD_1	176	0.325226	1.08415	0.271062	0.574905	1	3723 tags=34%, list=23%, signal=43%	0.336538	1.12671	0.18875	0.533547	1	1984 tags=19%, list=12%, signal=22%
GSE360_L_DONOVANI_VS_B_MALAYI	169	0.326576	1.08369	0.283966	0.576083	1	3540 tags=36%, list=22%, signal=46%	0.320209	1.0754	0.300629	0.61192	1	1934 tags=23%, list=12%, signal=26%
GSE3066_CD103_POS_VS_CD103_KI	172	0.32369	1.08356	0.276699	0.57608	1	3290 tags=26%, list=20%, signal=33%	-0.280531	-1.08265	0.190698	0.545844	1	2648 tags=27%, list=16%, signal=32%
GSE11864_CSF1_VS_CSF1_FNFG_PAM	170	0.324913	1.08228	0.271739	0.580297	1	2858 tags=29%, list=18%, signal=35%	-0.269943	-1.03917	0.285714	0.600965	1	2006 tags=25%, list=12%, signal=29%
GSE27786_CD4_TCELL_VS_NEUTROPHI	169	0.325869	1.08227	0.292079	0.57986	1	2502 tags=19%, list=16%, signal=22%	0.312551	1.04501	0.378713	0.674926	1	3599 tags=28%, list=22%, signal=35%
PEPTIDE_BINDING	80	0.357024	1.08222	0.316872	0.579574	1	2972 tags=20%, list=19%, signal=24%	-0.327283	-1.13636	0.1875	0.469269	1	3328 tags=23%, list=21%, signal=28%
GSE1464_DP_THYMOCYTE_VS_NAIVE	171	0.32495	1.08213	0.277712	0.579437	1	4056 tags=37%, list=25%, signal=49%	0.39587	1.33087	0.0236908	0.261594	1	3392 tags=37%, list=21%, signal=47%
GSE360_CTRL_VS_M_TUBERCULOSIS	178	0.326389	1.08202	0.293622	0.579387	1	2896 tags=23%, list=18%, signal=28%	0.226809	0.770425	0.965854	0.975076	1	3647 tags=25%, list=23%, signal=32%
MOTOR_ACTIVITY	26	0.428191	1.08115	0.356577	0.582023	1	3608 tags=38%, list=22%, signal=50%	0.466243	1.17858	0.219551	0.452029	1	2275 tags=31%, list=14%, signal=36%
MONOVALENT_INORGANIC_CATION	31	0.420984	1.08073	0.334906	0.582983	1	2871 tags=26%, list=18%, signal=31%	0.240323	0.625505	0.981538	0.998004	1	2693 tags=19%, list=17%, signal=23%
ALCOHOL_METABOLIC_PROCESS	83	0.355024	1.08048	0.31405	0.583483	1	2718 tags=25%, list=17%, signal=30%	0.324928	1.00008	0.450304	0.740284	1	2640 tags=24%, list=16%, signal=29%
GSE17721_PAM3CSK4_VS_GADIQIN	181	0.325671	1.08025	0.294826	0.583815	1	3882 tags=34%, list=24%, signal=45%	-0.250094	-0.96412	0.577778	0.739683	1	2845 tags=28%, list=18%, signal=33%
GSE20366_TREG_VS_TCONV_DN	177	0.324144	1.08019	0.275689	0.583569	1	3335 tags=28%, list=21%, signal=35%	0.343667	1.17197	0.137672	0.462216	1	1940 tags=21%, list=12%, signal=24%
NUCLEOTIDE_METABOLIC_PROCESS	39	0.399356	1.07979	0.327354	0.584672	1	3804 tags=44%, list=24%, signal=57%	0.385557	1.06639	0.353395	0.631034	1	3625 tags=31%, list=23%, signal=40%
HYDROLASE_ACTIVITY_ACTING_ON_E	243	0.31768	1.07974	0.281723	0.584357	1	2163 tags=19%, list=13%, signal=22%	0.338319	1.17625	0.0998811	0.454106	1	3904 tags=32%, list=24%, signal=42%
GSE15767_MED_VS_SCS_MAC_LN_DI	179	0.324751	1.07964	0.284041	0.584243	1	3670 tags=35%, list=23%, signal=45%	0.249988	0.843449	0.866337	0.911965	1	2341 tags=17%, list=15%, signal=20%
GSE22886_DAY0_VS_DAY7_MONOCY	166	0.328747	1.07937	0.293465	0.584747	1	3084 tags=30%, list=19%, signal=37%	-0.280715	-1.06875	0.227979	0.555508	1	2693 tags=19%, list=17%, signal=23%
MICROTUBULE_CYTOSKELETON_ORG	33	0.407412	1.07848	0.343653	0.587639	1	3105 tags=30%, list=19%, signal=37%	0.350033	0.936174	0.558642	0.803555	1	4097 tags=36%, list=26%, signal=49%
INTERLEUKIN_RECEPTOR_ACTIVITY	17	0.472759	1.07827	0.36748	0.588016	1	2169 tags=35%, list=14%, signal=41%	0.468558	1.0839	0.332242	0.598129	1	1504 tags=35%, list=9%, signal=39%
SPECIFIC_RNA_POLYMERASE_II_TRAN	32	0.416371	1.07784	0.335375	0.58919	1	3798 tags=34%, list=24%, signal=45%	0.356841	0.949985	0.55296	0.786923	1	18 tags=6%, list=0%, signal=6%
GSE17721_CTRL_VS_LPS_4H_BMDM	175	0.324303	1.07758	0.282903	0.589677	1	3285 tags=25%, list=20%, signal=31%	0.328918	1.10201	0.232311	0.55863	1	2293 tags=17%, list=14%, signal=20%
GSE22886_TH1_VS_TH2_12H_ACT_DI	166	0.327908	1.0774	0.318182	0.589858	1	3196 tags=24%, list=20%, signal=30%	-0.261633	-0.992804	0.489899	0.669266	1	2702 tags=23%, list=17%, signal=27%
LIPID_BIOSYNTHETIC_PROCESS	89	0.351535	1.07732	0.309859	0.58969	1	3285 tags=24%, list=20%, signal=30%	0.412598	1.28723	0.0900141	0.307271	1	2854 tags=30%, list=18%, signal=37%
GSE17808_UNINFECTED_VS_S_MANS	170	0.326077	1.07717	0.298077	0.589792	1	3973 tags=32%, list=14%, signal=42%	0.342627	1.15793	0.145754	0.484059	1	3370 tags=31%, list=21%, signal=39%
GSE9988_LOW_LPS_CTRL_TREATMENT	175	0.322767	1.077	0.291925	0.58992	1	3208 tags=31%, list=20%, signal=39%	0.289342	0.962724	0.504088	0.773385	1	2667 tags=26%, list=19%, signal=31%
GSE39820_CTRL_VS_IL1B_IL6_L23A_	182	0.322596	1.07675	0.287605	0.59034	1	3461 tags=30%, list=22%, signal=38%	0.287713	0.979496	0.503713	0.763653	1	2967 tags=29%, list=18%, signal=35%
INTRACELLULAR_TRANSPORT	251	0.315746	1.07665	0.281933	0.590278	1	3499 tags=30%, list=22%, signal=38%	0.284366	0.985617	0.504172	0.75055	1	2919 tags=26%, list=18%, signal=32%
FATTY_ACID_METABOLIC_PROCESS	58	0.372612	1.07611	0.338185	0.591732	1	1314 tags=17%, list=8%, signal=19%	0.40858	1.19829	0.181422	0.431824	1	2486 tags=28%, list=15%, signal=33%
PROTEIN_IMPORT	54	0.373877	1.07604	0.318318	0.591539	1	3230 tags=31%, list=20%, signal=39%	0.247701	0.717857	0.949568	0.992643	1	3737 tags=31%, list=23%, signal=41%
GSE13411_SWITCHED_MEMORY_BCE	178	0.323973	1.07602	0.293758	0.59112	1	4049 tags=31%, list=25%, signal=40%	0.301742	0.991416	0.491591	0.750068	1	2685 tags=33%, list=17%, signal=39%
GSE15659_NAIVE_CD4_TCELL_VS_NC	144	0.332123	1.07585	0.305486	0.591293	1	3129 tags=27%, list=19%, signal=33%	0.407533	1.37891	0.00737101	0.207663	1	3444 tags=20%, list=21%, signal=25%
GSE5960_TH1_VS_ANERGIC_TH1_DN	177	0.321551	1.07545	0.293689	0.592257	1	1571 tags=23%, list=10%, signal=25%	0.473314	1.15342	0.252006	0.488723	1	3469 tags=33%, list=22%, signal=42%
GSE17974_IL4_AND_ANTI_IL2_VS_U	147	0.330684	1.07489	0.306295	0.593346	1	2597 tags=20%, list=16%, signal=24%	0.356193	1.17614	0.139975	0.453195	1	4044 tags=32%, list=25%, signal=42%
GSE14308_TH2_VS_TH17_UP	177	0.322402	1.07464	0.294261	0.593778	1	3248 tags=27%, list=20%, signal=34%	0.359169	1.21941	0.0699387	0.404439	1	4149 tags=40%, list=26%, signal=53%
CARBOHYDRATE_CATABOLIC_PROCES	23	0.442426	1.07411	0.367314	0.595275	1	1571 tags=22%, list=10%, signal=24%	0.473309	1.17336	0.214168			

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE9006_TYPE_1_DIABETES_AT_DX_	179	0.319454	1.06988	0.297949	0.600498	1	3275 tags=30%, list=20%, signal=37%	0.433713	1.48079	0.0036452	0.137941	1	2992 tags=40%, list=19%, signal=49%
IMMUNE_SYSTEM_DEVELOPMENT	71	0.357692	1.0693	0.331476	0.60219	1	3760 tags=32%, list=23%, signal=42%	0.337848	1.01965	0.416303	0.708361	1	2704 tags=30%, list=17%, signal=35%
TRANSCRIPTION_FACTOR_ACTIVITY	318	0.305195	1.06892	0.279545	0.603091	1	2503 tags=20%, list=16%, signal=23%	0.282101	-1.15919	0.0338983	0.456106	1	2437 tags=22%, list=15%, signal=25%
GSE3982_CENT_MEMORY_CD4_TCELL	155	0.326287	1.06872	0.324121	0.603387	1	2314 tags=19%, list=14%, signal=22%	-0.382582	-1.44653	0	0.287535	1	2049 tags=26%, list=13%, signal=30%
GSE360_L_DONOVANI_VS_B_MALAYI	176	0.321605	1.06872	0.30622	0.602939	1	3609 tags=34%, list=22%, signal=43%	0.364481	1.22848	0.0809816	0.387073	1	2266 tags=27%, list=14%, signal=31%
GSE3982_EFF_MEMORY_CD4_TCELL_	169	0.322741	1.06869	0.300245	0.602593	1	2629 tags=22%, list=16%, signal=27%	-0.289572	-1.10074	0.172566	0.524526	1	2804 tags=25%, list=17%, signal=30%
RESPONSE_TO_NUTRIENT_LEVELS	26	0.433156	1.06835	0.376923	0.603467	1	3564 tags=19%, list=22%, signal=25%	0.516895	1.31113	0.108926	0.275399	1	3764 tags=35%, list=23%, signal=45%
GSE360_L_NEUTROPHIL_VS_CDLL_UP	164	0.321889	1.06794	0.292929	0.604474	1	3495 tags=30%, list=22%, signal=38%	0.296783	1.00108	0.4534	0.739873	1	2893 tags=24%, list=18%, signal=29%
GSE360_L_MAJOR_VS_M_TUBERCUL	163	0.324236	1.0671	0.310559	0.607063	1	2204 tags=18%, list=14%, signal=20%	0.231046	0.770671	0.961347	0.975282	1	3274 tags=21%, list=20%, signal=27%
GSE360_CTRL_VS_B_MALAYI_HIGH_E	179	0.317968	1.06698	0.313777	0.607061	1	3163 tags=27%, list=20%, signal=33%	0.388577	1.31848	0.0225847	0.269134	1	2416 tags=27%, list=15%, signal=31%
GSE17721_LPS_VS_PAMCSK4_2H_BI	176	0.322664	1.06687	0.298544	0.606977	1	1879 tags=16%, list=12%, signal=18%	0.272822	0.919154	0.659259	0.829498	1	3603 tags=27%, list=22%, signal=34%
GSE26928_CENTR_MEMORY_VS_CXC	154	0.325032	1.06667	0.321474	0.607202	1	2349 tags=18%, list=15%, signal=20%	0.232584	0.780829	0.944444	0.968018	1	1735 tags=12%, list=11%, signal=14%
GSE1432_1H_VS_24H_IFNG_MICROG	179	0.318799	1.06659	0.31195	0.607019	1	2436 tags=23%, list=15%, signal=27%	0.316458	1.06636	0.31211	0.630572	1	2095 tags=23%, list=13%, signal=26%
PROTEIN_LOCALIZATION	190	0.322343	1.06638	0.292216	0.607298	1	3499 tags=30%, list=22%, signal=38%	0.255585	0.867603	0.823952	0.893863	1	2909 tags=22%, list=18%, signal=27%
GSE17721_PAM3CSK4_VS_CPG_4H_B	175	0.317822	1.06631	0.316113	0.607097	1	1649 tags=17%, list=10%, signal=19%	0.236405	0.798918	0.941103	0.957363	1	3814 tags=29%, list=24%, signal=37%
GSE22886_DAY0_VS_DAY7_MONOCY	181	0.3195	1.06609	0.307039	0.60743	1	2913 tags=28%, list=18%, signal=33%	0.415518	1.39458	0.00493827	0.195984	1	3492 tags=43%, list=22%, signal=54%
GSE360_T_GONDII_VS_B_MALAYI_HI	171	0.322676	1.06601	0.319809	0.607245	1	2441 tags=22%, list=15%, signal=26%	0.280878	0.945561	0.589809	0.791815	1	2232 tags=21%, list=14%, signal=24%
GSE17721_POLYIC_VS_PAM3CSK4_16	174	0.324444	1.06584	0.335793	0.607428	1	2894 tags=24%, list=18%, signal=28%	0.366532	1.23686	0.0623441	0.378538	1	4114 tags=38%, list=26%, signal=50%
GSE15659_NAIVE_CD4_TCELL_VS_AC	153	0.32229	1.06569	0.323277	0.60705	1	1911 tags=17%, list=12%, signal=19%	0.298443	0.998922	0.449312	0.742275	1	1801 tags=13%, list=11%, signal=15%
GSE17721_LPS_VS_GARDIQUIMOD_0	174	0.321337	1.06531	0.309809	0.608391	1	3316 tags=29%, list=21%, signal=36%	-0.287088	-1.1082	0.122066	0.511678	1	2906 tags=28%, list=18%, signal=34%
REGULATION_OF_DNA_REPLICATION	18	0.465711	1.06508	0.382003	0.608755	1	4057 tags=44%, list=25%, signal=59%	0.362299	0.84618	0.695727	0.913272	1	154 tags=11%, list=1%, signal=11%
GSE17721_0.5H_VS_24H_LPS_BMDM	175	0.319911	1.06495	0.307786	0.608706	1	2855 tags=23%, list=18%, signal=28%	0.249832	0.846265	0.868812	0.913569	1	3778 tags=29%, list=24%, signal=37%
GSE17721_LPS_VS_CPG_8H_BMDM_I	175	0.322224	1.06467	0.315663	0.609192	1	3315 tags=28%, list=21%, signal=30%	-0.254457	-0.940177	0.661836	0.77754	1	1183 tags=14%, list=7%, signal=15%
GSE17721_POLYIC_VS_GARDIQUIMOI	175	0.321405	1.06454	0.30605	0.609322	1	3356 tags=30%, list=21%, signal=38%	-0.263734	-1.00627	0.387435	0.640516	1	2570 tags=27%, list=16%, signal=32%
GSE22886_NAIVE_CD8_TCELL_VS_NK	174	0.318372	1.06429	0.309466	0.609744	1	4066 tags=37%, list=25%, signal=49%	0.276239	0.93337	0.626238	0.807527	1	2418 tags=22%, list=15%, signal=25%
HEMATOPOIETIN_INTERFERON_CLAS	29	0.421217	1.06412	0.361669	0.609861	1	2169 tags=28%, list=14%, signal=32%	0.361553	0.939757	0.565428	0.800015	1	1504 tags=21%, list=9%, signal=23%
GSE17721_0.5H_VS_4H_LPS_BMDM	176	0.321185	1.06369	0.320197	0.611055	1	3492 tags=29%, list=22%, signal=37%	0.302539	1.0226	0.406948	0.704557	1	3576 tags=35%, list=22%, signal=44%
GSE8384_CTR_VS_B_ABORTUS_4H_I	170	0.321636	1.06343	0.323565	0.615144	1	3263 tags=28%, list=20%, signal=35%	0.307662	1.02584	0.397985	0.702006	1	2577 tags=25%, list=16%, signal=30%
GLUCOSE_METABOLIC_PROCESS	27	0.421321	1.06335	0.369969	0.611386	1	2718 tags=37%, list=17%, signal=45%	0.476507	1.20685	0.176012	0.42174	1	2267 tags=33%, list=14%, signal=39%
GSE36476_YOUNG_OVLD_DONOR	164	0.3218	1.0628	0.337379	0.612873	1	3144 tags=19%, list=20%, signal=23%	0.342873	1.14292	0.152393	0.506779	1	2680 tags=19%, list=17%, signal=22%
GSE9006_HEALTHY_VS_TYPE_1_DIAB	179	0.320294	1.06276	0.325153	0.612551	1	4141 tags=38%, list=26%, signal=51%	0.347977	1.17541	0.13325	0.453877	1	3009 tags=34%, list=19%, signal=41%
MONOCARBOXYLIC_ACID_METABOLIK	81	0.348591	1.06273	0.334722	0.612182	1	2499 tags=21%, list=16%, signal=25%	0.391904	1.1977	0.164238	0.431819	1	2548 tags=27%, list=16%, signal=32%
GSE27786_BCELL_VS_NKTCELL_CDN	171	0.319581	1.06266	0.326269	0.611997	1	3495 tags=33%, list=22%, signal=41%	0.331968	1.11701	0.212687	0.541027	1	2991 tags=28%, list=19%, signal=34%
GSE27786_BCELL_VS_NKTCELL_UP	181	0.315812	1.0624	0.328199	0.612556	1	2701 tags=25%, list=17%, signal=30%	0.333154	1.11663	0.204082	0.541798	1	3051 tags=32%, list=19%, signal=39%
GSE24142_ADULT_VS_FETAL_EARLY	182	0.315642	1.06215	0.299757	0.612954	1	1604 tags=16%, list=10%, signal=18%	0.342297	1.16053	0.145122	0.479971	1	2815 tags=25%, list=18%, signal=30%
GSE13306_TREG_VS_TCONV_SPLEEN	177	0.31915	1.06193	0.343321	0.61328	1	2663 tags=23%, list=17%, signal=27%	-0.32963	-1.27196	0.026455	0.358988	1	2675 tags=29%, list=17%, signal=34%
GSE1448_CTR_VS_ANTI_VBETAS_DP	181	0.319914	1.06135	0.331314	0.614959	1	3381 tags=28%, list=21%, signal=35%	0.347167	1.17	0.132191	0.465726	1	2555 tags=27%, list=16%, signal=32%
CELLULAR_RESPONSE_TO_STIMULUS	18	0.457555	1.061	0.399046	0.615741	1	1140 tags=17%, list=7%, signal=18%	0.609047	1.42208	0.0428816	0.17039	1	2551 tags=39%, list=16%, signal=46%
GSE7852_LN_VS_THYMUS_TREG_UP	166	0.321958	1.06091	0.327228	0.615598	1	3401 tags=33%, list=21%, signal=41%	-0.281439	-1.07733	0.22798	0.539638	1	1786 tags=22%, list=11%, signal=25%
GSE26669_CD4_VS_CD8_TCELL_IN_N	182	0.319185	1.0606	0.329146	0.616223	1	2589 tags=23%, list=16%, signal=27%	0.32085	1.08286	0.282903	0.599305	1	2667 tags=25%, list=17%, signal=29%
GLYCOPROTEIN_BYOSYNTHETIC_PROC	71	0.358816	1.06057	0.347398	0.615854	1	3335 tags=32%, list=21%, signal=41%	0.391458	1.1717	0.181047	0.462546	1	1598 tags=15%, list=10%, signal=17%
GSE32423_I2L_VS_IIL4_MEMORY	178	0.318572	1.06053	0.323346	0.615498	1	3319 tags=29%, list=21%, signal=36%	-0.346113	-1.33138	0	0.327937	1	2586 tags=32%, list=16%, signal=38%
GSE30083_SP2_VS_SP4_THYMOCYTE	172	0.320235	1.05952	0.32177	0.618792	1	3649 tags=27%, list=23%, signal=34%	0.382688	1.28684	0.0339623	0.30689	1	2266 tags=16%, list=14%, signal=19%
GSE19825_NAIVE_CD8_VS_ILRAHIGH_DA	167	0.322025	1.05923	0.344654	0.619374	1	3225 tags=20%, list=20%, signal=24%	-0.325045	-1.22726	0.0432432	0.392083	1	3182 tags=22%, list=20%, signal=27%
RESPONSE_TO_ORGANIC_SUBSTANCE	26	0.426682	1.05913	0.388626	0.619284	1	4914 tags=46%, list=31%, signal=66%	0.431826	1.08441	0.343598	0.597327	1	1541 tags=23%, list=10%, signal=25%
GSE17721_LPS_VS_GARDIQUIMOD_2	178	0.318651	1.05904	0.332518	0.619111	1	3131 tags=25%, list=20%, signal=31%	0.354232	1.1983	0.10111	0.432501	1	3550 tags=31%, list=22%, signal=39%
GSE17721_CPG_VS_GARDIQUIMOD_-	175	0.319473	1.05886	0.341463	0.619306	1	3814 tags=32%, list=24%, signal=42%	0.356723	1.20681	0.0909091	0.421192	1	3017 tags=31%, list=19%, signal=38%
GSE17721_LPS_VS_POLYIC_24H_BMC	184	0.316405	1.05884	0.328144	0.618902	1	3233 tags=27%, list=20%, signal=34%	0.285554	0.965299	0.56015	0.722907	1	2974 tags=24%, list=19%, signal=30%
PROTEIN_COMPLEX_ASSEMBLY	146	0.326657	1.05878	0.334596	0.618659	1	3317 tags=30%, list=21%, signal=38%	0.254627	0.838857	0.857868	0.915304	1	2571 tags=20%, list=16%, signal=23%
CARBOHYDRATE_TRANSPORT	19	0.447212	1.05839	0.3808	0.619597	1	2599 tags=32%, list=16%, signal=38%	0.370161	0.866477	0.65042	0.895284	1	320 tags=11%, list=8%, signal=11%
GSE15930_STIM_VS_STIM_AND_IFNA	175	0.323441	1.05823	0.344619	0.619738	1	2074 tags=17%, list=13%, signal=19%	0.321199	1.07853	0.277916	0.60349	1	3057 tags=24%, list=19%, signal=29%
GSE39820_CTRL_VS_TGFbeta1_IL6_C	181	0.319535	1.05822	0.33701	0.619301	1	2667 tags=23%, list=16%, signal=27%	-0.256003	-0.994011	0.437126	0.667989	1	2793 tags=31%, list=17%, signal=37%
COFACTOR_BYOSYNTHETIC_PROCESS	20	0.452934	1.05812	0.384615	0.619203	1	1018 tags=25%, list=6%, signal=27%	-0.361479	-0.942003	0.553398	0.775387	1	3326 tags=40%, list=21%, signal=50%
NEUROTRANSMITTER_RECEPTOR_AC	46	0.376629	1.05777	0.362146	0.620008	1	1893 tags=11%, list=12%, signal=12%	0.279621	0.783172	0.843703	0.969274	1	4042 tags=17%, list=25%, signal=23%
GSE10239_MEMORY_VS_KLRG1NT_E	174	0.317807	1.05765	0.326431	0.620032	1	3821 tags=38%, list=24%, signal=49%	0.309742	1.05264	0.3275	0.657942	1	2475 tags=25%, list=15%, signal=30%
GSE2072_2H_VS_BH_R848_AND_LPS	174	0.315454	1.05702	0.334143	0.621896	1	3128 tags=29%, list=19%, signal=35%	0.299095	1.01131	0.458073	0.726693	1	3608 tags=35%, list=22%, signal=45%
GSE11924_TH2_VS_H17_CD4_TCELL	172	0.320995	1.05674	0.336175	0.622397	1	3651 tags=31%, list=23%, signal=39%	0.190016	0.637405	1	5102 tags=32%, list=32%, signal=46%		
GSE22886_TH1_VS_H2_48H_ACT_U	174	0.319491	1.05661	0.328818	0.62237								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE22886_DAY1_VS_DAY7_MONOCY	180	0.318094	1.05196	0.349091	0.628707	1	3925 tags=34%, list=24%, signal=45%	0.253209	0.852238	0.85283	0.905716	1	3500 tags=29%, list=22%, signal=37%
GSE3982_BASOPHIL_VS_TH1_DN	180	0.316605	1.05091	0.371324	0.631942	1	3582 tags=31%, list=22%, signal=39%	0.420169	1.43483	0.00361882	0.160516	1	3609 tags=36%, list=22%, signal=46%
GSE1432_1H_VS_6H_INFNG_MICROGL	171	0.317261	1.0507	0.360339	0.632225	1	2822 tags=24%, list=18%, signal=29%	0.290049	0.983075	0.501211	0.754706	1	2878 tags=27%, list=18%, signal=33%
DEFENSE_RESPONSE_TO_BACTERIUM	20	0.446164	1.05065	0.378931	0.631918	1	3590 tags=35%, list=22%, signal=45%	0.308648	0.738425	0.85828	0.987883	1	1950 tags=15%, list=12%, signal=17%
GSE17721_POLYIC_VS_PAM3CSK4_6F	177	0.314515	1.05061	0.351117	0.631632	1	3186 tags=30%, list=20%, signal=37%	0.304329	1.0293	0.377312	0.700611	1	2530 tags=25%, list=16%, signal=30%
POSITIVE_REGULATION_OF_MULTICE	59	0.360923	1.05049	0.382646	0.631642	1	2318 tags=24%, list=14%, signal=28%	0.438481	1.29416	0.0802292	0.297005	1	2704 tags=32%, list=17%, signal=39%
REGULATION_OF_IMMUNE_RESPONS	28	0.416115	1.05048	0.383117	0.631189	1	2184 tags=32%, list=14%, signal=37%	0.389246	0.997061	0.455975	0.744857	1	2216 tags=25%, list=14%, signal=29%
GSE17670_N_GONDII_VS_B_MALAYI_LO	174	0.318692	1.0502	0.353448	0.631798	1	2942 tags=25%, list=18%, signal=30%	0.330111	1.10387	0.252427	0.556129	1	3644 tags=29%, list=23%, signal=38%
GSE3982_BCELL_VS_EFF_MEMORY_C	168	0.318208	1.05018	0.352449	0.631405	1	2592 tags=18%, list=16%, signal=21%	0.269668	0.89404	0.721739	0.864461	1	3251 tags=23%, list=20%, signal=29%
GSE15750_WT_VS_TRAF6KO_DAY10_	168	0.316497	1.05011	0.34878	0.631166	1	3743 tags=22%, list=23%, signal=28%	0.246895	0.823951	0.890644	0.932056	1	4058 tags=20%, list=25%, signal=26%
GSE3982_BCELL_VS_NKCELL_DN	160	0.316846	1.05011	0.356098	0.630716	1	3197 tags=23%, list=20%, signal=29%	0.297635	0.99296	0.468992	0.749528	1	3169 tags=21%, list=20%, signal=26%
NEGATIVE_REGULATION_OF_CELL_CV	72	0.352964	1.05009	0.359833	0.630306	1	2458 tags=25%, list=15%, signal=29%	0.262162	-0.886524	0.719298	0.891833	1	1584 tags=17%, list=10%, signal=18%
GSE29618_PRE_VS_DAY7_FLU_VACCI	165	0.319789	1.04999	0.325898	0.630206	1	2151 tags=19%, list=13%, signal=21%	0.336543	1.11735	0.220443	0.54204	1	3363 tags=32%, list=21%, signal=40%
GSE11864_PAM3CSK4_CSF1	156	0.319867	1.04983	0.338217	0.630346	1	3367 tags=32%, list=21%, signal=40%	0.328138	1.09657	0.261364	0.568689	1	2826 tags=28%, list=18%, signal=34%
GSE17721_POLYIC_VS_CPG_12H_BMI	177	0.316301	1.0493	0.368675	0.631842	1	3045 tags=27%, list=19%, signal=33%	0.287916	0.965216	0.53706	0.772685	1	3469 tags=30%, list=22%, signal=38%
GSE1432_CTRL_VS_INFNG_6H_MICROG	172	0.316069	1.04982	0.335784	0.631305	1	3214 tags=32%, list=20%, signal=40%	0.283941	0.953831	0.569667	0.781763	1	2966 tags=26%, list=18%, signal=32%
GSE29618_PRE_VS_DAY7_FLU_VACCI	171	0.317598	1.04881	0.34303	0.632691	1	2458 tags=23%, list=15%, signal=27%	0.281684	-1.08118	0.198068	0.53855	1	2663 tags=31%, list=17%, signal=37%
CALCIUM_MEDIATED_SIGNALING	15	0.464626	1.0485	0.400332	0.633305	1	3804 tags=60%, list=24%, signal=79%	0.476033	1.09	0.341098	0.582871	1	2514 tags=33%, list=16%, signal=39%
GSE39820_TGFbeta1_VS_TGFbeta3	170	0.318038	1.04847	0.342823	0.632946	1	2252 tags=24%, list=14%, signal=24%	0.304049	1.02368	0.409147	0.704479	1	2546 tags=23%, list=16%, signal=27%
GSE27786_NEUTROPHIL_VS_MONO_I	180	0.312826	1.04821	0.343498	0.633394	1	2887 tags=24%, list=18%, signal=29%	0.31583	1.05378	0.350746	0.657115	1	2437 tags=22%, list=15%, signal=26%
GSE3982_MAC_VS_TH1_DN	173	0.314882	1.04816	0.354567	0.633097	1	3534 tags=31%, list=22%, signal=40%	0.407427	1.37434	0.00758534	0.213804	1	2802 tags=31%, list=17%, signal=37%
GSE17721_CTRL_VS_LPS_BH_BMDM	175	0.316843	1.04814	0.339004	0.632733	1	2952 tags=20%, list=18%, signal=24%	0.30505	1.02939	0.378213	0.700863	1	3444 tags=25%, list=21%, signal=32%
GSE17974_IL4_AND_ANTI_IL12_VS_U	147	0.322871	1.04811	0.353015	0.632372	1	3555 tags=35%, list=22%, signal=45%	0.442072	1.4758	0	0.137251	1	3485 tags=41%, list=22%, signal=52%
PROTEIN_TARGETING	96	0.338033	1.04807	0.368421	0.632055	1	3230 tags=29%, list=20%, signal=36%	0.243828	-0.869102	0.82963	0.917108	1	2810 tags=28%, list=18%, signal=34%
GSE20715_OH_VS_24H_OZONE_LUNC	176	0.314758	1.04807	0.356971	0.631599	1	3615 tags=32%, list=23%, signal=41%	0.278167	0.941046	0.610487	0.800327	1	2075 tags=19%, list=13%, signal=22%
GSE17721_LPS_VS_POLYIC_0.5H_BMI	175	0.316133	1.04787	0.332521	0.631904	1	2841 tags=22%, list=18%, signal=26%	0.353813	1.19565	0.105721	0.433627	1	3297 tags=29%, list=21%, signal=36%
GSE15324_NAIVE_VS_ACTIVATED_EU	182	0.312745	1.04777	0.355664	0.631829	1	2157 tags=20%, list=13%, signal=23%	0.283147	0.958106	0.579336	0.778138	1	2110 tags=19%, list=13%, signal=21%
GSE360_T_GONDII_VS_M_TUBERCUL	173	0.313078	1.04751	0.353939	0.632326	1	2327 tags=19%, list=14%, signal=22%	0.394511	1.32932	0.0212235	0.262381	1	2947 tags=32%, list=18%, signal=39%
GSE17721_CPG_VS_GARDIQUIMOD_-	171	0.317507	1.04738	0.351351	0.632288	1	3167 tags=25%, list=20%, signal=30%	0.320309	1.07988	0.297092	0.602778	1	1571 tags=15%, list=10%, signal=16%
NEGATIVE_REGULATION_OF_CELLUL	27	0.40699	1.04734	0.394578	0.631978	1	3890 tags=41%, list=24%, signal=54%	0.519868	1.32415	0.091047	0.268165	1	2711 tags=37%, list=17%, signal=44%
SECRETION_BY_CELL	108	0.333319	1.04717	0.347479	0.632101	1	3134 tags=29%, list=20%, signal=35%	0.367888	1.18149	0.153642	0.448906	1	2919 tags=27%, list=18%, signal=33%
GSE7460_WT_VS_FOXP3_HET_ACT_V	172	0.315356	1.04709	0.360451	0.631906	1	3306 tags=28%, list=21%, signal=35%	0.336973	1.13669	0.196782	0.516171	1	2682 tags=26%, list=17%, signal=31%
GSE17721_CTRL_VS_CPG_8H_BMDM	180	0.315219	1.0469	0.35732	0.632128	1	3949 tags=34%, list=25%, signal=44%	0.278235	0.939211	0.608589	0.800233	1	3498 tags=26%, list=22%, signal=33%
GSE17721_CTRL_VS_LPS_2H_BMDM	178	0.317183	1.04665	0.365291	0.632518	1	3493 tags=25%, list=22%, signal=31%	0.256348	0.895765	0.798535	0.898813	1	3512 tags=26%, list=22%, signal=33%
GSE339_EX_VIVO_VS_IN_CULTURE_C	180	0.312887	1.04664	0.338554	0.632105	1	2644 tags=22%, list=16%, signal=26%	0.307004	1.04518	0.355528	0.675413	1	4001 tags=33%, list=25%, signal=44%
MICROTUBULE_BASED_PROCESS	73	0.350073	1.0465	0.369444	0.632142	1	1350 tags=15%, list=8%, signal=16%	0.394396	1.20351	0.144663	0.425785	1	3734 tags=37%, list=23%, signal=48%
GSE17974_IL4_AND_ANTI_IL12_VS_U	152	0.320569	1.04567	0.365824	0.634602	1	3103 tags=28%, list=19%, signal=34%	0.258133	-0.985586	0.507389	0.683846	1	2461 tags=20%, list=15%, signal=23%
GSE24632_IL4_VS_CTRL_TREATED_NJ	174	0.316036	1.04563	0.365707	0.634326	1	2581 tags=25%, list=16%, signal=29%	0.352029	1.19046	0.118727	0.439246	1	3488 tags=35%, list=22%, signal=44%
GSE7852_TREG_VS_TCINV_THYMUS	176	0.313756	1.04562	0.355911	0.635452	1	2686 tags=22%, list=17%, signal=26%	0.341247	-1.32096	0.0103093	0.345006	1	2683 tags=27%, list=17%, signal=32%
GSE360_HIGH_VS_LOW_DOSE_B_MA	180	0.315492	1.04509	0.346618	0.635322	1	4188 tags=36%, list=26%, signal=48%	0.413483	1.38731	0.00955794	0.200127	1	3471 tags=37%, list=22%, signal=46%
GOLDROTNAIVE_VS_MEMORY_CDI	177	0.314777	1.04484	0.344242	0.635799	1	3055 tags=30%, list=19%, signal=37%	0.314863	1.05186	0.330073	0.641507	1	2606 tags=27%, list=16%, signal=32%
GSE39820_CTRL_VS_IL1B_IL6_L23A_	187	0.313062	1.04476	0.368165	0.635659	1	2813 tags=26%, list=18%, signal=31%	0.29775	1.01087	0.432161	0.726076	1	3273 tags=31%, list=20%, signal=39%
GSE9988_LPS_VS_CTRL_TREATED_MC	171	0.31033	1.04473	0.348808	0.635312	1	3208 tags=29%, list=20%, signal=36%	0.371059	1.2476	0.0491184	0.362138	1	2434 tags=29%, list=15%, signal=34%
GSE27786_LSK_VS_NEGATIVEL_CD	177	0.313542	1.04467	0.347138	0.635073	1	3830 tags=33%, list=24%, signal=43%	0.264601	0.894041	0.73875	0.864946	1	2088 tags=17%, list=13%, signal=19%
DNA_DAMAGE_RESPONSESIGNATR	31	0.405194	1.04366	0.391036	0.638289	1	3979 tags=45%, list=25%, signal=60%	0.318443	-0.91325	0.611413	0.836272	1	2805 tags=29%, list=17%, signal=35%
GSE17721_0.5H_VS_4H_POLYIC_BMC	183	0.312992	1.04352	0.352026	0.638401	1	3279 tags=29%, list=20%, signal=36%	0.283864	0.9635	0.56801	0.773834	1	3258 tags=28%, list=20%, signal=35%
GSE17721_POLYIC_VS_GARDIQUIMOI	174	0.316826	1.04305	0.365501	0.639651	1	2983 tags=25%, list=19%, signal=30%	0.302756	0.965374	0.552795	0.77316	1	3456 tags=29%, list=22%, signal=37%
HEMOPOEIOSIS	66	0.352429	1.04259	0.386779	0.640807	1	2427 tags=23%, list=15%, signal=27%	0.309243	0.921225	0.599419	0.827138	1	2667 tags=27%, list=17%, signal=33%
GSE17721_PAM3CSK4_VS_CPG_12H	183	0.311618	1.04198	0.367521	0.642459	1	2820 tags=24%, list=18%, signal=29%	0.244888	-0.951079	0.610256	0.76649	1	3177 tags=29%, list=20%, signal=36%
GSE36476_CTRL_VS_TSST_ACT_40H_	167	0.315262	1.04176	0.379352	0.642913	1	3458 tags=33%, list=22%, signal=42%	0.404544	-1.5372	0	0.310915	0.996	2384 tags=37%, list=15%, signal=42%
PROTEIN_TRANSPORT	138	0.321617	1.04159	0.358134	0.643123	1	3499 tags=30%, list=22%, signal=39%	0.275417	-1.02817	0.337255	0.614826	1	2819 tags=30%, list=18%, signal=37%
POLYSACCHARIDE_METABOLIC_PROC	16	0.465007	1.04115	0.412564	0.644231	1	1708 tags=25%, list=11%, signal=28%	0.386908	0.874023	0.633731	0.890267	1	2133 tags=38%, list=13%, signal=43%
GSE17721_CTRL_VS_PCG_8H_BML	181	0.312737	1.04097	0.37637	0.644404	1	2633 tags=23%, list=16%, signal=27%	0.328306	1.10613	0.231156	0.554871	1	3569 tags=36%, list=22%, signal=46%
GSE17721_LPS_VS_PCG_6H_BMDM_I	182	0.312384	1.04066	0.367981	0.645063	1	3198 tags=24%, list=20%, signal=30%	0.3391	1.14554	0.164331	0.500056	1	3488 tags=31%, list=22%, signal=40%
GSE17974_OH_VS_72H_IN_VITRO_AC	164	0.319074	1.04059	0.368675	0.644889	1	1990 tags=22%, list=12%, signal=25%	0.275383	-1.0451	0.338164	0.591866	1	2462 tags=25%, list=15%, signal=29%
GSE13484_UNSTIM_TS_3H_YF17D_V	175	0.313928	1.04048	0.388206	0.644804	1	3812 tags=34%, list=24%, signal=44%	0.226549	-0.868186	0.947115	0.917777	1	1716 tags=15%, list=11%, signal=16%
POSITIVE_REGULATION_OF_CYTOKINI	25	0.416612	1.04014	0.387755	0.645566	1	3461 tags=44%, list=22%, signal=56%	0.295003	-0.818881	0.78961	0.980061	1	3388 tags=36%, list=21%, signal=46%
GSE19825_NAIVE_VS_BILARLOW_DA	166	0.318746											

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE17721_CPG_VS_GARDIQUIMOD_	172	0.309993	1.03209	0.394673	0.66364	1	3126 tags=26%, list=19%, signal=31%	0.249014	0.833209	0.858173	0.922793	1	3717 tags=30%, list=23%, signal=39%
GSE13306_LAMINA_PROPRIA_VS_SPL	167	0.314121	1.03156	0.380124	0.66507	1	2349 tags=20%, list=15%, signal=24%	0.311555	1.05423	0.33376	0.656483	1	3433 tags=26%, list=21%, signal=32%
REPLICATION_FORK	16	0.460079	1.03144	0.42	0.665024	1	3251 tags=44%, list=20%, signal=55%	0.421172	0.968647	0.497545	0.774845	1	2228 tags=44%, list=14%, signal=51%
GSE13485_DAY1_VS_DAY21_YF17D_	153	0.31378	1.03131	0.394969	0.665006	1	2145 tags=23%, list=13%, signal=26%	0.397233	1.29374	0.304482	0.29663	1	3527 tags=37%, list=22%, signal=46%
GSE22886_CTRL_VS_LPS_24H_DC_UP	184	0.308055	1.03104	0.398252	0.665518	1	3419 tags=33%, list=21%, signal=42%	-0.281521	-1.09804	0.162921	0.524472	1	2771 tags=33%, list=17%, signal=40%
GSE17721_CTRL_VS_PAM3CSK4_12H_BML	176	0.309448	1.03104	0.397327	0.665059	1	4335 tags=37%, list=27%, signal=50%	0.316155	1.07696	0.312195	0.627887	1	2595 tags=20%, list=16%, signal=23%
GSE27786_NKCELL_VS_NEUTROPHIL	182	0.313535	1.03097	0.398551	0.664876	1	2727 tags=24%, list=17%, signal=28%	0.277751	0.935331	0.638376	0.804697	1	3002 tags=25%, list=19%, signal=30%
GSE17721_POLYIC_VS_CPG_16H_BML	178	0.311763	1.03087	0.393682	0.664753	1	2906 tags=25%, list=18%, signal=30%	0.288756	0.972641	0.534568	0.77106	1	3537 tags=30%, list=22%, signal=38%
HEMOPOETIC_OR_LYMPHOID_ORGA	67	0.349278	1.03063	0.409471	0.665103	1	2427 tags=22%, list=15%, signal=26%	0.319632	0.93945	0.562319	0.799963	1	2667 tags=28%, list=17%, signal=34%
TUBULIN_BINDING	41	0.379928	1.03057	0.405248	0.664867	1	4261 tags=44%, list=27%, signal=60%	0.305482	0.848091	0.738061	0.911252	1	2841 tags=20%, list=18%, signal=24%
GSE30083_SP1_VS_SP3_THYMOCYTE	172	0.307856	1.03024	0.39766	0.665583	1	3179 tags=27%, list=20%, signal=34%	0.297771	0.998262	0.475248	0.743176	1	3011 tags=25%, list=19%, signal=30%
GSE17721_CTRL_VS_PAM3CSK4_12H_I	174	0.310489	1.02996	0.393325	0.666117	1	3079 tags=25%, list=19%, signal=31%	0.332286	1.12252	0.211735	0.533316	1	3875 tags=35%, list=24%, signal=46%
GSE17721_CTRL_VS_POLYIC_8H_BML	176	0.310651	1.0298	0.388134	0.666228	1	3364 tags=27%, list=21%, signal=33%	0.290059	0.985526	0.5	0.750332	1	2021 tags=16%, list=13%, signal=18%
CENTROSOME	49	0.362307	1.0296	0.403927	0.666471	1	4272 tags=47%, list=27%, signal=64%	0.485103	1.38971	0.0436747	0.200771	1	2569 tags=35%, list=16%, signal=41%
GSE17721_POLYIC_VS_PAM3CSK4_16	176	0.308823	1.02937	0.390097	0.666876	1	3055 tags=27%, list=19%, signal=33%	0.283319	0.956488	0.567702	0.778968	1	3429 tags=32%, list=21%, signal=41%
GSE3982_CTRL_VS_LPS_4H_MAC_DN	174	0.312155	1.02933	0.381127	0.666551	1	3685 tags=32%, list=23%, signal=41%	-0.29523	-1.15138	0.08	0.466399	1	1867 tags=22%, list=12%, signal=24%
POLYSACCHARIDE_BINDING	31	0.400667	1.02903	0.430793	0.667258	1	1019 tags=16%, list=6%, signal=17%	-0.39606	-1.14864	0.228261	0.466133	1	1598 tags=19%, list=10%, signal=21%
GSE14000_UNSTIM_VS_16H_LPS_DC	177	0.309886	1.02887	0.379762	0.667358	1	3147 tags=31%, list=20%, signal=38%	0.332988	1.13404	0.17402	0.516675	1	2738 tags=29%, list=17%, signal=35%
GSE22886_UNSTIM_VS_L2_STIM_NK	163	0.316085	1.02834	0.385876	0.666802	1	4052 tags=35%, list=25%, signal=46%	0.280593	0.949575	0.600506	0.787273	1	2102 tags=21%, list=13%, signal=24%
CELLULAR_COMPONENT_ASSEMBLY	263	0.29901	1.02806	0.401368	0.669317	1	3425 tags=27%, list=21%, signal=33%	0.22505	0.782585	0.977354	0.96863	1	2246 tags=16%, list=14%, signal=19%
GSE32423_MEMORY_VS_NAIVE_CD8	175	0.307056	1.02805	0.395291	0.668869	1	3295 tags=27%, list=21%, signal=34%	-0.311618	-1.19581	0.0533981	0.430685	1	2907 tags=27%, list=18%, signal=33%
KINETOCORE	24	0.416722	1.02772	0.433225	0.669626	1	3086 tags=33%, list=19%, signal=41%	0.421547	1.03138	0.434713	0.696725	1	2412 tags=33%, list=15%, signal=39%
GSE2708_UNSTIM_VS_2H_LPS_DC_U	145	0.316346	1.02767	0.401741	0.669394	1	2811 tags=18%, list=18%, signal=33%	0.369064	1.22727	0.0848101	0.387516	1	3067 tags=30%, list=19%, signal=36%
GSE3982_EFF_MEMORY_CD4_TCELL	169	0.310806	1.02748	0.405237	0.669528	1	2045 tags=18%, list=13%, signal=20%	-0.305153	-1.17783	0.0721154	0.445312	1	2211 tags=23%, list=14%, signal=26%
GSE17721_CTRL_VS_PAM3CSK4_24H	179	0.307749	1.02739	0.41	0.669377	1	4385 tags=36%, list=27%, signal=49%	0.300321	1.0123	0.426966	0.726898	1	2944 tags=24%, list=18%, signal=29%
GSE17721_CTRL_VS_CPG_24H_BMDM	175	0.310825	1.02726	0.405797	0.669373	1	2536 tags=19%, list=16%, signal=22%	0.341052	1.1601	0.160736	0.480349	1	2926 tags=26%, list=18%, signal=31%
GSE360_CTRL_VS_L_DONOVANI_DC	176	0.309582	1.02722	0.420097	0.669039	1	3523 tags=33%, list=22%, signal=42%	0.339147	1.14041	0.183063	0.510726	1	2429 tags=26%, list=15%, signal=30%
GSE19825_NAIVE_VS_JLZRALOW_DA	180	0.310355	1.02702	0.405978	0.669264	1	3119 tags=15%, list=19%, signal=18%	-0.281418	-1.07951	0.169811	0.53886	1	2865 tags=18%, list=18%, signal=22%
GSE17721_LPS_VS_PAM3CSK4_4H_BI	178	0.303808	1.0262	0.387931	0.671746	1	3941 tags=33%, list=25%, signal=43%	0.253131	0.855866	0.832313	0.904129	1	2533 tags=24%, list=16%, signal=28%
NUCLEOTIDE_BYOSYNTHETIC_PROCES	17	0.462073	1.02619	0.445561	0.671322	1	3516 tags=47%, list=22%, signal=60%	0.413782	0.949129	0.528109	0.788266	1	1419 tags=12%, list=9%, signal=13%
REGULATION_OF_HYDROLASE_ACTIV	72	0.339623	1.02617	0.408392	0.670947	1	3480 tags=31%, list=22%, signal=30%	0.316476	0.951503	0.568245	0.785465	1	2549 tags=19%, list=16%, signal=23%
HOMEOSTASIS_OF_NUMBER_OFCEL	19	0.440314	1.02588	0.444089	0.67151	1	4929 tags=58%, list=31%, signal=83%	-0.514688	-1.28354	0.137566	0.352899	1	1817 tags=42%, list=11%, signal=47%
GSE27786_LSK_VS_NKCELL_UP	173	0.310315	1.02581	0.413751	0.671275	1	3276 tags=30%, list=20%, signal=37%	0.460108	1.15207	0	0.0941256	1	2346 tags=27%, list=15%, signal=31%
REGULATION_OF_ACTION_POTENTIAL	17	0.446113	1.02572	0.418301	0.671154	1	1082 tags=12%, list=7%, signal=13%	0.4406	1.02595	0.412069	0.702136	1	1436 tags=24%, list=9%, signal=26%
GSE22886_DAY1_VS_DAY7_MONOCY	174	0.307702	1.02548	0.404822	0.671523	1	3414 tags=30%, list=21%, signal=38%	-0.242271	-0.9335693	0.733333	0.787703	1	2489 tags=21%, list=16%, signal=25%
GSE14769_UNSTIM_VS_60MIN_LPS_I	174	0.309559	1.0254	0.405172	0.671331	1	4313 tags=38%, list=27%, signal=51%	0.300477	1.00944	0.43309	0.728123	1	3941 tags=32%, list=25%, signal=41%
INTRACELLULAR_PROTEIN_TRANSPOR	127	0.316432	1.02528	0.414343	0.671346	1	3499 tags=30%, list=22%, signal=38%	-0.258296	-0.961148	0.545064	0.745972	1	2819 tags=30%, list=18%, signal=36%
EXOCYTOSIS	23	0.418655	1.02521	0.435563	0.671534	1	2950 tags=26%, list=18%, signal=32%	0.331951	0.82161	0.761453	0.935777	1	2369 tags=17%, list=15%, signal=20%
GSE14769_UNSTIM_VS_40MIN_LPS_I	175	0.309151	1.02483	0.418773	0.672038	1	2580 tags=27%, list=16%, signal=32%	0.272921	0.916117	0.693774	0.833438	1	2019 tags=17%, list=13%, signal=19%
GSE17721_LPS_VS_GARDIQUIMOD_4	183	0.304851	1.02464	0.425273	0.672256	1	2742 tags=21%, list=17%, signal=25%	0.278992	0.939837	0.612624	0.800247	1	3408 tags=27%, list=21%, signal=34%
GSE3982_CTRL_VS_NKCELL_UP	168	0.311155	1.02321	0.426844	0.676839	1	2997 tags=28%, list=19%, signal=34%	0.291888	0.984274	0.494911	0.752692	1	1998 tags=20%, list=12%, signal=23%
GSE7460_WT_VS_FOXP3_HET_ACT_T	172	0.312195	1.02264	0.42204	0.678405	1	1939 tags=18%, list=12%, signal=20%	0.265461	0.892887	0.723965	0.866195	1	3600 tags=27%, list=22%, signal=35%
GSE8384_CTRL_VS_B_ABORTUS_4H_I	178	0.309821	1.02244	0.411043	0.678625	1	2750 tags=25%, list=17%, signal=30%	0.393562	1.32633	0.0232558	0.265083	1	3428 tags=38%, list=21%, signal=47%
GSE22045_TREG_VS_TCONV_DN	154	0.308378	1.02226	0.413709	0.678853	1	2771 tags=25%, list=17%, signal=30%	0.271729	0.901737	0.716456	0.851798	1	2586 tags=23%, list=16%, signal=27%
GSE11864_UNTREATED_VS_CSF1_IN	169	0.310725	1.02214	0.425558	0.678838	1	4028 tags=35%, list=25%, signal=46%	0.367038	1.22787	0.0725707	0.386214	1	3520 tags=37%, list=22%, signal=46%
GSE15930_NAIVE_VS_48H_IN_VITRO	183	0.307845	1.02107	0.436054	0.679984	1	3058 tags=26%, list=19%, signal=31%	0.486553	1.64495	0	0.0684313	0.909	2637 tags=38%, list=16%, signal=45%
HETEROCYCLE_METABOLIC_PROCESS	23	0.417551	1.02164	0.452033	0.679736	1	2066 tags=30%, list=13%, signal=35%	-0.421381	-1.13559	0.258856	0.468284	1	3150 tags=48%, list=20%, signal=59%
HYDROGENION_TRANSMEMBRANE_BRANE	25	0.407929	1.02156	0.409375	0.679574	1	1966 tags=20%, list=12%, signal=23%	0.30133	0.752682	0.835548	0.981557	1	2117 tags=20%, list=13%, signal=23%
GSE36392_ESOPHINOL_VS_MAC_L2	178	0.305809	1.02124	0.404412	0.679687	1	2571 tags=24%, list=16%, signal=28%	0.284431	0.95964	0.552296	0.777011	1	2976 tags=26%, list=19%, signal=31%
GSE34205_HEALTHY_VS_FLU_INF_INI	177	0.307539	1.02127	0.425091	0.679334	1	3108 tags=28%, list=19%, signal=35%	0.401862	1.3524	0.0136646	0.237687	1	2684 tags=31%, list=17%, signal=37%
GSE18791_CTRL_VS_NEWCASTLE_VIR	166	0.309063	1.02125	0.426844	0.679319	1	3380 tags=31%, list=21%, signal=39%	0.332739	1.12297	0.206683	0.533246	1	2778 tags=28%, list=17%, signal=34%
GSE17721_CTRL_VS_POLYIC_0.5H_BN	178	0.308408	1.02103	0.424266	0.679637	1	3102 tags=28%, list=19%, signal=34%	-0.253979	-0.96314	0.555556	0.738612	1	2348 tags=25%, list=15%, signal=29%
GPHOSPHOLIPASE_ACTIVITY	41	0.373309	1.02085	0.431496	0.679769	1	1778 tags=17%, list=11%, signal=19%	0.493995	1.37869	0.046024	0.207225	1	1677 tags=22%, list=10%, signal=24%
GOLGI_APPARATUS	204	0.299708	1.02051	0.409739	0.680507	1	3919 tags=31%, list=24%, signal=41%	0.387271	1.33141	0.0159314	0.261904	1	3633 tags=38%, list=23%, signal=49%
GSE17974_CTRL_VS_ACT_IL4_AND_A	157	0.313182	1.0203	0.442038	0.680781	1	2739 tags=24%, list=17%, signal=29%	-0.29393	-1.10841	0.158416	0.512695	1	1938 tags=22%, list=12%, signal=24%
GSE360_CTRL_VS_B_MALAYI_LOW_D	171	0.308411	1.02026	0.423171	0.680458	1	3957 tags=29%, list=25%, signal=38%	0.327809	1.09215	0.254729	0.578755	1	4167 tags=36%, list=26%, signal=48%
UBIQUITIN_PROTEIN_LIGASE_ACTIV	44	0.367777	1.01982	0.406706	0.681582	1	3403 tags=48%, list=21%, signal=60%	-0.405419	-1.26833	0.106918	0.365971	1	3010 tags=48%, list=19%, signal=59%
GSE339_CD4POS_VS_CD8POS_DC_IN	176	0.307217	1.01968	0.412195	0.68164								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE7460_CTRL_VS_FOXP3_OVEREXPF	172	0.305027	1.01495	0.44	0.688212	1	4223 tags=26%, list=26%, signal=35%	0.363048	1.23352	0.0788486	0.379646	1	1758 tags=16%, list=11%, signal=18%
GSE36392_MAC_VS_NEUTROPHIL_I2	176	0.306708	1.01478	0.44908	0.688367	1	2689 tags=20%, list=17%, signal=24%	0.350308	1.18008	0.13697	0.450582	1	2578 tags=19%, list=16%, signal=22%
GSE36476_CTRL_VS_TSST_ACT_40H_I	168	0.306988	1.01473	0.426108	0.688095	1	2856 tags=21%, list=18%, signal=25%	-0.307556	-1.17854	0.0613208	0.447422	1	1889 tags=26%, list=12%, signal=29%
GSE17721_CPG_VS_GARDIQUIMOD_I	184	0.307107	1.01458	0.433492	0.688163	1	3226 tags=30%, list=20%, signal=38%	0.262346	0.882027	0.769517	0.87879	1	3188 tags=27%, list=20%, signal=33%
GSE22886_IGA_VS_IGM_MEMORY_B	170	0.306712	1.01437	0.446494	0.688481	1	3228 tags=25%, list=20%, signal=31%	-0.238735	-0.922866	0.755319	0.812592	1	2365 tags=21%, list=15%, signal=24%
LIPASE_ACTIVITY	48	0.358487	1.01429	0.437592	0.688338	1	1778 tags=15%, list=11%, signal=16%	0.472483	1.34148	0.0844646	0.251283	1	1677 tags=19%, list=10%, signal=21%
GSE3982_DC_VS_NEUTROPHIL_DN	174	0.304271	1.01373	0.423174	0.68993	1	3202 tags=25%, list=20%, signal=31%	0.341923	1.15115	0.147561	0.491603	1	3030 tags=28%, list=19%, signal=34%
NEGATIVE_REGULATION_OF_CELLULAR	42	0.368334	1.01339	0.426883	0.690703	1	3103 tags=26%, list=19%, signal=32%	0.508521	1.41164	0.0309119	0.178502	1	2711 tags=33%, list=17%, signal=40%
GSE3982_DC_VS_MAC_LPS_STIM_UP	181	0.305264	1.01319	0.423313	0.690918	1	2744 tags=25%, list=17%, signal=30%	0.311951	1.04927	0.340606	0.663272	1	3246 tags=31%, list=20%, signal=38%
GSE17721_PAM3CSK4_VS_CPG_16H	181	0.304048	1.01239	0.420538	0.693318	1	3085 tags=25%, list=19%, signal=30%	0.355741	1.20305	0.0955882	0.426064	1	3813 tags=32%, list=24%, signal=42%
GSE20366_EX_VIVO_VS_DEC205_CO	175	0.303928	1.01223	0.438702	0.693419	1	2765 tags=23%, list=17%, signal=27%	0.287146	0.965841	0.550505	0.77458	1	4252 tags=29%, list=26%, signal=38%
CYTOSOLIC	185	0.300972	1.01211	0.417983	0.693381	1	3364 tags=27%, list=21%, signal=34%	0.338554	1.15581	0.144638	0.486877	1	2481 tags=23%, list=15%, signal=27%
GSE17721_CTRL_VS_CPG_2H_BMDM	172	0.303069	1.01189	0.415553	0.693678	1	1946 tags=15%, list=12%, signal=17%	0.250754	0.843165	0.84901	0.911676	1	4108 tags=27%, list=26%, signal=36%
PHOSPHORYLATION	288	0.290334	1.01107	0.428891	0.696017	1	3458 tags=27%, list=22%, signal=34%	-0.282331	-1.15193	0.0687023	0.466626	1	1971 tags=21%, list=12%, signal=24%
AXON_GUIDANCE	21	0.421463	1.01101	0.432787	0.695797	1	3118 tags=19%, list=19%, signal=24%	0.335402	0.817072	0.748815	0.940276	1	2190 tags=14%, list=14%, signal=17%
CARBOHYDRATE_METABOLIC_PROCESS	168	0.307067	1.01092	0.436183	0.695659	1	2863 tags=22%, list=18%, signal=27%	0.289196	0.97676	0.524715	0.763938	1	2775 tags=22%, list=17%, signal=26%
GSE29618_BCELL_VS_MONOCYTE_UF	154	0.308367	1.01081	0.440832	0.695581	1	2169 tags=21%, list=14%, signal=24%	-0.297017	-1.12398	0.130802	0.487177	1	1278 tags=22%, list=8%, signal=24%
GSE17721_CTRL_VS_LPS_24H_BMDM	180	0.30236	1.01079	0.449761	0.695197	1	3943 tags=36%, list=25%, signal=47%	-0.312264	-1.19854	0.0677966	0.429187	1	2789 tags=30%, list=17%, signal=36%
GSE17721_LPS_VS_PAM3CSK4_16H_I	177	0.302024	1.0106	0.431373	0.695451	1	3220 tags=27%, list=20%, signal=33%	0.252216	0.85423	0.837469	0.905694	1	2302 tags=19%, list=14%, signal=22%
SMALL_PROTEIN_CONJUGATING_ENZ	47	0.352981	1.01019	0.447059	0.696411	1	3403 tags=45%, list=21%, signal=57%	-0.408883	-1.30548	0.0529595	0.353424	1	3010 tags=47%, list=19%, signal=57%
GSE17721_CTRL_VS_LPS_24H_BMDM	184	0.301586	1.00982	0.443142	0.697269	1	3353 tags=30%, list=21%, signal=38%	0.26763	0.909345	0.694957	0.838987	1	4432 tags=39%, list=28%, signal=53%
GSE360_CTRL_VS_T_GONDII_DC_UP	176	0.304255	1.00965	0.438257	0.697379	1	3923 tags=35%, list=24%, signal=46%	-0.285484	-1.09978	0.156566	0.522282	1	2764 tags=28%, list=17%, signal=34%
CYTOKINE_BINDING	43	0.368558	1.00953	0.442167	0.697339	1	1478 tags=19%, list=9%, signal=20%	0.398702	1.10494	0.292754	0.554878	1	1557 tags=23%, list=10%, signal=26%
GSE17721_PAM3CSK4_VS_GADIQUIN	180	0.30233	1.00927	0.445844	0.697804	1	1777 tags=18%, list=11%, signal=20%	-0.263125	-1.02446	0.361257	0.621835	1	3372 tags=32%, list=21%, signal=40%
NEGATIVE_REGULATION_OF_PROTEIN	44	0.363764	1.00871	0.426301	0.699351	1	3103 tags=25%, list=19%, signal=31%	0.49992	1.40201	0.0361991	0.189858	1	2711 tags=32%, list=17%, signal=38%
GSE11924_TH1_VS_TH2_CD4_TCELL	177	0.303453	1.00792	0.456548	0.701677	1	3150 tags=25%, list=20%, signal=31%	0.281182	0.950494	0.602203	0.786822	1	2808 tags=21%, list=17%, signal=25%
GSE8515_1L1_VS_IL6_STIM_JMAC	164	0.305052	1.00755	0.441948	0.702545	1	3796 tags=23%, list=24%, signal=29%	0.257223	0.86102	0.803504	0.898532	1	4380 tags=21%, list=27%, signal=29%
SMALL_CONJUGATING_PROTEIN_LIG	45	0.361518	1.00751	0.448584	0.702256	1	3403 tags=47%, list=21%, signal=59%	-0.386466	-1.2122	0.140187	0.411953	1	3010 tags=47%, list=19%, signal=57%
GSE17721_CTRL_VS_LPS_6H_BMDM	172	0.304732	1.00721	0.447561	0.702817	1	2187 tags=18%, list=14%, signal=21%	0.338479	1.14043	0.165829	0.511891	1	3153 tags=26%, list=20%, signal=31%
PROTEIN_MODIFICATION_BY_SMALL	37	0.37556	1.00714	0.453102	0.702626	1	2502 tags=32%, list=16%, signal=38%	0.305631	0.830616	0.756135	0.925051	1	2291 tags=22%, list=14%, signal=25%
ATPase_ACTIVITY_COUPLED	83	0.331143	1.00701	0.443458	0.702322	1	3593 tags=30%, list=22%, signal=39%	0.390221	1.20894	0.136111	0.418606	1	2829 tags=28%, list=18%, signal=33%
GSE17721_PAM3CSK4_VS_GADIQUIN	170	0.306087	1.00707	0.451028	0.701951	1	3481 tags=28%, list=22%, signal=36%	0.302852	1.02147	0.405473	0.707812	1	2909 tags=25%, list=18%, signal=31%
GSE11864_CSF1_IFNG_CSF1_PAM	173	0.302773	1.00686	0.43625	0.70222	1	3028 tags=27%, list=19%, signal=32%	0.324743	1.10155	0.233962	0.559261	1	3181 tags=36%, list=20%, signal=44%
GSE19825_NAIVE_VS_ILRAHIG_DA	174	0.320503	1.0067	0.443902	0.702355	1	3870 tags=33%, list=24%, signal=43%	0.349863	1.1819	0.107905	0.448745	1	3089 tags=28%, list=19%, signal=34%
GSE27786_LSK_VS_LIN_NEG_CELL_UI	177	0.302725	1.00633	0.440636	0.703139	1	2884 tags=25%, list=18%, signal=30%	0.285323	0.964885	0.546894	0.77331	1	3478 tags=29%, list=22%, signal=36%
SECRETION	163	0.303842	1.00612	0.436118	0.703422	1	3134 tags=24%, list=20%, signal=29%	0.354364	1.18114	0.131646	0.448886	1	2481 tags=21%, list=15%, signal=24%
PROTEIN_AMINO_ACID_N_LINKED_G	28	0.397974	1.00598	0.45768	0.703458	1	3941 tags=46%, list=25%, signal=61%	0.475638	1.21753	0.193012	0.408198	1	1535 tags=21%, list=10%, signal=24%
GSE3982_CTRL_VS_LPS_6H_NEUTROI	176	0.304792	1.00566	0.461071	0.70414	1	3535 tags=24%, list=22%, signal=31%	0.288705	0.965701	0.556511	0.774574	1	3282 tags=22%, list=20%, signal=27%
GSE14000_UNSTIM_VS_4H_LPS_DC	166	0.305258	1.00527	0.465923	0.705069	1	3289 tags=29%, list=20%, signal=36%	0.287134	0.953926	0.575188	0.782473	1	4291 tags=36%, list=27%, signal=49%
GSE17721_LPS_VS_PAM3CSK4_12H_I	180	0.302374	1.00476	0.455324	0.706426	1	3581 tags=31%, list=22%, signal=40%	0.310186	1.04308	0.365501	0.677694	1	2985 tags=26%, list=19%, signal=32%
GSE1448_ANTI_VALPHAV2_VS_VBETA5	184	0.298019	1.00454	0.436585	0.706767	1	3941 tags=29%, list=25%, signal=38%	0.343657	1.16076	0.141615	0.481693	1	3726 tags=32%, list=23%, signal=41%
POTASSIUM_ION_TRANSPORT	52	0.353519	1.00448	0.439822	0.706554	1	3119 tags=17%, list=19%, signal=21%	0.403913	1.23766	0.131075	0.37806	1	4125 tags=23%, list=26%, signal=31%
GSE3982_MEMORY_CD4_TCELL_VS_I	163	0.302633	1.00447	0.447596	0.706108	1	3568 tags=29%, list=22%, signal=37%	-0.370002	-1.42014	0	0.299413	1	2475 tags=31%, list=15%, signal=37%
GSE360_L_MAJOR_VS_B_MALAYI_LO	174	0.305719	1.00433	0.45697	0.706157	1	3164 tags=25%, list=20%, signal=30%	0.413181	1.38922	0.00807647	0.198967	1	2975 tags=32%, list=19%, signal=39%
CELL_CORTICAL_PART	20	0.419196	1.00401	0.459936	0.706513	1	2108 tags=25%, list=13%, signal=29%	-0.471085	-1.20492	0.226316	0.424204	1	2309 tags=25%, list=14%, signal=29%
GSE18791_CTRL_VS_NEWCASTLE_VIR	143	0.307329	1.00384	0.476312	0.706972	1	1964 tags=17%, list=12%, signal=19%	0.307047	1.0046	0.449367	0.737465	1	2955 tags=19%, list=18%, signal=23%
LEUKOCYTE_ACTIVATION	59	0.347216	1.00374	0.447297	0.706871	1	2522 tags=29%, list=16%, signal=34%	0.419153	1.22335	0.145714	0.398766	1	2704 tags=32%, list=17%, signal=39%
GSE37416_0H_VS_12H_F_TULARENSI	175	0.302984	1.00373	0.467233	0.706444	1	3358 tags=29%, list=21%, signal=36%	0.261418	0.873225	0.786765	0.890395	1	2561 tags=24%, list=16%, signal=28%
GSE26669_CTRL_VS_COSTIM_BLOCK	185	0.299032	1.00192	0.458484	0.70999	1	3684 tags=28%, list=23%, signal=35%	0.33865	1.15377	0.166463	0.488094	1	2715 tags=25%, list=17%, signal=30%
GSE12845_ANAIVE_VS_DARKZONE_GC	174	0.299631	1.00105	0.467722	0.711065	1	3877 tags=36%, list=24%, signal=47%	0.349044	1.17769	0.120406	0.452696	1	3080 tags=32%, list=19%, signal=39%
GSE37416_CTRL_VS_12H_F_TULAREN	169	0.302168	1.00302	0.450549	0.707392	1	2629 tags=26%, list=16%, signal=31%	0.285676	0.957082	0.562963	0.777993	1	2561 tags=22%, list=16%, signal=26%
PHOSPHOTRANSFERASE_ACTIVITY_PH	16	0.444369	1.00298	0.453448	0.707709	1	2759 tags=31%, list=17%, signal=38%	0.650151	1.49005	0.0416667	0.136681	1	1560 tags=25%, list=10%, signal=28%
GSE17721_LPS_VS_PAM3CSK4_1H_BI	182	0.299752	1.00235	0.453771	0.70943	1	2441 tags=21%, list=15%, signal=25%	0.333124	1.12354	0.220844	0.533424	1	3901 tags=35%, list=24%, signal=45%
GSE1469_INTRATHYMIC_T_PROGENIT	58	0.343527	1.00199	0.438472	0.710219	1	1807 tags=12%, list=11%, signal=14%	0.325607	0.955865	0.540698	0.779529	1	3757 tags=21%, list=23%, signal=27%
GSE26669_CTRL_VS_COSTIM_BLOCK	185	0.299032	1.00192	0.458484	0.70999	1	3684 tags=28%, list=23%, signal=35%	0.33865	1.15377	0.166463	0.488094	1	2715 tags=25%, list=17%, signal=30%
GSE12845_ANAIVE_VS_DARKZONE_GC	174	0.299631	1.00105	0.467722	0.711065	1	3877 tags=36%, list=24%, signal=47%	0.349044	1.17769	0.120406	0.452696	1	3080 tags=32%, list=19%, signal=39%
GSE3982_MAC_VS_TH2_DN	171	0.301948	1.00141	0.445963	0.710937	1	2875 tags=26%, list=18%, signal=31%	0.418042	1.41784	0.00498132	0.173372	1	3751 tags=40%, list=23%, signal=52%
GSE24643_TEFF_VS_TCONV_DAY7_IN	171	0.302396	1.00118	0.458838	0.711322	1	412						

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE17721_POLYIC_VS_PAM3CSK4_0_	176	0.298289	0.995993	0.478803	0.718525	1	2556 tags=19%, list=16%, signal=22%	-0.249163	-0.974272	0.572917	0.712412	1	3211 tags=32%, list=20%, signal=39%
GSE7460_CTRL_VS_FOXP3_OVEREXP	181	0.298621	0.995934	0.463473	0.718278	1	2791 tags=23%, list=17%, signal=28%	0.328345	1.11068	0.212608	0.549367	1	2999 tags=27%, list=19%, signal=32%
GSE3982_ESINOPHIL_VS_MAC_UP	163	0.302232	0.995676	0.471236	0.718726	1	3224 tags=30%, list=20%, signal=37%	0.288121	0.958663	0.609632	0.778293	1	3067 tags=24%, list=19%, signal=29%
GSE2706_UNSTIM_VS_BH_R848_DC	160	0.302056	0.995933	0.476961	0.719235	1	3337 tags=31%, list=21%, signal=39%	0.372765	1.25366	0.067602	0.354695	1	3017 tags=31%, list=19%, signal=37%
GSE17721_POLYIC_VS_CPG_12H_BMI	179	0.299544	0.994847	0.467722	0.720677	1	3528 tags=30%, list=22%, signal=38%	0.298669	1.0098	0.451295	0.727882	1	3480 tags=27%, list=22%, signal=35%
GSE2786_BCELL_VS_CD8_TCELL_DN	176	0.298526	0.994674	0.488485	0.720804	1	3296 tags=24%, list=21%, signal=30%	-0.293947	-1.1439	0.0857143	0.463543	1	2326 tags=25%, list=14%, signal=29%
GSE14769_UNSTIM_VS_80MIN_LPS_I	179	0.296915	0.99449	0.462002	0.720972	1	2665 tags=25%, list=17%, signal=30%	0.252037	0.856635	0.805452	0.903707	1	3268 tags=28%, list=20%, signal=35%
GSE2423_MEMORY_VS_NAIVE_CD8	178	0.300881	0.99438	0.487775	0.7209	1	1621 tags=15%, list=10%, signal=16%	0.275081	0.929952	0.653611	0.811755	1	2780 tags=20%, list=17%, signal=24%
MITOCHONDRION_ORGANIZATION_A	43	0.360826	0.994249	0.471842	0.720874	1	2268 tags=21%, list=14%, signal=24%	0.421119	1.18861	0.196697	0.440617	1	2079 tags=23%, list=13%, signal=27%
GSE6476_CTRL_VS_TSST_ACT_16H_J	170	0.301737	0.994114	0.507299	0.720851	1	3521 tags=34%, list=22%, signal=42%	-0.353226	-1.35002	0.00966184	0.332629	1	1992 tags=32%, list=12%, signal=37%
GSE29618_PRE_VS_DAY_FLU_VACC	174	0.294963	0.994084	0.465116	0.720496	1	3837 tags=33%, list=24%, signal=43%	0.342502	1.15778	0.172626	0.483969	1	3472 tags=32%, list=22%, signal=41%
GSE15930_NAIVE_VS_24H_IN_VITRO	176	0.302034	0.993437	0.483832	0.722341	1	3124 tags=22%, list=19%, signal=27%	-0.208647	-0.807122	0.989691	0.988724	1	2800 tags=20%, list=17%, signal=25%
GSE26669_CTRL_VS_COSTIM_BLOCK_	178	0.299574	0.993173	0.508685	0.722798	1	3539 tags=31%, list=22%, signal=39%	-0.255591	-0.980865	0.526882	0.698145	1	2749 tags=28%, list=17%, signal=34%
CALCIUM_ION_TRANSPORT	21	0.423785	0.993065	0.464448	0.722713	1	1743 tags=24%, list=11%, signal=27%	0.328281	0.788826	0.784539	0.965343	1	2632 tags=24%, list=16%, signal=28%
GSE17721_CTRL_VS_CPG_4H_BMDM	182	0.296893	0.992726	0.469438	0.723421	1	2693 tags=20%, list=17%, signal=24%	0.257886	0.869721	0.794588	0.892146	1	3498 tags=25%, list=22%, signal=31%
GSE22886_NAIVE_BCELL_VS_BM_PLA	171	0.298662	0.992299	0.497525	0.724505	1	4053 tags=40%, list=25%, signal=53%	0.422277	1.41779	0.00618812	0.172548	1	2972 tags=32%, list=19%, signal=39%
GSE3982_ESINOPHIL_VS_MAC_DN	187	0.298352	0.992102	0.493719	0.724743	1	3280 tags=29%, list=20%, signal=37%	0.306211	1.02816	0.397954	0.700443	1	2731 tags=27%, list=18%, signal=32%
GSE17721_LPS_VS_POLYIC_4H_BMDM	178	0.298457	0.99165	0.473555	0.725844	1	3705 tags=33%, list=23%, signal=43%	0.239042	0.809195	0.905172	0.948089	1	3292 tags=28%, list=21%, signal=34%
ACID_AMINO_ACID_LIGASE_ACTIVITY	51	0.35402	0.991586	0.464789	0.725621	1	3403 tags=45%, list=21%, signal=57%	-0.396393	-1.26617	0.0966667	0.369378	1	2786 tags=43%, list=17%, signal=52%
GSE10325_CD4_TCELL_VS_BCELL_DN	152	0.298134	0.991533	0.498789	0.725354	1	2754 tags=26%, list=17%, signal=31%	0.351937	1.16107	0.162404	0.481189	1	2546 tags=30%, list=16%, signal=36%
GSE1432_CTRL_VS_IFNG_6H_MICROK	173	0.29647	0.991429	0.475091	0.725266	1	3156 tags=27%, list=20%, signal=33%	-0.253839	-0.985996	0.464789	0.684798	1	3450 tags=33%, list=21%, signal=42%
SULFUR_COMPOUND BIOSYNTHETIC	16	0.448104	0.991125	0.481032	0.725408	1	2858 tags=25%, list=18%, signal=30%	0.407032	0.945884	0.538462	0.792269	1	1850 tags=31%, list=12%, signal=35%
CELLULAR_LIPID_METABOLIC_PROCESS	231	0.292225	0.99121	0.497647	0.725097	1	2348 tags=18%, list=15%, signal=20%	0.367251	1.26658	0.0344418	0.333043	1	2682 tags=24%, list=17%, signal=28%
GSE16522_MEMORY_VS_NAIVE_ANT	174	0.300244	0.99118	0.483832	0.724761	1	1531 tags=16%, list=10%, signal=18%	-0.246482	-0.944645	0.641509	0.768256	1	3453 tags=33%, list=22%, signal=42%
GSE360_L_MAJOR_VS_T_GONDII_DC	173	0.296105	0.991093	0.488286	0.724603	1	1690 tags=14%, list=11%, signal=15%	0.353667	1.17603	0.124378	0.452936	1	2862 tags=24%, list=18%, signal=29%
UDP_GLYCOSYLTRANSFERASE_ACTIVITY	42	0.35966	0.99059	0.479134	0.725858	1	537 tags=12%, list=3%, signal=12%	0.334559	0.937569	0.58589	0.802035	1	275 tags=7%, list=2%, signal=7%
GSE15324_ELF4_KO_VS_WT_NAIVE_C	169	0.298391	0.990549	0.506832	0.725554	1	1965 tags=14%, list=12%, signal=15%	0.349413	1.18402	0.124384	0.445623	1	3346 tags=24%, list=21%, signal=30%
GSE17721_LPS_VS_GARDIQUIMOD_O	173	0.300045	0.990435	0.490752	0.725491	1	3488 tags=30%, list=22%, signal=38%	-0.328299	-1.2639	0.015	0.369629	1	2835 tags=31%, list=18%, signal=37%
GSE16522_MEMORY_VS_NAIVE_CD8	172	0.300353	0.990375	0.504926	0.725261	1	2847 tags=26%, list=18%, signal=31%	0.264071	0.886739	0.742927	0.873182	1	2923 tags=26%, list=18%, signal=32%
GSE39820_TGFbeta1_VS_TGFbeta3_2	171	0.29993	0.989144	0.490244	0.720965	1	2662 tags=18%, list=17%, signal=21%	0.283326	0.946112	0.603214	0.794006	1	3002 tags=22%, list=19%, signal=27%
REGULATION_OF_IMMUNE_SYSTEM	59	0.342376	0.988726	0.495049	0.730055	1	2522 tags=27%, list=16%, signal=32%	0.413074	1.21928	0.134978	0.403456	1	2704 tags=31%, list=17%, signal=37%
GSE12845_NAIVE_VS_PRE_GC_TONSI	172	0.294221	0.988683	0.5	0.729739	1	3354 tags=32%, list=21%, signal=40%	0.302319	1.01114	0.430946	0.726748	1	3257 tags=27%, list=20%, signal=33%
GSE360_DC_VS_MAC_T_GONDII_UP	164	0.3008	0.988144	0.483791	0.731207	1	3127 tags=24%, list=19%, signal=30%	0.334842	1.11923	0.216853	0.537327	1	3911 tags=30%, list=24%, signal=39%
GSE17721_POLYIC_VS_GARDIQUIMO	180	0.298602	0.988087	0.498807	0.730968	1	2875 tags=27%, list=18%, signal=33%	-0.212918	-0.821849	0.994318	0.979276	1	3624 tags=32%, list=23%, signal=40%
GSE32423_CTRL_VS_IL7_IL4_MEMORY	179	0.296499	0.986991	0.507937	0.73416	1	1828 tags=16%, list=11%, signal=17%	0.418831	1.419	0.00742574	0.172095	1	3654 tags=34%, list=23%, signal=44%
DNA_POLYMERASE_ACTIVITY	16	0.440904	0.986462	0.484536	0.735499	1	3149 tags=38%, list=20%, signal=47%	0.565124	1.27823	0.144054	0.313578	1	2562 tags=50%, list=16%, signal=59%
POSITIVE_REGULATION_OF_IMMUNE	26	0.394383	0.986252	0.463108	0.735766	1	2184 tags=31%, list=14%, signal=36%	0.397788	1.00157	0.464401	0.741431	1	2216 tags=27%, list=14%, signal=31%
GSE14350_TREG_VS_TEFF_CDN	172	0.298531	0.986019	0.483146	0.736089	1	3646 tags=23%, list=23%, signal=30%	0.377099	1.27869	0.0404908	0.314494	1	1540 tags=13%, list=10%, signal=15%
GSE3982_CTR_VS_LPS_48H_DC_DN	185	0.29145	0.98588	0.508557	0.736134	1	2708 tags=24%, list=17%, signal=28%	0.374832	1.26935	0.0358911	0.329952	1	2903 tags=31%, list=18%, signal=38%
GSE17721_0.5H_VS_24H_GARDIQUIN	178	0.294874	0.984844	0.50828	0.739273	1	3485 tags=28%, list=22%, signal=35%	0.353346	1.19423	0.0975	0.433975	1	2613 tags=28%, list=16%, signal=33%
GSE17721_0.5H_VS_8H_GARDIQUIM	175	0.292943	0.984733	0.507407	0.739214	1	3067 tags=25%, list=19%, signal=31%	0.300582	1.01331	0.42875	0.725387	1	2769 tags=25%, list=17%, signal=30%
GSE29618_LAIV_VS_TV_FLU_VACCIN	162	0.298764	0.984688	0.526699	0.738956	1	1810 tags=14%, list=11%, signal=16%	0.438099	1.46507	0.00629723	0.147107	1	3471 tags=32%, list=22%, signal=41%
GSE360_HIGH_VS_LOW_DOSE_B_MA	175	0.296284	0.983781	0.498786	0.741597	1	4112 tags=26%, list=26%, signal=34%	0.301686	1.02333	0.398034	0.704093	1	2514 tags=18%, list=16%, signal=21%
GSE9650_EXHAUSTED_VS_MEMORY	182	0.293829	0.983556	0.506053	0.741889	1	2686 tags=22%, list=17%, signal=26%	0.304429	1.02438	0.41	0.703531	1	2516 tags=25%, list=16%, signal=30%
STEROID_BIOSYNTHETIC_PROCESS	22	0.402751	0.983465	0.479806	0.741733	1	2906 tags=23%, list=18%, signal=28%	0.369518	0.964322	0.513138	0.773655	1	1151 tags=14%, list=7%, signal=15%
GSE360_DC_VS_MAC_L_MAJOR_UP	175	0.29325	0.983359	0.498212	0.741648	1	2325 tags=17%, list=14%, signal=20%	-0.247129	-0.946741	0.617143	0.766156	1	1644 tags=15%, list=10%, signal=16%
GSE11924_TH1_VS_TH17_CD4_TCELL	182	0.293454	0.983157	0.505455	0.741865	1	2974 tags=25%, list=19%, signal=30%	0.26836	0.909858	0.700489	0.838948	1	3853 tags=31%, list=24%, signal=40%
GSE9037_CTRL_VS_LPS_4H_STIM_BW	176	0.29629	0.982833	0.518029	0.742574	1	2691 tags=23%, list=17%, signal=28%	-0.325251	-1.25939	0.020105	0.367523	1	3263 tags=25%, list=20%, signal=31%
GSE32423ILT_VS_ITL4_MEMORY	172	0.293479	0.982022	0.514852	0.744485	1	2994 tags=24%, list=19%, signal=30%	0.380867	1.28276	0.047088	0.30812	1	3938 tags=32%, list=25%, signal=41%
POSITIVE_REGULATION_OF_BINDING	26	0.392239	0.981926	0.487204	0.744712	1	2502 tags=27%, list=16%, signal=32%	0.30631	0.76813	0.838915	0.973783	1	3737 tags=34%, list=23%, signal=44%
TRANSMEMBRANE_RECEPTOR_PROTI	74	0.327437	0.981923	0.490489	0.744277	1	2951 tags=22%, list=18%, signal=26%	0.283819	0.862011	0.7625	0.898429	1	4180 tags=31%, list=26%, signal=42%
HUMORAL_IMMUNE_RESPONSE	27	0.379874	0.981815	0.48773	0.744204	1	3772 tags=21%, list=19%, signal=33%	0.384636	1.076183	0.492754	0.763884	1	3587 tags=44%, list=22%, signal=57%
GSE27786_LN_NEG_VS_NEUTROPHIL	169	0.296208	0.981811	0.515777	0.743776	1	3385 tags=28%, list=21%, signal=36%	-0.322731	-1.23606	0.0481928	0.387696	1	3910 tags=37%, list=24%, signal=48%
BIOSYNTHETIC_PROCESS	435	0.277259	0.981404	0.535752	0.744787	1	3479 tags=25%, list=22%, signal=31%	0.258353	0.939166	0.675214	0.799881	1	3263 tags=25%, list=20%, signal=31%
GSE15930_NAIVE_VS_Z2H_IN_VITRO	177	0.295485	0.980726	0.5	0.746621	1	3589 tags=28%, list=22%, signal=36%	0.305884	1.02911	0.413233	0.700207	1	3938 tags=32%, list=25%, signal=41%
NUCLEAR_IMPORT	44	0.359128	0.980481	0.506849	0.747013	1	3069 tags=30%, list=19%, signal=36%	0.261177	0.72589	0.930409	0.990916	1	3737 tags=34%, list=23%, signal=44%
ATPase_Activity	101	0.315242	0.980188	0.501292	0.747144	1	924 tags=13%, list=6%, signal=13%	-0.476375	-1.3038	0.131653	0.350642	1	379 tags=21%, list=2%, signal=21%
GSE17721_POLYIC_VS_CPG_8H_B													

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

ADAPTIVE_IMMUNE_RESPONSE	24	0.395333	0.972388	0.480799	0.763092	1	1884 tags=29%, list=12%, signal=33%	0.44358	1.11555	0.297771	0.542242	1	2704 tags=38%, list=17%, signal=45%
GSE132423_MEMORY_VS_NAIVE_CD8	171	0.288286	0.972283	0.537983	0.762993	1	3189 tags=19%, list=20%, signal=24%	-0.307356	-1.18294	0.0772947	0.444708	1	1696 tags=13%, list=11%, signal=15%
GSE18791_CTRL_VS_NEWCASTLE_VIR	163	0.294061	0.971778	0.503034	0.764285	1	3458 tags=32%, list=22%, signal=40%	0.290418	0.978567	0.525381	0.763256	1	3570 tags=33%, list=22%, signal=42%
GSE10325_LUPUS_BCELL_VS_LUPUS_	162	0.2919	0.971497	0.527295	0.764748	1	2956 tags=30%, list=18%, signal=36%	0.264684	0.897941	0.703242	0.856889	1	2404 tags=22%, list=15%, signal=25%
ANTIGEN_BINDING	20	0.405413	0.970917	0.501603	0.766193	1	2972 tags=35%, list=19%, signal=43%	-0.273048	-0.697411	0.927649	0.991422	1	1206 tags=15%, list=8%, signal=16%
GSE1432_1H_VS_24H_IFNG_MICROG	164	0.295836	0.970912	0.516687	0.765755	1	2831 tags=24%, list=18%, signal=29%	0.272211	0.909431	0.690864	0.839223	1	3592 tags=31%, list=22%, signal=40%
NITROGEN_COMPOUND_METABOLIC	137	0.298154	0.970896	0.536921	0.765357	1	3676 tags=29%, list=23%, signal=38%	0.341569	1.13065	0.202365	0.522184	1	3897 tags=31%, list=24%, signal=40%
GSE1083_SP2_VS_PA4_THYMOCYTE	173	0.29167	0.970256	0.538929	0.767042	1	3065 tags=27%, list=19%, signal=33%	-0.265371	-1.02814	0.368687	0.61212	1	3314 tags=35%, list=21%, signal=43%
TRANSCRIPTION_COFACTOR_ACTIVIT	208	0.2883	0.970047	0.558719	0.76727	1	2248 tags=16%, list=14%, signal=19%	-0.260276	-1.01327	0.432749	0.623785	1	2663 tags=25%, list=17%, signal=29%
GSE17721_PAM3CSK4_VS_CPG_6H_B	181	0.290999	0.969754	0.553679	0.76781	1	2686 tags=23%, list=17%, signal=28%	0.319506	1.0794	0.284841	0.60229	1	1846 tags=19%, list=12%, signal=21%
GSE14769_40MIN_VS_360MIN_LPS_E	177	0.292701	0.969676	0.542413	0.767605	1	4479 tags=39%, list=28%, signal=53%	0.252595	0.854414	0.817178	0.905736	1	2762 tags=23%, list=17%, signal=28%
GSE7852_TREG_VS_TCINV_DN	171	0.291358	0.969645	0.53697	0.767262	1	3519 tags=30%, list=22%, signal=38%	-0.303985	-1.16204	0.101449	0.463354	1	2674 tags=32%, list=17%, signal=37%
GSE9650_EFFECTOR_VS_EXHAUSTED	179	0.292174	0.969619	0.534969	0.766895	1	3710 tags=28%, list=23%, signal=36%	-0.265279	-1.01201	0.414894	0.626479	1	2289 tags=20%, list=14%, signal=23%
GSE339_CD4POS_CD4CD8DN_DC	178	0.291487	0.969551	0.540943	0.76666	1	4252 tags=34%, list=26%, signal=45%	0.255178	0.863237	0.816525	0.898698	1	4026 tags=28%, list=25%, signal=36%
GSE2708_UNSTIM_VS_8H_LPS_DC_D	167	0.293616	0.969274	0.537906	0.767127	1	3509 tags=30%, list=22%, signal=38%	0.240238	0.809358	0.934811	0.948293	1	2416 tags=17%, list=15%, signal=20%
GSE22886_NAIVE_CD4_TCELL_VS_12I	174	0.289505	0.968781	0.528186	0.768337	1	3172 tags=25%, list=20%, signal=30%	-0.347216	-1.3352	0.00462963	0.342475	1	2027 tags=26%, list=13%, signal=30%
GSE12366_PLASMA_CELL_VS_MEMO	155	0.294349	0.968746	0.538365	0.767991	1	3633 tags=34%, list=23%, signal=43%	0.321964	1.06687	0.313433	0.630306	1	2941 tags=25%, list=18%, signal=30%
GSE12845_IGD_NEG_BLOOD_VS_PRE	179	0.29213	0.968732	0.542169	0.767596	1	3433 tags=28%, list=21%, signal=36%	0.441814	1.48404	0.00125	0.139533	1	2788 tags=31%, list=17%, signal=37%
GSE17721_CTRL_VS_PAM3CSK4_8H_I	178	0.291416	0.968545	0.550339	0.767755	1	3277 tags=28%, list=20%, signal=35%	0.323552	1.1194	0.208333	0.53725	1	3110 tags=33%, list=19%, signal=40%
GSE1460_CORD_VS_ADULT_BLOOD_I	181	0.290218	0.968311	0.573964	0.768104	1	1981 tags=17%, list=12%, signal=19%	-0.229794	-0.887756	0.866667	0.891583	1	3919 tags=39%, list=24%, signal=51%
LIGASE_ACTIVITY	86	0.317503	0.968177	0.542153	0.768139	1	3680 tags=43%, list=23%, signal=56%	-0.265899	-0.929574	0.627063	0.801491	1	3010 tags=34%, list=19%, signal=41%
GSE22886_IGM_MEMORY_BCELL_VS	181	0.288153	0.967827	0.544941	0.768836	1	3150 tags=28%, list=20%, signal=34%	0.431242	1.4634	0.00124844	0.14637	1	3645 tags=37%, list=23%, signal=47%
REPRODUCTIVE_PROCESS	129	0.301637	0.967766	0.532911	0.768595	1	2893 tags=16%, list=18%, signal=19%	0.297755	0.972715	0.538058	0.771319	1	2312 tags=14%, list=14%, signal=16%
GSE13485_DAY1_VS_DAY7_YF17D_VI	176	0.290914	0.967536	0.531863	0.768906	1	3059 tags=26%, list=19%, signal=31%	-0.264328	-1.01102	0.431579	0.628037	1	3068 tags=32%, list=19%, signal=40%
REGULATION_OF_MITOTIC_CELL_CYC	20	0.405448	0.967331	0.516535	0.769141	1	2883 tags=30%, list=18%, signal=37%	0.370353	1.75723	0.0015949	0.0231478	0.371	872 tags=30%, list=5%, signal=32%
GSE17721_LPS_P_MYLIC_P0.5H_BMI	176	0.292113	0.967213	0.543632	0.769079	1	2588 tags=19%, list=16%, signal=22%	0.232677	0.763816	0.976427	0.975877	1	2235 tags=14%, list=14%, signal=16%
GSE17721_LPS_POLYIC_B2H_BMD	185	0.288063	0.966648	0.536765	0.770491	1	1891 tags=16%, list=12%, signal=18%	-0.310761	-1.19979	0.0628272	0.430249	1	2468 tags=24%, list=15%, signal=28%
GSE12845_IGD_POS_BLOOD_VS_NAI	167	0.2898	0.966515	0.555422	0.770474	1	1749 tags=16%, list=11%, signal=17%	0.408813	1.3663	0.016109	0.221365	1	2769 tags=31%, list=17%, signal=37%
GSE13485_CTRL_VS_DAY21_YF17D_V	160	0.290607	0.965912	0.538462	0.771982	1	2960 tags=28%, list=18%, signal=34%	-0.254314	-0.954791	0.631841	0.75988	1	2561 tags=29%, list=16%, signal=34%
GSE27786_LIN_NEG_VS_NKCELL_UP	173	0.289213	0.965493	0.549751	0.772922	1	3970 tags=31%, list=25%, signal=40%	0.374103	1.24836	0.0479193	0.3611	1	3769 tags=33%, list=23%, signal=43%
GSE360_CTRL_VS_B_MALAYI_HIGH_L	175	0.292386	0.965323	0.544696	0.773045	1	2907 tags=21%, list=18%, signal=26%	0.361452	1.22205	0.0762389	0.401154	1	1977 tags=20%, list=12%, signal=23%
GAECH_DAY8_EFF_VS_DAY15_EFF_CC	177	0.289573	0.964893	0.535211	0.773398	1	2062 tags=20%, list=13%, signal=22%	-0.281967	-1.09328	0.201087	0.531965	1	2584 tags=29%, list=16%, signal=34%
GSE15750_WT_VS_TRAF6KO_DAY10_	170	0.290313	0.964838	0.546934	0.773713	1	2655 tags=25%, list=17%, signal=29%	0.278699	0.933257	0.629405	0.806887	1	3854 tags=31%, list=24%, signal=40%
AMINE_BINDING	21	0.398435	0.964586	0.532407	0.774091	1	736 tags=10%, list=5%, signal=10%	-0.417887	-1.05976	0.334211	0.527883	1	3209 tags=29%, list=20%, signal=36%
GSE7400_CTRL_VS_CSF3_IN_VIVO_TR	178	0.28887	0.964476	0.563702	0.774018	1	3461 tags=26%, list=22%, signal=33%	-0.302951	-1.17409	0.0735294	0.453329	1	2257 tags=29%, list=14%, signal=33%
GSE20366_TREG_VS_NAIVE_CD4_TCE	181	0.288436	0.964112	0.553114	0.774772	1	3065 tags=28%, list=19%, signal=34%	-0.342629	-1.32093	0.00990099	0.341278	1	2674 tags=33%, list=17%, signal=39%
GSE17974_1H_VS_72H_UNTREATED	161	0.289534	0.963951	0.560917	0.774833	1	2870 tags=28%, list=18%, signal=34%	-0.276574	-1.07079	0.220588	0.553681	1	2444 tags=27%, list=15%, signal=32%
GSE10325_BCELL_VS_LUPUS_BCELL_I	181	0.290143	0.963831	0.555018	0.774766	1	3135 tags=26%, list=20%, signal=32%	0.298398	1.00682	0.445679	0.732683	1	3057 tags=29%, list=19%, signal=36%
GSE3982_DC_VS_NEUTROPHIL_LPS_S	168	0.291282	0.963496	0.533666	0.775434	1	3734 tags=28%, list=23%, signal=36%	0.332081	1.11005	0.23399	0.548854	1	3112 tags=23%, list=19%, signal=28%
GSE3982_MAC_VS_NEUTROPHIL_UP	172	0.28974	0.963114	0.566646	0.776216	1	4516 tags=42%, list=28%, signal=58%	0.291498	0.974245	0.52381	0.76964	1	3159 tags=30%, list=20%, signal=37%
GSE17974_0.5H_72H_I4_ANL_I12_ANL_A	168	0.290991	0.962966	0.560292	0.776251	1	3738 tags=29%, list=23%, signal=38%	0.421955	1.41393	0.00625	0.176033	1	4026 tags=43%, list=25%, signal=57%
GSE18791_CTRL_VS_NEWCASTLE_VIR	168	0.290297	0.962764	0.537037	0.776454	1	3160 tags=32%, list=20%, signal=40%	0.248928	0.840486	0.839444	0.914918	1	2083 tags=19%, list=13%, signal=22%
GSE360_L_DONOVANI_VS_L_MAJOR	178	0.292228	0.96272	0.575685	0.776146	1	2532 tags=19%, list=16%, signal=22%	0.267138	0.905679	0.707674	0.846263	1	1829 tags=15%, list=11%, signal=16%
GSE3982_ESOPINOPHIL_VS_TH2_UP	157	0.29136	0.96242	0.556235	0.776694	1	3305 tags=21%, list=21%, signal=37%	-0.267818	-1.03686	0.331818	0.599188	1	2037 tags=20%, list=13%, signal=23%
GSE3982_ESOPINOPHIL_VS_DC_DN	174	0.287642	0.962404	0.56711	0.776298	1	2479 tags=22%, list=15%, signal=26%	0.327615	1.10496	0.236111	0.555351	1	3187 tags=33%, list=20%, signal=40%
PROTEIN_DNA_COMPLEX_ASSEMBLY	45	0.346615	0.962387	0.510574	0.775907	1	2880 tags=27%, list=18%, signal=32%	0.35389	0.98061	0.490741	0.761246	1	4078 tags=33%, list=25%, signal=45%
GSE1432_CTRL_VS_IFNG_1H_MICROG	166	0.293716	0.962385	0.581132	0.775546	1	3522 tags=23%, list=22%, signal=30%	0.301572	1.00685	0.440699	0.733146	1	3701 tags=28%, list=23%, signal=36%
PROTEIN_UBQUITINATION	34	0.363799	0.962289	0.510638	0.775315	1	2502 tags=32%, list=16%, signal=38%	0.318269	0.84606	0.70092	0.912614	1	2291 tags=24%, list=14%, signal=27%
AMINE_TRANSPORT	36	0.361854	0.961953	0.517774	0.775989	1	2996 tags=22%, list=19%, signal=27%	0.338463	0.915441	0.618827	0.832585	1	5037 tags=44%, list=31%, signal=65%
GSE3982_CTRL_VS_TGFbeta3_IL6_C	186	0.286844	0.961944	0.578947	0.77555	1	2643 tags=23%, list=16%, signal=27%	0.31714	1.0777	0.274486	0.605459	1	2408 tags=24%, list=15%, signal=28%
GSE18791_UNSTIM_VS_NEWCATSL_E	169	0.290594	0.961634	0.569343	0.776117	1	3484 tags=35%, list=22%, signal=44%	0.268786	0.903453	0.688144	0.849293	1	2687 tags=24%, list=17%, signal=29%
GSE26669_CD4_VS_CD8_TCELL_IN_N	161	0.290195	0.961282	0.568675	0.776786	1	3752 tags=30%, list=23%, signal=38%	0.279693	0.937117	0.609181	0.802007	1	1929 tags=17%, list=12%, signal=19%
GSE13493_CD8_CD4NTCD8POS_TS	167	0.291954	0.961018	0.540216	0.777185	1	2891 tags=24%, list=18%, signal=29%	0.279985	0.935423	0.642948	0.804921	1	3011 tags=26%, list=19%, signal=31%
GSE27786_CD8_CD8_TCELL_VS_NKTCELL_I	174	0.290409	0.960343	0.571252	0.777893	1	2966 tags=23%, list=18%, signal=28%	0.264288	0.889048	0.742178	0.871627	1	3103 tags=28%, list=19%, signal=34%
GSE17721_POLYIC_VS_CPG_6H_BMD	180	0.287764	0.960296	0.564848	0.778625	1	3607 tags=31%, list=22%, signal=39%	-0.330424	-1.25778	0.0480769	0.366378	1	2247 tags=27%, list=14%, signal=31%
GSE36476_YOUNG_VS_OLD_DONOR	160	0.288971	0.960075	0.577114	0.778861	1	3512 tags=25%, list=22%, signal=32%	-0.267124	-1.01378	0.373786	0.625594	1	2811 tags=23%, list=18%, signal=28%
PROTEIN_AMINO_ACID_PHOSPHORYI	256	0.28053	0.959839	0.593714	0.779165	1	3458 tags=27%, list=22%, signal=34%	-0.312804	-1.23884	0.00704225	0.382705	1</td	

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE17974_CTRL_VS_ACT_IL4_AND_A	183	0.287869	0.953536	0.586207	0.78901	1	3086 tags=27%, list=19%, signal=33%	0.403481	1.35776	0.0156438	0.232572	1	3589 tags=39%, list=22%, signal=50%
GSE14769_UNSTIM_VS_120MIN_LPS	179	0.287006	0.953481	0.589109	0.78872	1	2970 tags=26%, list=19%, signal=31%	-0.260448	-1.0147	0.39759	0.625604	1	2608 tags=28%, list=16%, signal=34%
PIGMENT_BIOSYNTHETIC_PROCESS	17	0.419702	0.952029	0.519169	0.789205	1	1018 tags=18%, list=6%, signal=19%	-0.352776	-0.867382	0.662234	0.918258	1	2916 tags=41%, list=18%, signal=50%
CASPASE_ACTIVATION	23	0.390472	0.952978	0.514331	0.789506	1	3289 tags=39%, list=20%, signal=49%	-0.338308	-0.906134	0.62533	0.854325	1	2226 tags=22%, list=14%, signal=25%
TRANSFERASE_ACTIVITY_TRANSFERI	385	0.270257	0.952798	0.629464	0.789647	1	3421 tags=27%, list=21%, signal=34%	0.243816	0.873951	0.847514	0.889974	1	3727 tags=30%, list=23%, signal=39%
GSE17721_05H_VS_12H_PAM3CSK4	175	0.288297	0.952145	0.574209	0.791334	1	2820 tags=26%, list=18%, signal=31%	-0.292165	-1.13113	0.120603	0.476949	1	2892 tags=31%, list=18%, signal=37%
GSE7852_THYMUS_VS_FAT_TCONV_I	177	0.287349	0.951735	0.585956	0.792235	1	3925 tags=33%, list=24%, signal=44%	0.363406	1.2338	0.0756824	0.380163	1	2880 tags=31%, list=18%, signal=37%
GSE1721_PAM3CSK4_VS_PHB_8H	179	0.283031	0.951653	0.58231	0.792047	1	3161 tags=23%, list=20%, signal=29%	0.329459	1.12799	0.180268	0.530536	1	2330 tags=23%, list=15%, signal=27%
GSE22886_IM_Memory_Bcell_Vs	166	0.287066	0.951283	0.567961	0.792809	1	1694 tags=14%, list=11%, signal=15%	-0.375402	-1.41665	0	0.289829	1	2550 tags=32%, list=16%, signal=38%
GSE18791_CTRL_VS_NEWCASTLE_VIR	172	0.288105	0.950936	0.581928	0.793482	1	1472 tags=17%, list=9%, signal=18%	0.318892	1.07208	0.302326	0.620262	1	3628 tags=39%, list=23%, signal=50%
GSE18791_CTRL_VS_NEWCASTLE_VIR	164	0.28817	0.950838	0.584767	0.793352	1	3351 tags=28%, list=21%, signal=35%	0.244421	0.821494	0.895334	0.935541	1	3490 tags=24%, list=22%, signal=30%
GSE360_D_MAC_L_MAJOR_DR	170	0.284971	0.950327	0.593497	0.794571	1	2820 tags=22%, list=18%, signal=26%	0.345459	1.15074	0.158282	0.491242	1	3433 tags=28%, list=21%, signal=35%
GSE17721_PAM3CSK4_VS_GADIQUIN	179	0.284164	0.95013	0.579531	0.794764	1	2412 tags=21%, list=15%, signal=24%	0.316974	1.07426	0.285714	0.614604	1	3094 tags=29%, list=19%, signal=36%
G_protein_signaling_coupled_Tk	94	0.306445	0.950073	0.555703	0.7945	1	2889 tags=14%, list=18%, signal=17%	0.28103	0.883452	0.728767	0.875904	1	4245 tags=21%, list=26%, signal=29%
Small_gtpase_regulator_Activity	58	0.324016	0.950052	0.537901	0.794122	1	3383 tags=29%, list=21%, signal=37%	-0.292651	-0.963852	0.493197	0.736781	1	3196 tags=36%, list=20%, signal=45%
GSE17974_CTRL_VS_ACT_IL4_AND_A	181	0.284449	0.950017	0.616125	0.793792	1	3360 tags=30%, list=21%, signal=37%	0.352224	1.19623	0.0997506	0.432938	1	2484 tags=27%, list=15%, signal=31%
GSE14308_H17_VS_NAIVE_CD4_TCE	167	0.289466	0.950014	0.596852	0.793354	1	2395 tags=25%, list=15%, signal=23%	0.258675	0.866974	0.785714	0.894493	1	2867 tags=23%, list=18%, signal=27%
GSE17974_CTRL_VS_ACT_IL4_AND_A	180	0.286685	0.949469	0.597356	0.794652	1	3259 tags=28%, list=20%, signal=34%	0.444119	1.50152	0	0.127921	1	2420 tags=33%, list=15%, signal=38%
GSE28237_EARLY_VS_LATE_G_BCEL	178	0.284441	0.949356	0.588315	0.794556	1	2706 tags=23%, list=17%, signal=27%	0.350266	1.18153	0.112195	0.449445	1	2181 tags=20%, list=14%, signal=23%
GSE12845_GD_POS_VS_NEG_BLOOD	168	0.287706	0.949086	0.597291	0.794978	1	3666 tags=32%, list=23%, signal=41%	0.332505	1.11402	0.226296	0.545099	1	2931 tags=28%, list=18%, signal=34%
Regulation_of_RNA_metabolic_F	419	0.267825	0.948556	0.649563	0.796241	1	2667 tags=19%, list=17%, signal=23%	0.234541	0.845162	0.929438	0.912782	1	1969 tags=13%, list=12%, signal=15%
GSE15324_NAIVE_VS_ACTIVATED_ELI	166	0.285428	0.948318	0.605948	0.796553	1	4020 tags=30%, list=25%, signal=40%	0.23131	0.779634	0.949878	0.968557	1	4093 tags=32%, list=25%, signal=42%
Receptor_signaling_protein_ER	31	0.364815	0.948039	0.51811	0.797029	1	1733 tags=23%, list=11%, signal=25%	-0.383894	-1.09229	0.242775	0.532249	1	1664 tags=29%, list=10%, signal=32%
Sequence_specific_DNA_binding	49	0.334528	0.947873	0.567989	0.797138	1	3716 tags=27%, list=23%, signal=34%	-0.449579	-1.42335	0.030303	0.298636	1	3710 tags=39%, list=23%, signal=50%
GSE26928_EMFF_MEMORY_VS_CXCR5	160	0.284772	0.947667	0.580566	0.79736	1	2984 tags=25%, list=19%, signal=30%	-0.349458	-1.31789	0.0196078	0.340971	1	2515 tags=29%, list=16%, signal=34%
GSE17721_05H_VS_8H_LPS_BMDM	173	0.283716	0.947415	0.599256	0.797729	1	3419 tags=28%, list=21%, signal=36%	0.317806	1.06444	0.315657	0.635075	1	1871 tags=20%, list=12%, signal=22%
N_acetyltransferase_activity	19	0.406266	0.947384	0.545902	0.797375	1	3654 tags=42%, list=23%, signal=54%	0.268251	0.6441	0.940476	0.997526	1	2629 tags=21%, list=16%, signal=25%
GSE337_CTRL_VS_4H_IFNG_CD8	175	0.282852	0.946892	0.609816	0.798479	1	3945 tags=34%, list=25%, signal=44%	0.301057	1.00993	0.447103	0.727925	1	2623 tags=23%, list=16%, signal=27%
Transition_metal_ion_binding	93	0.306498	0.946565	0.573003	0.799051	1	2428 tags=17%, list=15%, signal=20%	0.252231	0.786153	0.894022	0.966649	1	2047 tags=15%, list=13%, signal=17%
RNA_catabolic_process	22	0.393257	0.946242	0.556604	0.799618	1	2997 tags=32%, list=19%, signal=39%	0.364017	0.887107	0.642623	0.872645	1	2163 tags=32%, list=13%, signal=37%
GSE11864_UNTREATED_VS_CSF1_PA1	162	0.288805	0.945762	0.591304	0.800692	1	3868 tags=38%, list=24%, signal=49%	0.318984	1.06118	0.340399	0.642401	1	3060 tags=32%, list=19%, signal=39%
DNA_damage_Checkpoint	18	0.404792	0.945759	0.533981	0.800253	1	3979 tags=50%, list=25%, signal=66%	-0.293537	-0.742579	0.856757	0.996638	1	4001 tags=44%, list=25%, signal=59%
Membrane_lipid_metabolic_Proc	91	0.31046	0.945567	0.564276	0.800425	1	1517 tags=15%, list=9%, signal=17%	0.406822	1.26829	0.0825309	0.330119	1	2959 tags=30%, list=18%, signal=36%
Nucleobase_nucleoside_and_Nuc	58	0.33808	0.945486	0.557276	0.800258	1	3584 tags=39%, list=22%, signal=50%	-0.24637	-0.780363	0.924528	0.994418	1	3084 tags=27%, list=19%, signal=33%
Sodium_ion_transport	19	0.401332	0.945254	0.53268	0.800552	1	3068 tags=26%, list=19%, signal=32%	0.397808	0.9516	0.535433	0.785644	1	1737 tags=11%, list=11%, signal=12%
GSE360_CTRL_VS_B_MALAYI_LOW_D	170	0.287107	0.94518	0.600249	0.80034	1	3693 tags=21%, list=23%, signal=40%	0.30133	1.012	0.418342	0.726957	1	2600 tags=21%, list=16%, signal=24%
BRAIN_development	47	0.3383	0.945178	0.534286	0.799896	1	780 tags=11%, list=5%, signal=11%	-0.323095	-0.997048	0.427711	0.660276	1	2306 tags=19%, list=14%, signal=22%
GSE17721_LPS_VS_POLYIC_12H_BMDM	180	0.283824	0.945151	0.588802	0.79954	1	3881 tags=32%, list=24%, signal=42%	0.255335	0.869991	0.79602	0.892407	1	1536 tags=14%, list=10%, signal=16%
Excitatory_extracellular_ligand	20	0.400975	0.945092	0.531981	0.799287	1	4049 tags=20%, list=25%, signal=27%	0.316023	0.753538	0.84065	0.981789	1	181 tags=5%, list=1%, signal=5%
GSE10239_NAIVE_VS_MEMORY_CD8	170	0.285122	0.945083	0.595152	0.799887	1	3132 tags=22%, list=20%, signal=27%	-0.297758	-1.13445	0.13198	0.470404	1	1537 tags=18%, list=10%, signal=19%
GSE32432_CTRL_VS_IL7_MEMORY_CI	172	0.285442	0.944989	0.611043	0.798729	1	2146 tags=15%, list=13%, signal=17%	0.385715	1.29393	0.0342205	0.2966875	1	3307 tags=27%, list=21%, signal=34%
GSE17721_PAM3CSK4_VS_GADIQUIN	175	0.282882	0.944865	0.598549	0.798682	1	3723 tags=28%, list=23%, signal=36%	0.322498	1.08021	0.298489	0.6026	1	3848 tags=28%, list=24%, signal=36%
GSE9988_ANTI_TREM1_VS_ANTI_TRE	176	0.284744	0.944726	0.573604	0.79867	1	2696 tags=24%, list=17%, signal=29%	0.278501	0.934834	0.627376	0.805778	1	3523 tags=31%, list=22%, signal=39%
GSE65665_STRONG_VS_WEAK_DC_ST1	147	0.289872	0.944709	0.597436	0.798278	1	3222 tags=24%, list=20%, signal=30%	0.365937	1.22023	0.0949285	0.405349	1	3259 tags=26%, list=20%, signal=32%
GSE360_DONOVANI_VS_T_GONDII	173	0.283719	0.944662	0.610913	0.797977	1	2693 tags=20%, list=17%, signal=24%	0.365818	1.25243	0.0598504	0.356355	1	2860 tags=18%, list=18%, signal=22%
GSE6269_FLU_VS_STREP_PNEUMO_IJ	147	0.289587	0.944647	0.585213	0.79758	1	2045 tags=15%, list=13%, signal=17%	-0.274876	-1.03132	0.355556	0.609843	1	2179 tags=18%, list=14%, signal=20%
GSE13229_MATURE_VS_INTMATURE	173	0.283553	0.944612	0.623921	0.797238	1	2830 tags=19%, list=18%, signal=23%	0.353234	1.17661	0.130273	0.454722	1	3573 tags=28%, list=21%, signal=35%
GSE22886_DAY0_VS_DAY1_MONOCY	178	0.283044	0.944357	0.595912	0.797588	1	3263 tags=30%, list=20%, signal=37%	-0.344036	-1.33965	0	0.344043	1	2721 tags=37%, list=17%, signal=43%
Protein_N_terminus_binding	38	0.350667	0.944277	0.544941	0.797393	1	2697 tags=24%, list=17%, signal=28%	0.381137	1.04811	0.370597	0.666483	1	3396 tags=37%, list=21%, signal=47%
GSE17721_POLYIC_VS_PAM3CSK4_4f	177	0.285084	0.944189	0.601212	0.797211	1	4009 tags=35%, list=25%, signal=46%	0.25481	0.858691	0.826877	0.900945	1	3175 tags=25%, list=20%, signal=31%
Golgi_apparatus_part	90	0.304225	0.943744	0.561737	0.798168	1	3726 tags=33%, list=23%, signal=43%	0.443753	1.38697	0.0307263	0.199911	1	3371 tags=43%, list=21%, signal=55%
GSE17721_CTRL_VS_B_MALAYI_HIGH_E	179	0.280167	0.943579	0.600237	0.798259	1	3264 tags=23%, list=20%, signal=29%	0.360509	1.22813	0.0763547	0.387491	1	2086 tags=23%, list=13%, signal=26%
GSE24142_EARLY_THYMIC_PROGENIT	166	0.283704	0.943152	0.586716	0.801491	1	3290 tags=27%, list=20%, signal=34%	0.30565	1.03482	0.379571	0.690915	1	2944 tags=25%, list=18%, signal=30%
Kinase_activity	334	0.26936	0.943143	0.617202	0.80177	1	3458 tags=27%, list=22%, signal=34%	0.242176	0.864122	0.873192	0.897409	1	3673 tags=30%, list=23%, signal=38%
GSE8678_IL7R_LOW_VS_HIGH_EFF_C	186	0.280118	0.942833	0.615294	0.801387	1	1940 tags=20%, list=12%, signal=22%	-0.322594	-1.24962	0.0277778	0.3746	1	2751 tags=32%, list=17%, signal=38%
Trans_golgi_network	17	0.408228	0.940434	0.552588	0.803655	1	1996 tags=29%, list=12%, signal=34%	0.56683	1.30303	0.133779	0.283954	1	3371 tags=47%, list=21%, signal=60%
GSE22786_LSK_VS_CD4_CELL_UP	173	0.284314	0.939643	0.622114	0.805663	1	2749 tags=22%, list=17%, signal=30%	0.285493	0.966606	0.529634	0.77507	1	4574 tags=40%, list=28%, signal=55%
Nucleocytoplasmic_transport	77	0.310482	0.939479	0.566982	0.805772	1	3499 tags=32%, list=22%, signal=41%	-0.290558	-1.00095</td				

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE22886_NAIVE_TCELL_VS_NKCELL_	175	0.278678	0.934613	0.642336	0.813497	1	2870 tags=23%, list=18%, signal=28%	-0.24963	-0.948122	0.668367	0.765606	1	2745 tags=29%, list=17%, signal=34%
GSE17721_CTRL_VS_CPG_12H_BMDN	172	0.281801	0.934113	0.628049	0.814585	1	3103 tags=30%, list=19%, signal=36%	-0.271163	-1.04488	0.255682	0.591325	1	2957 tags=31%, list=18%, signal=38%
GSE9988_LPS_VS_LOW_LPS_MONOC	128	0.295311	0.933617	0.610969	0.81574	1	3104 tags=20%, list=16%, signal=24%	0.285529	0.938305	0.598958	0.801661	1	2611 tags=15%, list=16%, signal=18%
GSE12194_TFH_VS_TH1_CD4_TCELL_	173	0.282638	0.933481	0.63848	0.815685	1	4142 tags=38%, list=26%, signal=51%	0.240094	0.812508	0.92394	0.94447	1	3829 tags=29%, list=24%, signal=38%
GSE26928_NAIVE_VS_CENT_MEMOR	156	0.282754	0.933146	0.636699	0.816316	1	3858 tags=35%, list=24%, signal=46%	-0.267334	-1.01784	0.425	0.623214	1	2010 tags=22%, list=13%, signal=25%
TRANSCRIPTION_ACTIVATOR_ACTIVIT	160	0.282565	0.932811	0.642946	0.816914	1	2591 tags=18%, list=16%, signal=21%	-0.339258	-1.31704	0.0162162	0.335783	1	3120 tags=29%, list=19%, signal=36%
G_PROTEIN_SIGNALING_COUPLED_TC	43	0.337034	0.932128	0.575342	0.818543	1	2638 tags=19%, list=16%, signal=22%	0.337638	0.945948	0.56124	0.792555	1	1521 tags=14%, list=9%, signal=15%
NUCLEAR_TRANSPORT	78	0.3057	0.932087	0.610512	0.818233	1	3499 tags=32%, list=22%, signal=41%	-0.277957	-0.950679	0.553114	0.766848	1	2942 tags=31%, list=18%, signal=37%
GSE360_CTRL_VS_L_MAJOR_DC_UP	173	0.281105	0.93185	0.653894	0.818558	1	3608 tags=32%, list=22%, signal=41%	0.382978	1.28146	0.0415617	0.310221	1	3381 tags=34%, list=21%, signal=43%
GSE27786_NKCELL_VS_NEUTROPHIL_	164	0.282078	0.931605	0.631188	0.818885	1	2809 tags=21%, list=17%, signal=25%	0.272452	0.92293	0.666667	0.824426	1	3688 tags=26%, list=23%, signal=33%
GSE17721_CTRL_VS_GARDIQUIMOD	169	0.28236	0.931231	0.651332	0.819582	1	3199 tags=24%, list=20%, signal=30%	0.331263	1.11175	0.228288	0.548328	1	3286 tags=28%, list=20%, signal=35%
GSE29618_PRV_VS_DAY7_POST_LAIV	164	0.281497	0.93113	0.6275	0.819448	1	3217 tags=18%, list=20%, signal=22%	-0.246081	-0.931368	0.678392	0.79974	1	3196 tags=17%, list=20%, signal=21%
GSE29614_CTRL_VS_TV_FLU_VACCIN	133	0.28869	0.930962	0.632242	0.819502	1	4957 tags=23%, list=31%, signal=33%	-0.248715	-0.92215	0.701923	0.814014	1	4370 tags=24%, list=27%, signal=33%
GSE13484_UNSTIM_VS_12H_YF17D_	172	0.280238	0.930953	0.635151	0.819081	1	3064 tags=25%, list=19%, signal=31%	0.29218	0.986961	0.490247	0.751619	1	2544 tags=24%, list=16%, signal=28%
GSE339_CD4POS_VS_CD8POS_DC_IN	179	0.279156	0.930528	0.647837	0.819966	1	3056 tags=22%, list=19%, signal=27%	0.311732	1.05557	0.31746	0.654159	1	3273 tags=24%, list=20%, signal=30%
GSE13306_RA_VS_UNTREATED_TCON	169	0.282398	0.930383	0.640741	0.819973	1	1904 tags=15%, list=12%, signal=17%	0.232024	0.782787	0.956843	0.968843	1	4490 tags=33%, list=28%, signal=46%
NEGATIVE_REGULATION_OF_CELLUL	234	0.272816	0.929969	0.666667	0.820845	1	3103 tags=23%, list=19%, signal=28%	0.334701	1.15898	0.12426	0.483349	1	2711 tags=24%, list=17%, signal=28%
GSE14308_TH1_VS_NATURAL_TREG	176	0.279518	0.929934	0.645122	0.820513	1	1463 tags=14%, list=9%, signal=15%	0.358333	1.20219	0.0923261	0.427687	1	2931 tags=27%, list=18%, signal=33%
GSE3982_CTRL_VS_LPS_1H_NEUTROI	168	0.279735	0.929472	0.640898	0.821513	1	3863 tags=29%, list=24%, signal=37%	-0.279779	-1.06589	0.235849	0.554397	1	2101 tags=21%, list=13%, signal=24%
GSE29614_CTRL_VS_DAY7_TIV_FLU_	129	0.288133	0.929179	0.636135	0.821952	1	2803 tags=14%, list=17%, signal=17%	0.229158	0.748494	0.979275	0.982951	1	3761 tags=18%, list=23%, signal=23%
CYCLIC_NUCLEOTIDE_MEDIATED_SIGI	96	0.297062	0.929112	0.624506	0.821721	1	2889 tags=14%, list=18%, signal=16%	0.249617	0.781113	0.897616	0.969057	1	3276 tags=16%, list=20%, signal=20%
GSE19825_CD24LOW_VS_IL2RA_HIIG	169	0.279616	0.929093	0.642512	0.821343	1	3896 tags=37%, list=24%, signal=48%	0.256324	0.867458	0.80402	0.893764	1	3608 tags=34%, list=22%, signal=44%
GSE2197_CPA_DNA_VS_UNTREATED	177	0.278181	0.928858	0.660562	0.821627	1	3914 tags=29%, list=24%, signal=38%	0.286427	0.969568	0.549618	0.773258	1	3351 tags=28%, list=21%, signal=35%
GSE9650_NAIVE_VS_EFF_CD8_TCELL	179	0.279293	0.928792	0.649272	0.821378	1	3124 tags=27%, list=19%, signal=33%	0.276657	0.9457	0.608426	0.791649	1	2337 tags=23%, list=15%, signal=27%
GSE17974_1H_VS_72H_UNTREATED	173	0.279537	0.928518	0.666667	0.821804	1	2272 tags=19%, list=14%, signal=22%	0.445447	1.50481	0.00124069	0.127121	1	2929 tags=36%, list=18%, signal=43%
GSE6269_E_COLI_STREP_AUREUS	136	0.286014	0.928391	0.611183	0.821746	1	2714 tags=25%, list=17%, signal=30%	-0.359438	-1.3371	0.0176211	0.34239	1	1645 tags=26%, list=10%, signal=28%
GSE3982_BASOPHIL_VS_CENT_MEMC	176	0.278238	0.928142	0.645241	0.820283	1	3461 tags=28%, list=22%, signal=35%	0.302617	1.01176	0.451493	0.726144	1	3301 tags=26%, list=21%, signal=32%
ENZYME_LINKED_RECEPTOR_PROTEIN	122	0.291615	0.927874	0.621656	0.822463	1	3203 tags=20%, list=20%, signal=25%	-0.313331	-1.14424	0.137441	0.46421	1	1812 tags=19%, list=11%, signal=21%
GSE11057_PBMC_VS_MEM_CD4_TCE	166	0.279963	0.927792	0.636142	0.82227	1	3809 tags=34%, list=24%, signal=45%	-0.293295	-1.12727	0.121827	0.483704	1	2018 tags=27%, list=13%, signal=30%
NEGATIVE_REGULATION_OF_METABC	236	0.272192	0.927076	0.6702	0.824009	1	3103 tags=23%, list=19%, signal=28%	0.333678	1.14864	0.154118	0.493332	1	2711 tags=24%, list=17%, signal=28%
REGULATION_OF_INK_ACTIVITY	20	0.392011	0.926855	0.55312	0.824266	1	1456 tags=20%, list=9%, signal=22%	-0.391953	-1.01838	0.40796	0.625005	1	3046 tags=50%, list=19%, signal=62%
T_CELL_PROLIFERATION	17	0.403787	0.92672	0.566558	0.824243	1	561 tags=18%, list=3%, signal=18%	0.496532	1.13546	0.280587	0.516688	1	4665 tags=53%, list=29%, signal=75%
GSE14308_TH2_VS_NAIVE_CD4_TCEL	174	0.277555	0.926641	0.62757	0.824031	1	4069 tags=35%, list=25%, signal=46%	0.287011	0.964032	0.556946	0.774083	1	2474 tags=20%, list=15%, signal=24%
POSITIVE_REGULATION_OF_CASPASE	27	0.364211	0.926571	0.581144	0.823795	1	3289 tags=37%, list=20%, signal=47%	0.283604	0.728564	0.902121	0.990951	1	1973 tags=15%, list=12%, signal=17%
GSE12845_IDG_POS_BLOOD_VS_DAR	172	0.279379	0.925669	0.657178	0.826114	1	3555 tags=30%, list=22%, signal=38%	0.308407	1.03115	0.387833	0.697035	1	3818 tags=34%, list=24%, signal=44%
GSE15215_CD2_POS_VS_NEG_PDC_D	181	0.279746	0.925546	0.682095	0.826041	1	2531 tags=25%, list=16%, signal=29%	0.31333	1.05652	0.316626	0.651594	1	3510 tags=36%, list=22%, signal=46%
GSE360_L_DONOVANI_VS_B_MALAYI	180	0.277517	0.924842	0.652065	0.827721	1	3297 tags=27%, list=21%, signal=34%	0.465307	1.57771	0	0.0831684	0.997	3108 tags=37%, list=19%, signal=46%
GSE10325_MYELOID_VS_LUPUS_MYE	166	0.279779	0.924214	0.657035	0.828669	1	3643 tags=30%, list=23%, signal=39%	0.248897	0.844385	0.85912	0.913197	1	2346 tags=20%, list=15%, signal=23%
GSE17974_1.5H_VS_72H_IL4_AND_A	177	0.279941	0.924182	0.671037	0.828324	1	1343 tags=9%, list=8%, signal=10%	0.419618	1.42013	0.0051509	0.170962	1	2767 tags=19%, list=17%, signal=23%
GSE16522_MEMORY_VS_NAIVE_ANT	177	0.277692	0.923547	0.652491	0.829769	1	3647 tags=32%, list=23%, signal=40%	0.402241	1.33974	0.02457	0.251801	1	3097 tags=30%, list=19%, signal=37%
GSE9000_HEALTHY_VS_TYPE_1_DIAB	173	0.278209	0.923363	0.657895	0.829918	1	3420 tags=28%, list=21%, signal=36%	0.393594	1.32211	0.0212235	0.268592	1	2127 tags=25%, list=13%, signal=29%
NUCLEAR_MEMBRANE_PART	37	0.344928	0.923281	0.590705	0.829732	1	2121 tags=18%, list=13%, signal=21%	0.281332	0.946337	0.585821	0.793812	1	3129 tags=24%, list=19%, signal=30%
GSE29618_LAV_VS_TIV_FLU_VACCIN	171	0.276068	0.923061	0.629988	0.829943	1	2927 tags=32%, list=18%, signal=40%	0.505739	1.37433	0.061747	0.212936	1	3199 tags=35%, list=20%, signal=44%
GSE12366_PLASMA_CELL_VS_MEMO	169	0.275571	0.922595	0.653465	0.830883	1	3288 tags=31%, list=20%, signal=38%	-0.336992	-1.28224	0.02	0.350367	1	3756 tags=45%, list=23%, signal=58%
NUCLEAR_MEMBRANE	44	0.332327	0.921019	0.599106	0.835208	1	2927 tags=32%, list=18%, signal=39%	0.463234	1.29337	0.101227	0.296857	1	3199 tags=34%, list=20%, signal=42%
GSE8515_CTRL_VS_IL1_4H_STIM_MA	168	0.280303	0.920313	0.656028	0.836869	1	3414 tags=27%, list=21%, signal=34%	0.246957	0.824504	0.882576	0.931866	1	4063 tags=30%, list=25%, signal=40%
GSE27786_NKCELL_VS_ERYTHROBLAS	173	0.277853	0.920248	0.667897	0.836648	1	2718 tags=25%, list=17%, signal=30%	0.226503	0.760873	0.967825	0.978169	1	3967 tags=31%, list=25%, signal=41%
OXIDOREDUCTASE_ACTIVITY	254	0.269591	0.920217	0.685549	0.836289	1	3108 tags=23%, list=19%, signal=28%	0.323127	1.13905	0.134911	0.512232	1	3409 tags=27%, list=21%, signal=33%
GSE27786_CD4_TCELL_VS_ERYTHROHTRO	171	0.279096	0.920201	0.675121	0.836173	1	2205 tags=20%, list=14%, signal=23%	-0.324275	-0.89056	0.845745	0.886687	1	1955 tags=20%, list=12%, signal=23%
GSE360_L_DONOVANI_VS_B_MALAYI	172	0.276995	0.91994	0.677778	0.836169	1	3190 tags=24%, list=20%, signal=29%	-0.258372	-0.998208	0.444976	0.660651	1	1496 tags=16%, list=9%, signal=17%
GSE17974_2.5H_VS_72H_IL4_AND_A	169	0.278509	0.919819	0.672435	0.836108	1	3367 tags=29%, list=21%, signal=36%	-0.283316	-1.08614	0.182266	0.539809	1	2621 tags=30%, list=16%, signal=35%
GSE2706_R848_VS_LPS_BH_STIM_DC	127	0.278604	0.919462	0.631783	0.836721	1	3443 tags=24%, list=21%, signal=30%	-0.306158	-1.13725	0.130841	0.471654	1	2639 tags=22%, list=16%, signal=26%
APOPTOTIC_NUCLEAR_CHANGES	16	0.406409	0.91944	0.568938	0.836342	1	1470 tags=25%, list=9%, signal=27%	0.43993	0.988409	0.499182	0.753857	1	2550 tags=38%, list=16%, signal=45%
GSE1432_CTRL_VS_IFNG_24H_MICRC	168	0.278716	0.919136	0.664151	0.836804	1	3113 tags=26%, list=16%, signal=32%	0.297318	0.996047	0.491272	0.746839	1	2878 tags=27%, list=18%, signal=32%
PATTERN_BINDING	39	0.341593	0.918922	0.59276	0.836991	1	1019 tags=13%, list=6%, signal=14%	-0.312945	-0.944373	0.533014	0.768098	1	2847 tags=23%, list=18%, signal=28%
GSE36476_YOUNG_VS_OLD_DONOR	171	0.277017	0.918863	0.670412	0.836724	1	2339 tags=23%, list=15%, signal=26%	0.3965	1.32978	0.018226	0.261982	1	2137 tags=30%, list=13%, signal=34%
GSE360_L_MAJOR_VS_B_MALAYI_HI	170	0.276769	0.918478	0.6804	0.837442	1	1834 tags=18%, list=11%, signal=20%	0.382321	1.28964	0.032419	0.302579	1	2347 tags=27%, list=15%, signal=31%
GSE9650_GP33_VS_GP276_LCMV													

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

ATP_BINDING	145	0.279115	0.913109	0.666667	0.843208	1	3609 tags=30%, list=22%, signal=39%	-0.289847	-1.08127	0.233184	0.539815	1	1971 tags=23%, list=12%, signal=26%
GSE27786_B_CELL_VS_NEUTROPHIL_D	175	0.27465	0.913047	0.690158	0.842969	1	3121 tags=22%, list=19%, signal=27%	0.280395	0.945004	0.598513	0.792668	1	3830 tags=29%, list=24%, signal=38%
RAS_GTPASE_ACTIVATOR_ACTIVITY	24	0.369467	0.912589	0.588957	0.843858	1	1122 tags=17%, list=7%, signal=18%	-0.34902	-0.927577	0.5625	0.805058	1	3873 tags=50%, list=24%, signal=66%
GSE7460_CD8_TCELL_VS_CD4_TCELL	177	0.274243	0.912297	0.679707	0.843	1	2201 tags=20%, list=14%, signal=23%	0.253432	0.845399	0.848837	0.912707	1	2986 tags=24%, list=19%, signal=29%
REGULATION_OF_ORGANELLE_ORGA	37	0.340555	0.911813	0.622189	0.845228	1	855 tags=14%, list=5%, signal=14%	0.427389	1.15127	0.233588	0.492403	1	2666 tags=35%, list=17%, signal=42%
PORE_COMPLEX	31	0.356917	0.911624	0.603945	0.845321	1	2927 tags=29%, list=18%, signal=35%	0.538163	1.43309	0.0513644	0.160549	1	1656 tags=23%, list=10%, signal=25%
THIOLESTER_HYDROLASE_ACTIVITY	15	0.414032	0.911266	0.582781	0.845911	1	1589 tags=27%, list=10%, signal=30%	0.436866	0.990194	0.469072	0.750158	1	3081 tags=33%, list=19%, signal=41%
GSE260_LOW_DOSE_B_MALAYI_N	173	0.273645	0.91124	0.682103	0.845548	1	3263 tags=27%, list=20%, signal=33%	0.436339	1.47515	0.00246609	0.137156	1	3455 tags=37%, list=22%, signal=47%
GSE22886_NAIVE_CD4_TCELL_VS_MC	166	0.274344	0.911134	0.709047	0.845421	1	2472 tags=24%, list=15%, signal=28%	-0.254101	-0.969631	0.530516	0.723379	1	1166 tags=15%, list=7%, signal=16%
MICROBODY	44	0.32529	0.91039	0.633782	0.84717	1	2759 tags=34%, list=17%, signal=41%	0.399801	1.11591	0.267496	0.542073	1	3846 tags=36%, list=24%, signal=48%
GSE17721_CTRL_VS_PAM3CSK4_8H_I	173	0.275105	0.910372	0.695913	0.846727	1	3329 tags=24%, list=21%, signal=30%	0.262629	0.885401	0.763291	0.875402	1	3200 tags=23%, list=20%, signal=28%
GSE17721_POLYIC_VS_GARDIQUIMO	182	0.272879	0.910169	0.691477	0.846896	1	3133 tags=24%, list=20%, signal=30%	0.258574	0.872165	0.766089	0.891139	1	3719 tags=30%, list=23%, signal=38%
GSE30083_SP1_VS_PA4_THYMOCYTE	169	0.274743	0.910154	0.711844	0.846503	1	1975 tags=20%, list=12%, signal=23%	0.280984	-1.08007	0.238095	0.541303	1	2052 tags=22%, list=13%, signal=26%
GSE7460_TREG_VS_TC0NV_ACT_DN	166	0.272733	0.910107	0.682776	0.846199	1	2759 tags=21%, list=17%, signal=25%	0.250726	0.839918	0.803073	0.914801	1	2446 tags=17%, list=15%, signal=20%
GSE17721_CTRL_VS_PAM3CSK4_4H_I	173	0.273693	0.909906	0.686336	0.846337	1	2894 tags=24%, list=18%, signal=29%	0.365244	1.21492	0.0767296	0.412369	1	3260 tags=38%, list=20%, signal=47%
GSE17974_CTRL_VS_ACT_I14_AND_A	158	0.276995	0.909222	0.688482	0.847877	1	2737 tags=21%, list=17%, signal=25%	0.27649	0.915754	0.672457	0.833082	1	2826 tags=22%, list=18%, signal=27%
POSITIVE_REGULATION_OF_TRANSPLIC	23	0.372466	0.909162	0.619048	0.847632	1	2227 tags=26%, list=14%, signal=30%	0.298654	0.737495	0.868502	0.987979	1	2519 tags=17%, list=16%, signal=21%
CARBOXYESTERASE_ACTIVITY	30	0.354372	0.909056	0.618271	0.847498	1	1778 tags=13%, list=11%, signal=15%	0.497115	1.29263	0.121359	0.296593	1	1651 tags=20%, list=10%, signal=22%
GSE29618_PRE_VS_DAY7_POST_LAIV	172	0.273433	0.90896	0.69125	0.847334	1	2332 tags=19%, list=15%, signal=22%	-0.344781	-1.33304	0	0.339329	1	2457 tags=30%, list=15%, signal=35%
GSE17721_LPS_VS_GARDIQUIMOD_1	174	0.271667	0.908923	0.694581	0.846998	1	2745 tags=25%, list=17%, signal=30%	-0.278399	-1.07161	0.248705	0.5533514	1	1777 tags=23%, list=11%, signal=26%
GSE10325_MYELOID_VS_LUPUS_MYE	171	0.273727	0.908847	0.692588	0.846795	1	3460 tags=30%, list=22%, signal=38%	0.299315	0.997974	0.490361	0.743153	1	2995 tags=28%, list=19%, signal=34%
GSE27786_CD4_TCELL_NKTCELL_I	179	0.273026	0.90883	0.699147	0.8464	1	3631 tags=28%, list=23%, signal=36%	0.359946	1.20492	0.0787208	0.424347	1	3106 tags=31%, list=19%, signal=38%
PHOSPHOINOSITIDE_MEDiated_SIGN	45	0.325691	0.908799	0.636232	0.846053	1	2638 tags=18%, list=16%, signal=21%	0.330264	0.923732	0.591528	0.823458	1	1521 tags=13%, list=9%, signal=15%
GSE17721_POLYIC_VS_PAM3CSK4_1H	183	0.273417	0.90876	0.708333	0.845734	1	3522 tags=27%, list=22%, signal=34%	-0.253328	-0.981822	0.518868	0.696496	1	3051 tags=29%, list=19%, signal=35%
GSE360_L_DONOVAN_B_MALAYI	179	0.274365	0.908729	0.695547	0.845833	1	3108 tags=21%, list=19%, signal=26%	0.26724	0.906715	0.724691	0.843742	1	2542 tags=21%, list=16%, signal=24%
GSE22886_IGG_IGA_MEMORY_BCELL	173	0.27562	0.908843	0.689781	0.845775	1	4262 tags=35%, list=27%, signal=47%	0.338195	1.1474	0.186567	0.495638	1	3261 tags=29%, list=20%, signal=37%
GSE17721_CTRL_VS_CPG_1H_BMDM	174	0.273688	0.908363	0.684729	0.845535	1	2973 tags=25%, list=19%, signal=31%	0.370092	1.24773	0.0628853	0.362433	1	3193 tags=34%, list=20%, signal=43%
GSE15659_RESTING_TREG_VS_NONS	143	0.278417	0.908301	0.690955	0.845265	1	2901 tags=20%, list=18%, signal=24%	0.261306	0.868635	0.785436	0.894013	1	1801 tags=11%, list=11%, signal=12%
GUANYL_NUCLEOTIDE_EXCHANGE_F	40	0.335444	0.907996	0.628447	0.845705	1	1689 tags=18%, list=11%, signal=20%	0.336616	0.92867	0.603744	0.814158	1	3935 tags=38%, list=25%, signal=50%
GSE9037_WT_VS_IRAK4_KO_BMDM	180	0.271336	0.907825	0.702703	0.845769	1	2706 tags=23%, list=17%, signal=27%	-0.395533	-1.55203	0	0.308228	0.994	3312 tags=36%, list=21%, signal=45%
GSE15903_STIM_VS_STIM_AND_IFNA	169	0.273114	0.907526	0.698663	0.846193	1	2722 tags=20%, list=17%, signal=23%	0.277944	0.94101	0.599241	0.799464	1	4014 tags=28%, list=15%, signal=37%
GSE17721_CTRL_VS_POLYIC_4H_BMC	184	0.270705	0.907056	0.697842	0.84711	1	2261 tags=20%, list=14%, signal=23%	-0.247327	-0.952969	0.625	0.76511	1	2981 tags=27%, list=19%, signal=32%
GSE17721_CTRL_VS_CPG_6H_BMDM	179	0.270611	0.906958	0.67866	0.846963	1	2850 tags=20%, list=18%, signal=24%	0.29644	0.999518	0.466091	0.741215	1	2530 tags=22%, list=16%, signal=26%
GSE360_CTRL_VS_M_TUBERCULOSIS	178	0.269966	0.906545	0.698091	0.847711	1	3391 tags=25%, list=21%, signal=31%	0.347007	1.16752	0.148193	0.468844	1	3589 tags=37%, list=22%, signal=47%
ACETYLTRANSFERASE_ACTIVITY	23	0.370397	0.906306	0.579666	0.847965	1	3654 tags=39%, list=23%, signal=51%	0.336634	0.828178	0.725203	0.928188	1	2629 tags=26%, list=16%, signal=31%
RESPONSE_TO_EXTRACELLULAR_STIM	30	0.350548	0.905353	0.610932	0.845030	1	5859 tags=47%, list=37%, signal=73%	0.437284	1.15051	0.244094	0.489646	1	2812 tags=27%, list=18%, signal=32%
GSE39820_TGFbeta1_VS_TGFbeta3	169	0.272741	0.905021	0.701493	0.850841	1	2841 tags=19%, list=18%, signal=23%	0.270388	0.915801	0.686493	0.833415	1	4488 tags=31%, list=28%, signal=42%
GSE17721_LPS_VS_CPG_2H_BMDM_I	169	0.273283	0.904846	0.700361	0.850914	1	3424 tags=23%, list=21%, signal=29%	0.340029	1.13589	0.191542	0.516197	1	3728 tags=31%, list=23%, signal=40%
GSE29617_CTRL_VS_TV_FLU_VACCIN	177	0.272913	0.903981	0.716526	0.85297	1	1957 tags=15%, list=12%, signal=17%	0.325459	1.1075	0.249703	0.554231	1	2509 tags=25%, list=16%, signal=29%
OXIDOREDUCTASE_ACTIVITY_ACTING	21	0.37362	0.903644	0.606159	0.853472	1	2332 tags=24%, list=15%, signal=28%	0.317143	0.769358	0.835749	0.974355	1	3108 tags=29%, list=19%, signal=35%
GSE18791_UNSTIM_VS_NEWCATSLE	134	0.279923	0.903442	0.69201	0.853617	1	2761 tags=17%, list=17%, signal=21%	0.259562	0.843908	0.810323	0.91148	1	2908 tags=17%, list=18%, signal=21%
GSE13493_DP_VS_CD8POS_THYMOC	169	0.272596	0.903056	0.702337	0.845471	1	2800 tags=22%, list=17%, signal=27%	0.298914	1.00409	0.479755	0.738274	1	3634 tags=32%, list=23%, signal=41%
GSE17721_POLYIC_VS_PAM3CSK4_4H	175	0.271868	0.903004	0.700121	0.853968	1	1881 tags=16%, list=12%, signal=18%	0.25798	0.868449	0.807082	0.894043	1	2322 tags=18%, list=14%, signal=21%
MITOTIC_CELL_CYCLE_CHECKPOINT	19	0.387273	0.902289	0.580952	0.855564	1	4258 tags=27%, list=21%, signal=64%	0.417	0.979842	0.480207	0.763474	1	1805 tags=26%, list=11%, signal=30%
GSE17721_POLYIC_VS_CPG_2B_BMD	182	0.271047	0.902226	0.7046	0.855305	1	2490 tags=25%, list=16%, signal=29%	-0.270387	-1.04163	0.318681	0.60081	1	2421 tags=25%, list=15%, signal=29%
GSE24412_EARLY_THYMIC_PROGENIT	174	0.27282	0.902025	0.719255	0.855422	1	3647 tags=30%, list=23%, signal=39%	0.334354	1.12315	0.209559	0.533139	1	3667 tags=36%, list=23%, signal=46%
GSE1378_CTRL_VS_BYSTANDER_ACTI	173	0.271348	0.901786	0.851221	0.855723	1	1751 tags=18%, list=11%, signal=21%	0.295111	0.987055	0.498089	0.75181	1	2588 tags=23%, list=16%, signal=27%
REGULATION_OF_HEART_CONTRACTI	23	0.367967	0.901618	0.598716	0.855747	1	475 tags=9%, list=6%, signal=9%	0.419641	1.0228	0.422512	0.7044	1	4371 tags=35%, list=27%, signal=48%
GSE14026_TH1_VS_TH17_IN_D7	178	0.271956	0.901604	0.711165	0.855354	1	3100 tags=22%, list=19%, signal=27%	0.241054	0.808344	0.923821	0.949093	1	3355 tags=24%, list=21%, signal=30%
GSE13485_DAY3_VS_DAY21_YF17D	161	0.271441	0.901098	0.701474	0.856387	1	3084 tags=29%, list=19%, signal=36%	-0.264085	-0.994141	0.480952	0.668796	1	2617 tags=30%, list=16%, signal=35%
GSE17721_0.5H_VS_12H_GARDIQUIN	180	0.269018	0.900739	0.71481	0.856923	1	3064 tags=25%, list=19%, signal=31%	0.298274	1.00969	0.450617	0.727721	1	2620 tags=25%, list=16%, signal=30%
GSE15659_NAIVE_CD4_TCELL_VS_REL	159	0.273503	0.900567	0.707674	0.857039	1	3916 tags=25%, list=24%, signal=32%	0.302098	1.0559	0.491865	0.73438	1	3702 tags=26%, list=23%, signal=33%
GSE13493_CD4INTCD8POS_COBPI	170	0.271483	0.900382	0.719298	0.857112	1	3674 tags=27%, list=23%, signal=35%	0.270171	0.901962	0.714111	0.852119	1	2632 tags=21%, list=16%, signal=25%
GSE27786_CD8_TCELL_VS_NKCELL_U	171	0.270506	0.899848	0.706918	0.858217	1	2770 tags=20%, list=17%, signal=24%	-0.252875	-0.959636	0.579208	0.748379	1	2810 tags=27%, list=18%, signal=33%
VESICLE_MEMBRANE	28	0.353604	0.899766	0.6176	0.858014	1	2193 tags=18%, list=14%, signal=21%	0.261577	1.60266	0.00445765	0.0861675	0.989	3179 tags=50%, list=20%, signal=62%
GSE31028_NAIVE_VS_PA4_SP1_THYMOC	172	0.271265	0.899471	0.709091	0.858412	1	3124 tags=27%, list=19%, signal=33%	-0.247369	-0.947018	0.653846	0.766286	1	3663 tags=36%, list=23%, signal=46%
GSE360_L_MAJOR_VS_M_TUBERCUL	175	0.269516	0.899019	0.727047	0.85926	1	4546 tags=36%, list=28%, signal=50%	0.271353	1.91707	0.689394	0.833017	1	4028 tags=31%, list=25%, signal=41%
GSE7852_LN_VS_THYMOV_TC0NV_U	175												

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE17974_CTRL_VS_ACT_IL4_AND_A	170	0.269335	0.891364	0.755772	0.870049	1	2627 tags=23%, list=16%, signal=27%	-0.308883	-1.19	0.0457143	0.437898	1	1937 tags=24%, list=12%, signal=27%
GTP_BINDING	42	0.325209	0.890649	0.669219	0.871646	1	1346 tags=17%, list=8%, signal=18%	0.388232	1.07837	0.342593	0.603532	1	3505 tags=38%, list=22%, signal=49%
GSE1460_CD4_THYMOCYTE_VS_NAIV	167	0.270094	0.890601	0.76	0.871348	1	1856 tags=16%, list=12%, signal=17%	-0.269145	-1.0352	0.285	0.60194	1	2586 tags=28%, list=16%, signal=33%
GSE17721_LPS_VS_PAMCSK4_6H_BI	184	0.267633	0.890594	0.748139	0.870934	1	3502 tags=24%, list=22%, signal=31%	0.246208	0.822225	0.903305	0.935068	1	4190 tags=30%, list=26%, signal=40%
ACTIN_FILAMENT_ORGANIZATION	21	0.369564	0.890272	0.61254	0.871349	1	3103 tags=24%, list=19%, signal=29%	-0.278561	-0.734753	0.899225	0.996007	1	19 tags=5%, list=0%, signal=5%
GSE18791_CTRL_VS_NEWCASTLE_VIR	167	0.268543	0.889518	0.755501	0.872921	1	3506 tags=28%, list=22%, signal=35%	-0.316333	-1.20553	0.037037	0.424775	1	2788 tags=30%, list=17%, signal=36%
GSE11864_CSF1_IFNG_VS_CSF1_IFNG	174	0.266346	0.88916	0.75495	0.873487	1	2858 tags=25%, list=18%, signal=30%	0.355817	1.18949	0.119018	0.441428	1	3138 tags=33%, list=20%, signal=41%
GSE17825_LN24H_TREG_UP	185	0.264395	0.888825	0.745882	0.873978	1	3332 tags=30%, list=21%, signal=37%	0.317923	1.07067	0.3	0.623329	1	2990 tags=30%, list=19%, signal=37%
GSE17721_0_5H_VS_24H_POLYIC_BM	171	0.27002	0.888697	0.750306	0.873879	1	3353 tags=24%, list=21%, signal=30%	0.293696	0.986065	0.504926	0.749998	1	3535 tags=29%, list=22%, signal=37%
GSE17974_0H_VS_12H_IN_VITRO_AC	172	0.268516	0.888697	0.752463	0.873444	1	3361 tags=30%, list=21%, signal=37%	0.382026	1.2748	0.0417193	0.318713	1	2182 tags=26%, list=14%, signal=29%
GSE7460_CTRL_VS_TGFb_TREATED_A	170	0.267569	0.888635	0.729352	0.873171	1	3051 tags=25%, list=19%, signal=30%	-0.252345	-0.96519	0.568528	0.736193	1	3314 tags=34%, list=21%, signal=43%
GSE14308_TH1_VS_NAIVE_CDD_TCEL	173	0.267249	0.88858	0.741104	0.872887	1	2732 tags=23%, list=17%, signal=28%	0.302202	1.01934	0.423816	0.708965	1	1282 tags=14%, list=8%, signal=16%
GSE17721_CTRL_VS_LPS_4H_BMDM	175	0.267635	0.888409	0.773608	0.872934	1	3526 tags=28%, list=22%, signal=35%	0.255455	0.860694	0.794776	0.898376	1	3503 tags=32%, list=22%, signal=40%
T_CELL_ACTIVATION	39	0.327147	0.888273	0.64723	0.872881	1	2522 tags=28%, list=16%, signal=33%	0.417165	1.14295	0.257009	0.507274	1	2545 tags=31%, list=16%, signal=36%
POSITIVE_REGULATION_OF_TRANSCR	22	0.327001	0.888197	0.629747	0.872671	1	2502 tags=27%, list=16%, signal=32%	0.266364	0.648101	0.958266	0.997479	1	3560 tags=32%, list=22%, signal=41%
GSE2197_IMMUNOSUPPRESSIVE_DN	187	0.267261	0.888165	0.76348	0.872318	1	3230 tags=28%, list=20%, signal=35%	0.298878	1.01205	0.438788	0.72731	1	2631 tags=25%, list=16%, signal=29%
GSE17721_CPG_VS_GARDIQUIMOD_	182	0.266973	0.887726	0.747253	0.873081	1	3319 tags=26%, list=21%, signal=32%	0.297178	1.00613	0.444305	0.734044	1	1658 tags=17%, list=10%, signal=19%
GSE339_CD8POS_VS_CD4CD8DN_DC	181	0.263931	0.886541	0.753071	0.875923	1	4069 tags=33%, list=25%, signal=43%	-0.298706	-1.16055	0.0717949	0.45956	1	2575 tags=30%, list=16%, signal=35%
GSE17721_POLYIC_VS_CPG_0.5_BM	182	0.268284	0.886243	0.761847	0.876279	1	3292 tags=27%, list=21%, signal=34%	0.328172	1.10416	0.241594	0.555591	1	2117 tags=22%, list=13%, signal=25%
GSE17721_PAM3CSK4_VS_CPG_12H	173	0.267184	0.886202	0.752439	0.875944	1	3541 tags=27%, list=22%, signal=34%	-0.245094	-0.946289	0.647059	0.766767	1	2458 tags=25%, list=15%, signal=29%
GSE24142_DN2_VS_DN3_THYMOCYT	187	0.263839	0.885923	0.774115	0.876281	1	3079 tags=27%, list=19%, signal=33%	0.312034	1.04412	0.363184	0.676021	1	2613 tags=22%, list=16%, signal=27%
GSE17721_PAM3CSK4_VS_GADIPQIN	176	0.266062	0.884697	0.754902	0.879131	1	2827 tags=20%, list=18%, signal=24%	0.30245	1.02847	0.395109	0.699848	1	3002 tags=27%, list=19%, signal=33%
GSE29618_LIAV_VS_TIV_FLU_VACCIN	167	0.267797	0.884535	0.754279	0.879132	1	2332 tags=17%, list=15%, signal=19%	0.247325	0.834989	0.861423	0.919519	1	3653 tags=28%, list=23%, signal=35%
GSE13411_NAIVE_VS_MEMORY_BCEI	173	0.265778	0.883934	0.746617	0.880339	1	3551 tags=29%, list=22%, signal=37%	0.406544	1.36481	0.00862069	0.223141	1	3507 tags=40%, list=22%, signal=50%
GSE18148_CFBF_KO_VS_WT_TREG_G	178	0.264477	0.883795	0.760241	0.880253	1	3567 tags=29%, list=22%, signal=24%	-0.248838	-0.960336	0.631868	0.748009	1	1707 tags=11%, list=11%, signal=12%
GSE39820_TGFBETA1_VS_TGFBETAT3	173	0.26231	0.883606	0.779661	0.880324	1	4103 tags=34%, list=26%, signal=45%	-0.256239	-1.00113	0.394872	0.654545	1	2488 tags=28%, list=15%, signal=32%
GSE22886_TCELL_VS_BCELL_NAIVE_L	171	0.266143	0.883552	0.76319	0.880032	1	3685 tags=30%, list=23%, signal=39%	0.306402	1.03025	0.388191	0.699341	1	2988 tags=33%, list=19%, signal=40%
GSE26495_PDHIGH_VS_PDLOW_CI	137	0.270889	0.883124	0.749383	0.880766	1	2045 tags=19%, list=13%, signal=22%	0.354464	1.18134	0.134465	0.44879	1	3885 tags=36%, list=24%, signal=47%
GSE1460_DP_VS_CD4_THYMOCYTE_L	170	0.265198	0.88304	0.750627	0.880555	1	2686 tags=20%, list=17%, signal=24%	-0.272151	-1.04644	0.30622	0.590829	1	2010 tags=22%, list=13%, signal=25%
GSE17580_UNINFECTED_VS_S_MANS	175	0.265391	0.882659	0.750916	0.881124	1	3164 tags=25%, list=20%, signal=31%	0.302929	1.0448	0.362854	0.674609	1	1847 tags=19%, list=12%, signal=21%
GSE7764_IL15_NK_CELL_24H_VS_SPL	176	0.265917	0.882356	0.752158	0.881495	1	3301 tags=27%, list=21%, signal=34%	-0.283581	-1.077	0.238318	0.539376	1	3261 tags=38%, list=20%, signal=47%
GSE360_L_DONOVANI_VS_L_MAJOR	180	0.266375	0.882261	0.762712	0.881309	1	3129 tags=19%, list=19%, signal=23%	-0.249823	-0.958662	0.617021	0.748731	1	1857 tags=15%, list=12%, signal=17%
GSE20715_WT_VS_TLR4_KO_48H_OZ	174	0.264765	0.881753	0.756303	0.882215	1	3237 tags=23%, list=20%, signal=28%	0.264644	1.08672	0.738402	0.872748	1	2839 tags=22%, list=18%, signal=26%
INTERACTION_WITH_HOST	15	0.404182	0.881269	0.638387	0.883076	1	1896 tags=27%, list=12%, signal=30%	-0.363403	-0.896827	0.561576	0.876916	1	3966 tags=27%, list=25%, signal=35%
GSE360_L_DONOVANI_VS_M_TUBER	182	0.26518	0.880784	0.764347	0.88339	1	3046 tags=23%, list=19%, signal=28%	0.373706	1.26169	0.047561	0.341457	1	2658 tags=30%, list=17%, signal=36%
GSE24142_DN2_VS_DN3_THYMOCYT	184	0.26018	0.880707	0.765281	0.883679	1	3925 tags=34%, list=24%, signal=44%	0.26001	0.875014	0.789003	0.889065	1	2972 tags=23%, list=19%, signal=28%
GSE27786_LIN_NEG_VS_CD4_TCELL_I	177	0.263961	0.880449	0.768585	0.883931	1	3029 tags=25%, list=19%, signal=31%	0.343948	1.15888	0.134568	0.483109	1	3203 tags=29%, list=20%, signal=36%
STEROID_BINDING	17	0.377261	0.880424	0.649502	0.883571	1	4505 tags=41%, list=28%, signal=57%	-0.603146	-1.49463	0.0621891	0.311608	1	510 tags=18%, list=3%, signal=18%
ENDOPEPTIDASE_ACTIVITY	100	0.281937	0.880273	0.719577	0.883529	1	2224 tags=16%, list=14%, signal=18%	0.310966	0.99151	0.460645	0.750807	1	3848 tags=25%, list=24%, signal=33%
GSE3982_EOSINOPHIL_VS_NEUTROPH	171	0.265926	0.880204	0.751513	0.883186	1	3400 tags=27%, list=21%, signal=34%	-0.273124	-1.06279	0.226131	0.56551	1	2667 tags=26%, list=17%, signal=31%
GSE7460_CTRL_VS_TGFb_TREATED_A	183	0.265034	0.879984	0.762136	0.88366	1	2549 tags=20%, list=16%, signal=23%	0.337462	1.15157	0.171216	0.491938	1	3491 tags=28%, list=22%, signal=36%
GSE14769_UNSTIM_VS_40MIN_LPS_I	168	0.263739	0.879797	0.753035	0.883875	1	3220 tags=20%, list=20%, signal=25%	-0.262816	-1.02224	0.375	0.625522	1	2913 tags=26%, list=18%, signal=31%
GSE9988_ANTI_TREM1_VS_VEHICLE	169	0.266518	0.879211	0.761084	0.884625	1	3069 tags=31%, list=19%, signal=38%	0.303484	1.01443	0.428571	0.722295	1	3130 tags=33%, list=19%, signal=40%
INNATE_IMMUNE_RESPONSE	17	0.381861	0.879158	0.640777	0.883424	1	2502 tags=29%, list=16%, signal=35%	-0.313768	-0.826447	0.720812	0.976272	1	3547 tags=29%, list=22%, signal=38%
GSE27786_BCELL_VS_NEUTROPHIL_U	177	0.264217	0.878344	0.762022	0.880603	1	2591 tags=24%, list=16%, signal=28%	0.307455	1.03524	0.377525	0.691032	1	3093 tags=29%, list=19%, signal=36%
GSE17974_2H_VS_72H_UNTREATED_M	170	0.264382	0.877938	0.753133	0.886729	1	2365 tags=20%, list=15%, signal=23%	-0.250806	-0.965542	0.569231	0.735963	1	2305 tags=27%, list=14%, signal=31%
MEIOTIC_RECOMBINATION	17	0.379708	0.877783	0.655608	0.886702	1	1077 tags=18%, list=7%, signal=19%	-0.310267	-0.768308	0.811558	0.995347	1	842 tags=18%, list=5%, signal=19%
GSE27786_LIN_NEG_VS_BCELL_UP	178	0.263638	0.877343	0.753027	0.887445	1	1569 tags=12%, list=10%, signal=14%	0.309618	1.04356	0.338272	0.677606	1	2457 tags=20%, list=15%, signal=24%
OUTER_MEMBRANE	22	0.259877	0.877325	0.651888	0.887055	1	3469 tags=36%, list=22%, signal=46%	0.384328	1.027274	0.589257	0.816473	1	3506 tags=41%, list=22%, signal=52%
ZINC_ION_BINDING	74	0.291402	0.876862	0.704167	0.887907	1	3000 tags=20%, list=19%, signal=25%	0.296192	0.89949	0.669399	0.856388	1	2047 tags=16%, list=13%, signal=19%
CELLULAR BIOSYNTHETIC_PROCESS	296	0.252853	0.875943	0.825056	0.889942	1	2505 tags=17%, list=16%, signal=20%	-0.29721	-1.20843	0.025	0.420948	1	1893 tags=22%, list=12%, signal=24%
GSE10325_CD4_TCELL_VS_MYEOID	171	0.263059	0.875523	0.779337	0.880569	1	2509 tags=21%, list=16%, signal=25%	0.289524	1.073722	0.5264642	0.770476	1	2626 tags=24%, list=16%, signal=28%
AUXILIARY_TRANSPORT_PROTEIN_AC	24	0.356815	0.875484	0.652648	0.890228	1	2499 tags=21%, list=16%, signal=25%	0.443496	1.09186	0.338633	0.578716	1	4103 tags=25%, list=26%, signal=34%
GSE18148_CFBF_KO_VS_WT_TREG_L	167	0.265979	0.874881	0.758364	0.891333	1	1299 tags=10%, list=8%, signal=10%	0.296305	0.993001	0.47096	0.749798	1	2890 tags=19%, list=18%, signal=23%
GSE14308_TH2_VS_INDUCED_TREG_I	174	0.259663	0.873836	0.801714	0.893572	1	3533 tags=27%, list=22%, signal=34%	0.324784	1.07976	0.293532	0.602664	1	3474 tags=32%, list=22%, signal=40%
ADENYL_RIBONUCLEOTIDE_BINDING	152	0.268151	0.873284	0.784731	0.894555	1	3609 tags=30%, list=22%, signal=38%	-0.302148	-1.1362	0.120536	0.467996	1	1971 tags=24%, list=12%, signal=27%
GSE18791_UNSTIM_VS_NEWCATSLE	165	0.262177	0.872751	0.770631	0.895528	1	1913 tags=19%, list=12%, signal=21%	0.309094	1.03242	0.393631	0.694506	1	3770 tags=38%, list=23%, signal=49%
GSE14769_40													

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

ECTODERM_DEVELOPMENT	68	0.292739	0.866187	0.705964	0.901997	1	4884 tags=28%, list=30%, signal=40%	0.548339	1.64333	0.00142045	0.0678178	0.912	3410 tags=19%, list=21%, signal=24%
GSE1360_T_GONDII_VS_B_MALAYI_HI	176	0.260548	0.865697	0.813559	0.902803	1	2919 tags=24%, list=18%, signal=29%	0.341591	1.15122	0.144242	0.491935	1	3196 tags=28%, list=20%, signal=35%
GSE17721_PAM3CSK4_VS_CPG_2H_B	167	0.261745	0.865453	0.806098	0.902958	1	2084 tags=14%, list=13%, signal=16%	0.286262	0.963285	0.548628	0.773491	1	3537 tags=25%, list=22%, signal=32%
GSE9650_EFFECTOR_VS_MEMORY_CI	182	0.258978	0.865016	0.804136	0.903637	1	2988 tags=25%, list=19%, signal=31%	0.409747	-1.57723	0	0.284964	0.984	2310 tags=36%, list=14%, signal=41%
ORGANIC_ACID_METABOLIC_PROCES	168	0.258976	0.864547	0.802616	0.904411	1	2594 tags=18%, list=16%, signal=22%	0.345535	1.15624	0.151088	0.486597	1	2548 tags=23%, list=16%, signal=27%
GSE11974_I4_ANC_ANTI_I1L2_VS_U	139	0.265261	0.864282	0.800253	0.904645	1	1417 tags=10%, list=9%, signal=11%	0.355671	1.16813	0.148090	0.467904	1	3399 tags=25%, list=21%, signal=32%
GSE360_L_MAJOR_VS_T_GONDII_MA	174	0.259393	0.86345	0.826297	0.90629	1	3109 tags=21%, list=19%, signal=25%	0.312296	1.04334	0.364312	0.677833	1	3380 tags=22%, list=21%, signal=27%
PURINE_RIBONUCLEOTIDE_METABOLISM	190	0.257855	0.86344	0.781137	0.905878	1	3458 tags=26%, list=22%, signal=33%	-0.270603	-1.06739	0.235955	0.554804	1	1971 tags=22%, list=12%, signal=25%
GSE17721_PAM3CSK4_VS_GADICQUIN	185	0.259339	0.863152	0.822329	0.906161	1	2783 tags=24%, list=17%, signal=28%	0.290429	0.988293	0.510612	0.75377	1	3642 tags=33%, list=23%, signal=42%
GSE11974_I4_ANC_ANTI_I1L2_VS_U	144	0.265596	0.862672	0.8	0.906887	1	2990 tags=20%, list=19%, signal=25%	-0.307146	-1.16389	0.0789474	0.465574	1	2349 tags=19%, list=15%, signal=22%
GSE13306_TREG_RA_VS_TCONV_RN	167	0.259678	0.861844	0.797281	0.90855	1	3666 tags=29%, list=23%, signal=38%	-0.240308	-0.925206	0.716216	0.81004	1	2881 tags=24%, list=18%, signal=29%
GSE14350_TRE_VS_TEFF_IN_IL2RB	175	0.257387	0.861537	0.808511	0.908864	1	2667 tags=23%, list=17%, signal=28%	-0.334326	-1.28279	0.0165746	0.351825	1	2669 tags=33%, list=17%, signal=39%
GSE22886_IGM_MEMORY_CELL_VS	177	0.255952	0.861421	0.816425	0.90871	1	2620 tags=20%, list=16%, signal=23%	-0.371423	-1.42451	0	0.30231	1	2555 tags=33%, list=16%, signal=39%
ACTIVATION_OF_PROTEIN_KINASE_A	25	0.343174	0.86081	0.672868	0.909822	1	4057 tags=40%, list=25%, signal=53%	-0.445929	-1.23919	0.144022	0.384299	1	1301 tags=24%, list=8%, signal=26%
GSE17721_CTRL_VS_LPS_0.5H_BMDM	177	0.255787	0.860657	0.839109	0.90976	1	1796 tags=12%, list=11%, signal=14%	0.304146	1.02785	0.400718	0.700486	1	3357 tags=26%, list=21%, signal=32%
RNA_POLYMERASE_II_TRANSCRIPTION	161	0.260751	0.860432	0.797516	0.909881	1	3374 tags=20%, list=21%, signal=26%	0.269946	0.90432	0.704434	0.848717	1	3943 tags=27%, list=25%, signal=35%
GSE339_EX_VIVO_VS_IN_CULTURE_C	178	0.257498	0.860019	0.813926	0.910458	1	3425 tags=26%, list=21%, signal=33%	0.300544	1.02055	0.409653	0.709556	1	2528 tags=23%, list=16%, signal=27%
GSE27786_LSK_VS_NKTCCELL_DN	175	0.257934	0.859834	0.810615	0.910407	1	3774 tags=27%, list=24%, signal=35%	-0.324896	-1.25319	0.0159574	0.370349	1	2563 tags=30%, list=16%, signal=36%
GSE18791_CTRL_VS_NECASTLE_VIR	174	0.257497	0.859669	0.810309	0.910445	1	3224 tags=25%, list=20%, signal=31%	0.285585	0.963929	0.557908	0.773915	1	3186 tags=27%, list=20%, signal=33%
GSE7460_CTRL_VS_FOXP3_OVEREXP	177	0.25941	0.859575	0.809988	0.910237	1	3016 tags=23%, list=19%, signal=28%	0.263512	0.888765	0.767038	0.871434	1	3235 tags=23%, list=20%, signal=28%
GSE17721_0.5H_VS_4H_PAM3CSK4_I	174	0.259317	0.858595	0.813869	0.912153	1	2943 tags=24%, list=18%, signal=29%	0.337293	1.13961	0.169154	0.510835	1	4091 tags=41%, list=25%, signal=54%
AMINO_ACID_AND_DERIVATIVE_MET	91	0.27561	0.85819	0.759259	0.912716	1	2594 tags=21%, list=16%, signal=25%	0.322056	1.01013	0.414966	0.727773	1	3835 tags=31%, list=24%, signal=40%
POSITIVE_REGULATION_OF_TRANSCR	136	0.264248	0.857913	0.808696	0.912976	1	3374 tags=29%, list=21%, signal=36%	-0.300976	-1.14141	0.195238	0.498412	1	2154 tags=24%, list=13%, signal=27%
PROTEIN_KINASE_ACTIVITY	259	0.250413	0.857905	0.823737	0.912558	1	3458 tags=27%, list=22%, signal=33%	-0.28932	-1.1608	0.068323	0.463058	1	1971 tags=21%, list=12%, signal=24%
GSE17721_CPG_VS_GARDIQUIMOD_C	178	0.260316	0.857654	0.808537	0.912703	1	2648 tags=19%, list=16%, signal=22%	0.238657	0.80266	0.918317	0.953611	1	3335 tags=21%, list=21%, signal=27%
RECEPTOR_SIGNALING_PROTEIN_ACT	74	0.284615	0.857302	0.752407	0.913116	1	2218 tags=23%, list=19%, signal=27%	0.274733	0.840901	0.794326	0.914421	1	2180 tags=20%, list=14%, signal=23%
GSE9037_CTRL_VS_LPS_4H_STIM_IRA	181	0.256185	0.857072	0.820452	0.913243	1	2579 tags=20%, list=16%, signal=23%	-0.333251	-1.2932	0.0148515	0.344081	1	2676 tags=29%, list=17%, signal=35%
GSE27786_LIN_NEG_VS_CD4_TCELL_I	173	0.257221	0.857053	0.809002	0.912865	1	3156 tags=21%, list=20%, signal=26%	-0.276267	-1.05938	0.235294	0.574807	1	2782 tags=28%, list=17%, signal=33%
ENVELOPE	152	0.258909	0.856828	0.78625	0.912974	1	3277 tags=25%, list=20%, signal=31%	0.402848	1.34512	0.0178117	0.246696	1	3297 tags=34%, list=21%, signal=42%
NUCLEOTIDE_BINDING	209	0.255333	0.856685	0.843387	0.912897	1	3458 tags=26%, list=22%, signal=33%	0.256014	0.878997	0.77027	0.882983	1	3505 tags=30%, list=22%, signal=38%
TRANSCRIPTION_COACTIVATOR_ACTI	112	0.269136	0.856529	0.74934	0.912838	1	2138 tags=15%, list=13%, signal=17%	-0.293066	-1.05567	0.315789	0.577459	1	3021 tags=27%, list=19%, signal=33%
HEART_DEVELOPMENT	34	0.323776	0.855572	0.709231	0.914326	1	1144 tags=9%, list=7%, signal=9%	0.311478	0.835134	0.752396	0.919688	1	3097 tags=21%, list=19%, signal=25%
AMINO_ACID_TRANSPORT	26	0.342738	0.855655	0.701538	0.91405	1	2634 tags=19%, list=16%, signal=23%	0.278862	0.69864	0.932177	0.994493	1	3813 tags=31%, list=24%, signal=40%
GSE17721_LPS_POLYIC_8H_BMDM	173	0.258562	0.855582	0.82503	0.913802	1	2189 tags=17%, list=14%, signal=20%	0.269302	0.91508	0.655758	0.832654	1	3000 tags=26%, list=19%, signal=31%
GSE17721_POLYIC_VS_PAM3CSK4_12	180	0.258659	0.855223	0.833953	0.914142	1	2687 tags=21%, list=17%, signal=25%	0.305878	1.03949	0.379699	0.68296	1	2864 tags=28%, list=18%, signal=34%
EXTRACELLULAR_LIGAND_GATED_ION	21	0.358664	0.855175	0.683043	0.913881	1	4049 tags=19%, list=15%, signal=25%	0.292265	0.708411	0.877049	0.994747	1	181 tags=5%, list=1%, signal=5%
GSE6269_STREP_AUREUS_VS_STREP_VS	153	0.255908	0.854957	0.809642	0.913965	1	3598 tags=28%, list=22%, signal=36%	0.333748	1.11752	0.215124	0.542024	1	3251 tags=27%, list=20%, signal=34%
GSE24634_IL4_VS_CTRL_TREATED_NU	181	0.25978	0.854497	0.817618	0.914667	1	3372 tags=28%, list=21%, signal=35%	0.313119	1.06447	0.303594	0.635521	1	2878 tags=27%, list=18%, signal=33%
GSE10463_CD40L_ANC_VA347_VS_C	134	0.262757	0.854457	0.803504	0.914331	1	1783 tags=10%, list=11%, signal=11%	0.293475	0.965668	0.535576	0.774182	1	4493 tags=30%, list=28%, signal=41%
GSE5960_TH1_VS_ANERGIC_TH1_UP	180	0.255566	0.854445	0.82704	0.91393	1	3679 tags=27%, list=23%, signal=35%	0.234181	0.790918	0.944931	0.963753	1	3172 tags=22%, list=20%, signal=27%
GSE17721_CTRL_VS_GARDIQUIMOD	181	0.256607	0.85416	0.803946	0.914205	1	3034 tags=20%, list=19%, signal=25%	0.301776	1.02028	0.432298	0.708299	1	3596 tags=32%, list=22%, signal=41%
LYSOSOME	54	0.259947	0.854034	0.741848	0.914065	1	4571 tags=44%, list=28%, signal=62%	0.528984	1.53819	0.0089153	0.109548	1	3118 tags=41%, list=19%, signal=50%
GSE13485_DAY1_VS_DAY3_YF17D_VI	171	0.257738	0.852926	0.816936	0.916304	1	3857 tags=34%, list=24%, signal=44%	-0.280592	-1.0913	0.160976	0.532907	1	3042 tags=33%, list=19%, signal=40%
GSE29618_PRE_DAY7_POST_TIV	167	0.258885	0.852913	0.819632	0.915905	1	2246 tags=14%, list=14%, signal=17%	0.311897	1.05179	0.339088	0.659461	1	4259 tags=32%, list=27%, signal=43%
RESPONSE_TO_OXIDATIVE_STRESS	41	0.315026	0.852807	0.74175	0.915723	1	3064 tags=24%, list=19%, signal=30%	0.260234	0.721005	0.991752	0.3549	1	3549 tags=29%, list=22%, signal=37%
GSE6269_FLU_VS_E_COLI_INF_PBM	145	0.26124	0.852753	0.812655	0.915418	1	4305 tags=39%, list=27%, signal=52%	0.351409	1.1675	0.139386	0.46826	1	3341 tags=34%, list=21%, signal=43%
GSE24634_TREG_VS_TCONV_POST_D	187	0.254545	0.851978	0.80782	0.916808	1	3509 tags=28%, list=22%, signal=36%	0.475957	1.61476	0	0.0673161	0.976	3238 tags=41%, list=20%, signal=50%
GSE14308_INDUCED_VS_NATURAL_T	179	0.254365	0.851492	0.815256	0.917533	1	3426 tags=23%, list=21%, signal=29%	0.313935	1.12188	0.215442	0.534415	1	2928 tags=25%, list=18%, signal=30%
PROTEIN_SERINE_THREONINE_KINAS	185	0.256795	0.851136	0.841478	0.917962	1	3738 tags=30%, list=23%, signal=38%	-0.296771	-1.12702	0.112299	0.482975	1	1971 tags=25%, list=12%, signal=28%
NUCLEAR_CHROMOSOME_PART	31	0.324379	0.850325	0.722309	0.919446	1	4056 tags=39%, list=25%, signal=52%	0.358533	1.04597	0.392801	0.672913	1	2666 tags=35%, list=17%, signal=42%
GSE29618_PRE_DAY7_POST_TIV	163	0.257185	0.850202	0.83867	0.919304	1	3940 tags=23%, list=25%, signal=30%	0.350098	1.1703	0.121951	0.46521	1	4031 tags=28%, list=25%, signal=36%
GSE36392_TYPE1_MYELOID_VS_EOS	175	0.258235	0.850167	0.81477	0.91895	1	2452 tags=21%, list=15%, signal=25%	0.28997	0.973804	0.535581	0.770711	1	2884 tags=24%, list=18%, signal=29%
GSE22886_UNSTIM_VS_I15_STIM_N	157	0.257841	0.849982	0.807789	0.919187	1	3393 tags=23%, list=21%, signal=29%	0.27333	0.910834	0.682161	0.840388	1	1700 tags=15%, list=11%, signal=17%
GSE29618_PRE_VS_DAY7_FLU_VACC	170	0.255803	0.84946	0.823245	0.919734	1	3260 tags=21%, list=20%, signal=26%	0.370567	1.24334	0.0633374	0.369306	1	2392 tags=19%, list=15%, signal=23%
GSE5463_CTRL_VS_DEMETHASONE	183	0.255632	0.849287	0.832328	0.919719	1	3883 tags=32%, list=24%, signal=42%	0.30984	1.04967	0.341523	0.664021	1	2936 tags=28%, list=18%, signal=34%
GSE28237_FOLLICULAR_VS_LATE_GC	171	0.256715	0.849084	0.843284	0.919747	1	4294 tags=32%, list=27%, signal=43%	-0.287844	-1.10552	0.163265	0.518344	1	3118 tags=27%, list=19%, signal=33%
PROTEIN_C_TERMINUS_BINDING	70	0.283022	0.848322	0.767507	0.921129	1	3610 tags=30%, list=22%, signal=39%	0.315419	0.94736	0.561354	0.791977	1	3418 tags=31%, list=21%, signal=40%
ORGANELLE_ENVELOPE	152	0.258909	0.848204	0.8132									

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

TRANSLATION_INITIATION_FACTOR_/_	23	0.347015	0.843633	0.714286	0.9216	1	4768 tags=39%, list=30%, signal=56%	-0.256181	-0.681801	0.953079	0.990135	1	2693 tags=26%, list=17%, signal=31%
GSE20715_OH_VS_48H_OZONE_LUNG	181	0.25304	0.843527	0.85006	0.921396	1	2901 tags=25%, list=18%, signal=30%	0.295459	0.992553	0.490268	0.749814	1	3053 tags=27%, list=19%, signal=32%
SENSORY_PERCEPTION	168	0.255124	0.843192	0.846433	0.921714	1	3344 tags=17%, list=21%, signal=22%	-0.23394	-0.895385	0.825472	0.875937	1	3686 tags=21%, list=11%, signal=27%
GSE31082_VS_CDB_SP_THYMOCY	160	0.255124	0.84301	0.828183	0.921691	1	3424 tags=26%, list=21%, signal=33%	-0.297073	-1.13786	0.104712	0.47527	1	1698 tags=20%, list=11%, signal=22%
GSE16755_CTRL_VS_IFNA_TREATED_J	165	0.255752	0.842761	0.830049	0.921837	1	3181 tags=27%, list=20%, signal=34%	0.318849	1.07161	0.298507	0.621474	1	3542 tags=36%, list=22%, signal=45%
GSE27786_NKTCELL_VS_NEUTROPHIL	175	0.254156	0.841861	0.861423	0.923476	1	3233 tags=26%, list=20%, signal=32%	0.283135	0.962697	0.545925	0.722977	1	3209 tags=27%, list=20%, signal=33%
TRANSFERASE_ACTIVITY_TRANSFERRI	35	0.321578	0.84131	0.710102	0.924266	1	3551 tags=34%, list=22%, signal=44%	0.293255	0.780953	0.823263	0.968793	1	1984 tags=20%, list=12%, signal=23%
GSE12211_CTRL_VS_POLYIC2H_BML	178	0.2525079	0.840746	0.849633	0.9251	1	2045 tags=16%, list=13%, signal=18%	0.293531	0.99072	0.495575	0.749382	1	3302 tags=28%, list=21%, signal=35%
GSE9650_NAIVE_VS_MEMORY_CDB_	182	0.251773	0.840652	0.860494	0.924884	1	3132 tags=27%, list=20%, signal=33%	-0.280601	-1.08173	0.19598	0.541272	1	2086 tags=27%, list=13%, signal=31%
GSE3982_MAST_CELL_VS_NEUTROPH	176	0.253674	0.840269	0.854067	0.925324	1	3870 tags=30%, list=24%, signal=39%	-0.247487	-0.950273	0.611429	0.765901	1	2475 tags=23%, list=15%, signal=27%
ADENYLNUCLEOTIDE_BINDING	158	0.254529	0.840063	0.82801	0.925349	1	3609 tags=29%, list=22%, signal=37%	-0.303372	-1.15632	0.0591398	0.459434	1	2035 tags=25%, list=13%, signal=28%
CYTOKINE_AND_CHEMOKINE_MEDIA	17	0.371012	0.839815	0.688207	0.925486	1	2934 tags=35%, list=18%, signal=43%	0.379974	0.88127	0.6288	0.879861	1	2104 tags=35%, list=13%, signal=41%
AROMATIC_COMPOUND_METABOLIC	22	0.345579	0.839735	0.6944	0.925236	1	3676 tags=45%, list=23%, signal=59%	-0.425222	-1.08917	0.310249	0.534529	1	3150 tags=41%, list=20%, signal=51%
GSE22886_IIGG_IGA_MEMORY_BCELL	178	0.252352	0.839358	0.858017	0.925642	1	4010 tags=34%, list=25%, signal=45%	-0.357692	-1.36769	0.011732	0.314319	1	3286 tags=42%, list=20%, signal=52%
GSE17721_CTRL_VS_CPG_24H_BMDN	180	0.252004	0.838996	0.857491	0.926018	1	3172 tags=22%, list=20%, signal=27%	0.304529	1.03647	0.362757	0.688615	1	3376 tags=27%, list=21%, signal=34%
GSE14026_TH1_VS_TH17_UP	170	0.253157	0.838705	0.854015	0.926232	1	3180 tags=19%, list=20%, signal=24%	0.274973	0.917099	0.687186	0.833414	1	3356 tags=20%, list=21%, signal=25%
GSE31082_VS_CPD_SP_THYMOCY	170	0.255067	0.838458	0.856429	0.926367	1	3621 tags=29%, list=23%, signal=38%	-0.258034	-0.971522	0.532258	0.719094	1	2087 tags=24%, list=13%, signal=27%
GSE26669_CD4_VS_CDB_TCELL_IN_N	174	0.251556	0.837745	0.865155	0.927495	1	3044 tags=23%, list=19%, signal=28%	0.324621	1.09133	0.249694	0.580108	1	2986 tags=25%, list=19%, signal=31%
CARBOHYDRATE BIOSYNTHETIC_PRO	46	0.29987	0.837041	0.771429	0.928628	1	3458 tags=28%, list=22%, signal=36%	0.314643	0.972879	0.505731	0.771825	1	2901 tags=26%, list=18%, signal=32%
GSE29614_CTRL_VS_DAY3_TIV_FLU	125	0.26012	0.836892	0.840967	0.928539	1	2052 tags=10%, list=13%, signal=11%	0.373224	1.21801	0.105978	0.407307	1	3899 tags=18%, list=24%, signal=23%
GSE11924_TFH_VS_TH17_CD4_TCELL	177	0.25223	0.836705	0.852078	0.928555	1	2297 tags=17%, list=14%, signal=20%	0.288709	0.985129	0.499379	0.750712	1	3078 tags=25%, list=19%, signal=30%
NEGATIVE_REGULATION_OF_NUCLEO	188	0.25082	0.836414	0.862745	0.928729	1	2838 tags=21%, list=18%, signal=25%	0.302139	1.02338	0.417476	0.704487	1	2684 tags=22%, list=17%, signal=26%
GSE32423_CTRL_VS_IL4_MEMORY_CI	171	0.252413	0.836333	0.853234	0.928493	1	3408 tags=25%, list=21%, signal=32%	0.387688	1.31857	0.0335821	0.269744	1	3968 tags=36%, list=25%, signal=48%
GSE17721_12H_VS_24H_PAM3CSK4_I	174	0.252174	0.835957	0.873918	0.928868	1	2631 tags=21%, list=16%, signal=24%	0.267362	0.898443	0.720643	0.857887	1	1856 tags=17%, list=12%, signal=19%
GSE14308_NAIVE_CD4_TCELL_VS_INI	179	0.251697	0.835911	0.87053	0.928547	1	2695 tags=21%, list=17%, signal=25%	0.282216	0.950441	0.580846	0.786499	1	3535 tags=28%, list=22%, signal=36%
MEIOSIS_I	18	0.35924	0.835662	0.6976	0.928628	1	1077 tags=17%, list=7%, signal=18%	0.323354	0.758303	0.83871	0.979569	1	2571 tags=33%, list=16%, signal=40%
PATTERN_SPECIFICATION_PROCESS	30	0.327524	0.835364	0.708207	0.928841	1	3422 tags=23%, list=21%, signal=30%	0.29875	0.766661	0.830189	0.973967	1	3335 tags=17%, list=21%, signal=21%
MICROTUBULE_ORGANIZING_CENTE	15	0.374213	0.835357	0.703259	0.928483	1	170 tags=13%, list=1%, signal=13%	0.432633	0.979759	0.488333	0.763246	1	2275 tags=33%, list=14%, signal=39%
GSE17721_ALL_VS_24H_PAM3CSK4_I	172	0.24991	0.834764	0.848781	0.929313	1	3315 tags=27%, list=21%, signal=33%	0.332076	1.11801	0.215422	0.541273	1	2631 tags=26%, list=16%, signal=30%
GSE1460_DP_THYMOCYTE_VS_NAIVE	172	0.251519	0.834355	0.875769	0.929357	1	3970 tags=26%, list=25%, signal=34%	0.259562	0.878089	0.796203	0.884397	1	2780 tags=18%, list=17%, signal=22%
GSE29615_CTRL_VS_DAY7_LAIV_FLU	128	0.260318	0.833894	0.844444	0.930294	1	2884 tags=16%, list=18%, signal=20%	0.271078	0.880673	0.752972	0.880479	1	4731 tags=32%, list=29%, signal=45%
VACUOLE	61	0.285273	0.833886	0.779167	0.929886	1	4571 tags=43%, list=28%, signal=59%	0.489227	1.45356	0.0262431	0.149553	1	3118 tags=38%, list=19%, signal=47%
GSE1460_CD4_THYMOCYTE_VS_NAIV	161	0.253552	0.833666	0.859951	0.929899	1	3814 tags=27%, list=24%, signal=35%	0.287287	0.963197	0.54798	0.773296	1	3385 tags=25%, list=21%, signal=31%
GSE17721_CTRL_VS_PAM3CSK4_1H_I	173	0.248701	0.833484	0.886473	0.929872	1	3773 tags=25%, list=24%, signal=32%	-0.246629	-0.949938	0.671875	0.764645	1	3019 tags=24%, list=19%, signal=29%
PURINE_NUCLEOTIDE_BINDING	196	0.247701	0.833341	0.888087	0.929629	1	3458 tags=26%, list=22%, signal=33%	-0.272043	-1.04811	0.307263	0.589729	1	2035 tags=22%, list=13%, signal=25%
GSE37416_OH_VS_24H_F_TULARENSI	169	0.251555	0.833317	0.858374	0.929396	1	3341 tags=27%, list=21%, signal=34%	-0.317771	-1.21813	0.0283019	0.406783	1	2977 tags=33%, list=19%, signal=40%
INTEGRIN_COMPLEX	18	0.361601	0.832276	0.737374	0.931221	1	2684 tags=33%, list=17%, signal=40%	0.58701	1.34947	0.092233	0.240469	1	3182 tags=39%, list=20%, signal=48%
GSE17721_0.5H_VS_8H_POLYC_BMC	182	0.249296	0.832018	0.876663	0.931301	1	2289 tags=15%, list=14%, signal=17%	0.295044	1.00009	0.472888	0.740766	1	2686 tags=25%, list=17%, signal=30%
GOLGI_VESICLE_TRANSPORT	47	0.295859	0.831755	0.748872	0.931437	1	2369 tags=23%, list=15%, signal=27%	0.345798	0.979166	0.473134	0.763791	1	3594 tags=38%, list=22%, signal=49%
GSE39802_TGFbeta3_IL6_VS_TGFBE1	177	0.251064	0.831291	0.874704	0.932005	1	1922 tags=12%, list=12%, signal=14%	0.331473	1.11556	0.229448	0.542799	1	3406 tags=27%, list=21%, signal=33%
EXTRACELLULAR_REGION_PART	290	0.238125	0.830331	0.915813	0.933596	1	2187 tags=10%, list=14%, signal=12%	0.250564	0.880836	0.807078	0.880506	1	2891 tags=13%, list=18%, signal=15%
GLYCOSAMINOGLYCAN_BINDING	30	0.236665	0.829871	0.733333	0.934128	1	1019 tags=13%, list=6%, signal=14%	-0.367872	-1.0434	0.376045	0.594642	1	3481 tags=30%, list=22%, signal=38%
GSE14769_UNSTIM_VS_20MIN_LPS_I	180	0.249203	0.829603	0.876351	0.934246	1	3218 tags=25%, list=20%, signal=31%	0.249724	0.844283	0.854015	0.912027	1	2610 tags=17%, list=16%, signal=20%
GSE29617_CTRL_VS_DAY3_TIV_FLU	174	0.250625	0.829499	0.858537	0.930401	1	3581 tags=25%, list=22%, signal=32%	-0.257361	-0.97957	0.508571	0.701153	1	3358 tags=34%, list=21%, signal=42%
GSE1460_DP_THYMOCYTE_VS_THYM	162	0.252126	0.829163	0.867999	0.934326	1	2053 tags=17%, list=13%, signal=20%	-0.2734	-1.04041	0.338624	0.603114	1	3281 tags=31%, list=20%, signal=39%
GSE6566_STRONG_VS_WEAK_DC_STI	153	0.253131	0.828919	0.889425	0.934425	1	2699 tags=22%, list=17%, signal=26%	0.338341	1.12519	0.204056	0.536304	1	2130 tags=22%, list=13%, signal=25%
GSE10325_CELL_VS_MYEOLOID_UP	160	0.251015	0.828897	0.863861	0.934043	1	2472 tags=21%, list=15%, signal=25%	0.389849	1.30984	0.0332512	0.274865	1	2404 tags=29%, list=15%, signal=33%
GSE15930_STIM_VS_STIM_AND_TRIC	179	0.250522	0.828839	0.857494	0.933741	1	3945 tags=35%, list=25%, signal=45%	0.363369	1.22879	0.0625782	0.386799	1	4113 tags=41%, list=26%, signal=55%
GSE15659_CD45RA_NEG_CD4_TCELL	150	0.255818	0.828819	0.864259	0.933358	1	3006 tags=18%, list=19%, signal=22%	0.234005	0.774497	0.96534	0.972381	1	3196 tags=17%, list=20%, signal=21%
TRANSFERASE_ACTIVITY_TRANSFERRI	45	0.299211	0.828498	0.757143	0.933618	1	3301 tags=27%, list=21%, signal=33%	0.245857	0.688095	0.955752	0.994428	1	2629 tags=20%, list=16%, signal=24%
GSE15930_STIM_VS_STIM_AND_IFNA	170	0.250408	0.828422	0.869347	0.933348	1	3379 tags=21%, list=21%, signal=27%	0.324798	1.09088	0.271062	0.581261	1	3086 tags=21%, list=19%, signal=25%
GSE14308_TH2_VS_NATURAL_TREG	174	0.249479	0.827636	0.889435	0.93456	1	2675 tags=21%, list=17%, signal=25%	-0.292631	-1.12549	0.125604	0.484992	1	2858 tags=29%, list=18%, signal=35%
GSE3982_CTRL_VS_IGE_STIM_MAST_	168	0.253791	0.827355	0.868516	0.934677	1	3376 tags=26%, list=21%, signal=32%	-0.312053	-1.20142	0.038835	0.428035	1	2833 tags=32%, list=18%, signal=38%
EMBRYONIC_MORPHOGENESIS	15	0.374274	0.826528	0.724876	0.93601	1	2502 tags=20%, list=16%, signal=24%	0.620703	1.38041	0.0883797	0.205403	1	1868 tags=27%, list=12%, signal=30%
KINASE_INHIBITOR_ACTIVITY	23	0.339138	0.826354	0.72524	0.935941	1	1781 tags=22%, list=11%, signal=24%	0.357601	0.892649	0.611382	0.866363	1	3563 tags=30%, list=22%, signal=39%
GSE3982_CTRL_VS_NEUTROPHIL_UP	177	0.248279	0.826328	0.89312	0.935569	1	2456 tags=19%, list=15%, signal=22%	0.324823	1.12041	0.1925	0.535261	1	2506 tags=26%, list=16%, signal=30%
GSE3982_NEUTROPHIL_VS_TH1_UP	167	0.248592	0.825913	0.885468	0.935964	1	3632 tags=25%, list=23%, signal=32%	0.314825	1.06023	0.335006	0.643655	1	2976 tags=24%, list=19%, signal=29%
GSE14000_TRANSLATED_RNA_VS_MF	184	0.246917	0.8250										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

CONDENSED_CHROMOSOME	28	0.323506	0.816521	0.748865	0.944117	1	4131 tags=50%, list=26%, signal=67%	0.34027	0.866273	0.651968	0.895318	1	2571 tags=29%, list=16%, signal=34%
GSE17721_LPS_VS_CPG_16H_BMDM	179	0.245139	0.816167	0.910319	0.944344	1	2414 tags=18%, list=15%, signal=21%	0.281393	0.943174	0.622688	0.79752	1	2839 tags=22%, list=18%, signal=26%
GSE17721_LPS_VS_PAM3CSK4_24H_i	182	0.244542	0.816017	0.892252	0.944211	1	3387 tags=26%, list=21%, signal=32%	0.269391	0.9069	0.715762	0.844173	1	3445 tags=29%, list=21%, signal=37%
ACTIVATION_OF_JNK_ACTIVITY	16	0.364406	0.815694	0.722741	0.944397	1	1456 tags=19%, list=9%, signal=21%	-0.397603	-0.97543	0.48564	0.709936	1	3046 tags=50%, list=19%, signal=62%
GSE27786_CD4_TCELL_VS_NEUTROPI	170	0.248253	0.815658	0.881101	0.940436	1	2706 tags=21%, list=17%, signal=25%	0.260086	0.871979	0.794677	0.89115	1	3306 tags=28%, list=21%, signal=35%
GSE360_L_MAJOR_VS_M_TUBERCUL	168	0.247052	0.815361	0.901561	0.944176	1	3914 tags=24%, list=24%, signal=35%	0.356622	1.197	0.101911	0.432231	1	3242 tags=30%, list=20%, signal=38%
FEMALE_GAMETE_GENERATION	17	0.363508	0.814613	0.720395	0.945158	1	4984 tags=29%, list=31%, signal=43%	-0.629266	-1.52675	0.0419947	0.321312	0.998	1511 tags=18%, list=9%, signal=19%
GSE17721_CTRL_VS_PAM3CSK4_2H_i	166	0.246985	0.813663	0.904934	0.946502	1	2662 tags=15%, list=17%, signal=18%	0.31909	1.05984	0.301115	0.624201	1	4014 tags=30%, list=25%, signal=40%
GSE17974_I4_ANC_ANI_I1L2_VS_U	133	0.25145	0.81291	0.88	0.947492	1	898 tags=5%, list=6%, signal=6%	0.204278	0.673164	1	1887 tags=8%, list=12%, signal=8%		
GSE11864_CSF1_VS_CSF1_IFNG_IN_N	162	0.246491	0.812696	0.909756	0.947464	1	2329 tags=22%, list=15%, signal=25%	-0.250436	-0.948873	0.617347	0.766503	1	3592 tags=39%, list=22%, signal=50%
TRANSFERASE_ACTIVITY_TRANSFERRI	17	0.352717	0.812511	0.734277	0.9474	1	3432 tags=29%, list=21%, signal=37%	0.377911	0.864593	0.660883	0.89717	1	4038 tags=35%, list=25%, signal=47%
GSE11864_CSF1_VS_CSF1_PAM3CVS	163	0.246098	0.812272	0.887654	0.947425	1	2524 tags=21%, list=16%, signal=24%	-0.306936	-1.16913	0.0869565	0.456664	1	2173 tags=30%, list=14%, signal=34%
GSE13485_CTRL_VS_DAY7_YF17D_VA	179	0.243233	0.810906	0.908861	0.949534	1	2788 tags=22%, list=17%, signal=27%	0.290457	0.977912	0.529338	0.763465	1	3146 tags=28%, list=20%, signal=34%
NEGATIVE_REGULATION_OF_DNA_BII	16	0.364236	0.810429	0.766102	0.949963	1	2597 tags=38%, list=16%, signal=45%	0.58774	1.33913	0.0976431	0.251518	1	2217 tags=38%, list=14%, signal=43%
GSE14308_TH1_VS_TH17D_N	181	0.241819	0.809281	0.921498	0.951549	1	2856 tags=21%, list=18%, signal=25%	-0.287588	-1.10062	0.153846	0.523187	1	1690 tags=21%, list=11%, signal=23%
GSE3982_DC_VS_BASOPHIL_UP	170	0.243937	0.809274	0.91875	0.951139	1	3178 tags=25%, list=20%, signal=30%	0.376132	1.27338	0.0454545	0.322347	1	3221 tags=32%, list=20%, signal=39%
GSE11924_TH1_VS_TH17_CD4_TCELL	168	0.243852	0.808948	0.911192	0.95131	1	2570 tags=14%, list=16%, signal=17%	0.345465	1.16064	0.147914	0.481479	1	2934 tags=18%, list=18%, signal=22%
GSE360_CTRL_VS_B_MALAYI_LOW_D	174	0.243831	0.808791	0.905172	0.951168	1	3248 tags=25%, list=20%, signal=31%	0.347485	1.16824	0.133163	0.468167	1	3433 tags=31%, list=21%, signal=39%
GSE29618_LAIV_VS_TIV_FLU_VACCIN	163	0.245861	0.80864	0.891957	0.951016	1	3440 tags=18%, list=21%, signal=23%	0.357374	1.189	0.111834	0.439823	1	4843 tags=33%, list=30%, signal=46%
GSE2286_NAIVE_CD4_TCELL_VS_NK	183	0.239864	0.807773	0.917775	0.952136	1	3378 tags=24%, list=21%, signal=30%	0.264986	0.901933	0.727497	0.851716	1	2219 tags=19%, list=14%, signal=22%
GSE17721_POLYIC_VS_CPG_1H_BMD	176	0.242161	0.807468	0.930175	0.952261	1	3003 tags=23%, list=19%, signal=28%	0.260346	0.877599	0.762774	0.885178	1	2085 tags=16%, list=13%, signal=19%
GSE17721_POLYIC_VS_PAM3CSK4_24	175	0.240981	0.807081	0.933579	0.952526	1	3056 tags=22%, list=19%, signal=27%	0.332668	1.12408	0.197236	0.533795	1	3273 tags=32%, list=20%, signal=40%
GSE20151_CTRL_VS_FUSOBACT_NUC	173	0.243566	0.806732	0.909988	0.952704	1	3223 tags=20%, list=20%, signal=29%	-0.3079	-1.18179	0.0663507	0.446235	1	2964 tags=36%, list=18%, signal=43%
GSE16522_ANTI_CD3CD28_STIM_VS_	179	0.243092	0.806069	0.909646	0.953447	1	2514 tags=21%, list=16%, signal=24%	-0.268285	-1.03901	0.30102	0.600163	1	2337 tags=26%, list=15%, signal=30%
GSE33513_TCFC7_KO_VS_HET_EARLY	179	0.242514	0.805327	0.914392	0.954316	1	2854 tags=22%, list=18%, signal=27%	0.371582	1.25838	0.0628079	0.346781	1	2576 tags=25%, list=16%, signal=30%
GSE25087_FETAL_VS_ADULT_TREG_L	150	0.254457	0.805275	0.92122	0.953977	1	3340 tags=25%, list=21%, signal=32%	-0.290237	-1.09258	0.21028	0.532834	1	2829 tags=32%, list=18%, signal=38%
DEVELOPMENT_OF_PRIMARY_SEXUA	24	0.328303	0.804807	0.788162	0.954412	1	1436 tags=8%, list=9%, signal=9%	0.393152	0.987911	0.475874	0.753514	1	3378 tags=33%, list=21%, signal=42%
GSE7460_CTRL_VS_TGFb_TREATED_A	169	0.243674	0.802714	0.928916	0.957536	1	3885 tags=27%, list=24%, signal=35%	0.329075	1.09655	0.26087	0.568179	1	4044 tags=36%, list=25%, signal=47%
GSE17721_0.5H_VS_8H_CPG_BMDM	176	0.240007	0.802235	0.923551	0.957911	1	3009 tags=23%, list=19%, signal=28%	0.280229	0.946061	0.588592	0.793673	1	1922 tags=20%, list=12%, signal=23%
GSE3982_BASOPHIL_VS_EFF_MEMOR	165	0.241392	0.802141	0.925558	0.957648	1	2484 tags=17%, list=15%, signal=20%	0.362695	1.21551	0.0903541	0.411073	1	2867 tags=25%, list=18%, signal=31%
GSE29618_LAIV_VS_TIV_FLU_VACCIN	173	0.24336	0.80194	0.922509	0.957573	1	2348 tags=18%, list=15%, signal=21%	0.280186	0.945584	0.591636	0.791874	1	2874 tags=26%, list=18%, signal=31%
GSE11864_UNTREATED_VS_CSF1_IN_	166	0.24542	0.801205	0.921856	0.958371	1	2520 tags=19%, list=16%, signal=22%	-0.378559	-1.44883	0	0.289785	1	1921 tags=30%, list=12%, signal=34%
GSE11924_TH1_VS_TH2_CD4_TCELL	175	0.24343	0.801172	0.946667	0.958007	1	2815 tags=19%, list=18%, signal=23%	0.255076	0.856784	0.794555	0.904037	1	3129 tags=22%, list=19%, signal=27%
MITOCHONDRIAL_OUTER_MEMBRAN	15	0.360927	0.800781	0.7744	0.95817	1	4487 tags=47%, list=28%, signal=65%	0.435046	0.974681	0.506309	0.768608	1	3506 tags=40%, list=22%, signal=51%
GSE15930_NAIVE_VS_72H_IN_VITRO	179	0.239497	0.800467	0.926526	0.958254	1	3406 tags=26%, list=21%, signal=32%	0.279349	0.937477	0.626066	0.801862	1	2723 tags=23%, list=17%, signal=28%
GSE7460_CTRL_VS_DAY3_TIV_FLU_	157	0.242273	0.796675	0.930203	0.961295	1	2870 tags=25%, list=18%, signal=30%	-0.290803	-1.13955	0.126374	0.472946	1	2555 tags=31%, list=16%, signal=36%
GSE15659_RESTING_VS_ACTIVATED_	138	0.247596	0.800113	0.904466	0.957973	1	3504 tags=23%, list=22%, signal=29%	0.222555	0.735501	0.97561	0.988653	1	3516 tags=17%, list=22%, signal=22%
GSE13485_CTRL_VS_DAY7_YF17D_VA	151	0.245988	0.79977	0.905521	0.958121	1	2543 tags=16%, list=16%, signal=19%	-0.393759	-1.48059	0.00465116	0.301821	1	2615 tags=26%, list=16%, signal=31%
GOLGI_MEMBRANE	42	0.291742	0.798478	0.834532	0.959794	1	3680 tags=36%, list=23%, signal=46%	0.452444	1.2438	0.136364	0.369389	1	3294 tags=45%, list=21%, signal=57%
GSE27786_LIN_NEG_VS_MONO_MAC	179	0.240696	0.797738	0.935523	0.960495	1	2622 tags=20%, list=16%, signal=23%	0.231182	0.78094	0.956468	0.968344	1	2795 tags=22%, list=17%, signal=27%
TRANSCRIPTION_REPRESSOR_ACTIVIT	139	0.244873	0.796777	0.919437	0.961559	1	2194 tags=16%, list=14%, signal=18%	-0.296209	-1.11797	0.163551	0.489678	1	1981 tags=22%, list=12%, signal=25%
GSE29617_CTRL_VS_DAY3_TIV_FLU_	157	0.242273	0.796675	0.930203	0.961295	1	2082 tags=14%, list=13%, signal=16%	0.272822	0.91415	0.664557	0.833978	1	2832 tags=22%, list=18%, signal=26%
POSITIVE_REGULATION_OF_RNA_ME	113	0.251238	0.796669	0.913992	0.960886	1	3374 tags=28%, list=21%, signal=36%	-0.283942	-1.04079	0.329457	0.602996	1	2154 tags=22%, list=13%, signal=25%
GSE6269_FLU_VS_STREP_PNEUMO_II	146	0.243926	0.796667	0.908513	0.960467	1	4068 tags=38%, list=25%, signal=51%	-0.253546	-0.944668	0.61	0.769494	1	2037 tags=23%, list=13%, signal=26%
GSE17721_0.5H_VS_24H_PAM3CSK4	185	0.236904	0.796658	0.938318	0.960064	1	2466 tags=19%, list=15%, signal=22%	0.259703	0.873868	0.764115	0.889722	1	3498 tags=31%, list=22%, signal=40%
POSITIVE_REGULATION_OF_NK_ACTI	18	0.345468	0.796236	0.749158	0.960298	1	1456 tags=17%, list=9%, signal=18%	-0.38655	-0.97864	0.441327	0.703793	1	3046 tags=50%, list=19%, signal=62%
CARBOXYLIC_ACID_TRANSMEMBRAN	42	0.290117	0.794999	0.811404	0.961797	1	2634 tags=21%, list=16%, signal=26%	-0.259549	-0.788299	0.914201	0.992688	1	2686 tags=17%, list=17%, signal=20%
GSE7460_CD8_TCELL_VS_TREG_ACTI	181	0.239646	0.797463	0.941687	0.961739	1	2224 tags=17%, list=14%, signal=20%	-0.28072	-1.09921	0.159794	0.523251	1	2191 tags=27%, list=14%, signal=31%
AMINO_ACID_CATABOLIC_PROCESS	22	0.232524	0.79743	0.780328	0.962057	1	1310 tags=18%, list=8%, signal=20%	0.278126	0.67637	0.935433	0.995056	1	3768 tags=27%, list=23%, signal=36%
POSITIVE_REGULATION_OF_TRANSCR	111	0.248256	0.797395	0.902965	0.962193	1	3374 tags=28%, list=21%, signal=35%	-0.275834	-0.987375	0.465306	0.679974	1	2154 tags=22%, list=13%, signal=25%
GSE15750_DAY6_VS_DAY10_TRAFK6	173	0.238415	0.793604	0.940224	0.962302	1	4048 tags=34%, list=25%, signal=45%	0.295103	0.987857	0.753189	0.889722	1	2381 tags=21%, list=15%, signal=25%
GSE7461_TREG_VS_TCONV_ACT_WIT	173	0.239957	0.792825	0.945586	0.963098	1	3306 tags=23%, list=21%, signal=28%	0.356303	1.18707	0.112641	0.443415	1	2184 tags=21%, list=14%, signal=24%
ORGANIC_ACID_TRANSMEMBRANE_1	43	0.290106	0.792636	0.813139	0.962979	1	2634 tags=21%, list=16%, signal=25%	-0.259538	-0.800743	0.857143	0.898384	1	2795 tags=16%, list=17%, signal=19%
GSE9988_ANTI_TREM1_AND_LPS_VS	170	0.240321	0.792441	0.935484	0.962846	1	3856 tags=32%, list=24%, signal=41%	0.361276	1.21685	0.0928218	0.408461	1	2772 tags=33%, list=17%, signal=39%
EXTERNAL_SIDE_OF_PLASMA_MEMB	15	0.359848	0.791336	0.744	0.964124	1	871 tags=20%, list=5%, signal=21%	0.650458	1.46094	0.0537459	0.144987	1	5272 tags=80%, list=33%, signal=11%
GSE15930_NAIVE_VS_48H_IN_VITRO	183	0.237834	0.790998	0.951156	0.964215	1	3198 tags=22%, list=20%, signal=28%	0.464526	1.51505	0	0.118583	1	2790 tags=36%, list=17%, signal=43%
AMINO_SUGAR_METABOLIC_PROCES	16	0.355786	0.789609	0.759615	0.965864	1	518 tags=13%, list=3%, signal=13%	0.313014	0.707988	0.893333	0.994744	1	4652 tags=56%, list=29%, signal=79%
GSE27786_LSK_VS_NEUTROPHIL_DN													

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE3982_MAC_VS_NEUTROPHIL_DN	174	0.235187	0.776522	0.952147	0.973414	1	3043 tags=22%, list=19%, signal=27%	0.240453	0.805953	0.921642	0.950918	1	4138 tags=28%, list=26%, signal=37%
EPIDERMIS_DEVELOPMENT	61	0.267251	0.77564	0.870345	0.974048	1	4299 tags=21%, list=27%, signal=29%	0.609418	1.80353	0	0.0119167	0.188	1956 tags=15%, list=12%, signal=17%
GSE13229_IMM_VS_INTMATURE_NKI	175	0.232256	0.77541	0.960337	0.973928	1	3528 tags=27%, list=22%, signal=35%	0.248038	0.832809	0.884328	0.923175	1	3008 tags=24%, list=19%, signal=29%
GSE17580_UNINFECTED_VS_S_MANS	181	0.23353	0.775366	0.950704	0.973559	1	3418 tags=28%, list=21%, signal=35%	-0.272521	-1.05502	0.264151	0.578684	1	2845 tags=27%, list=18%, signal=33%
GSE17721_LPS_VS_CPG_0.5H_BMDM	176	0.233038	0.775068	0.958435	0.973499	1	3074 tags=24%, list=19%, signal=29%	-0.294976	-1.1252	0.130435	0.484295	1	3432 tags=34%, list=21%, signal=42%
GSE20366_TREG_VS_TCNV_UP	178	0.235101	0.774802	0.954933	0.9734	1	3391 tags=22%, list=21%, signal=27%	0.250018	0.848936	0.826355	0.910229	1	2353 tags=16%, list=15%, signal=19%
GSE11864_UNTREATED_VS_CSF1_IFN	167	0.234175	0.774268	0.957576	0.973635	1	2654 tags=20%, list=17%, signal=24%	0.335681	1.12681	0.216749	0.533801	1	2208 tags=22%, list=14%, signal=25%
GSE2886_NAIVE_CD4_TCELL_VS_12I	167	0.233752	0.773804	0.957627	0.973781	1	3050 tags=21%, list=19%, signal=26%	-0.334043	-1.27666	0.0197044	0.355917	1	2156 tags=29%, list=13%, signal=34%
GSE17721_0.5H_VS_8H_POLYC_BMC	178	0.232353	0.773035	0.957524	0.974286	1	3910 tags=28%, list=24%, signal=37%	0.254944	0.857075	0.810552	0.904006	1	2318 tags=19%, list=14%, signal=21%
ELECTRON_CARRIER_ACTIVITY	71	0.257899	0.772429	0.895543	0.974591	1	3030 tags=25%, list=19%, signal=31%	0.400604	1.22061	0.122928	0.405467	1	3239 tags=34%, list=20%, signal=42%
JAK_STAT CASCADE	27	0.308263	0.771259	0.84194	0.97551	1	2934 tags=26%, list=18%, signal=32%	0.359799	0.907424	0.620743	0.843156	1	3688 tags=26%, list=23%, signal=34%
GSE1448_CTRL_VS_ANTI_VBETAS_DP	185	0.230338	0.771108	0.965812	0.975293	1	2784 tags=18%, list=17%, signal=21%	0.363513	1.23761	0.0569697	0.377474	1	1829 tags=20%, list=11%, signal=22%
STEROID_HORMONE_RECEPTOR_SIGI	19	0.325499	0.770985	0.792064	0.974979	1	2348 tags=32%, list=15%, signal=37%	-0.266972	-0.684051	0.940055	0.992297	1	3424 tags=32%, list=21%, signal=40%
GSE998_ANTI_TREM1_VS_CTRL TRE	169	0.233767	0.770378	0.973848	0.975268	1	4132 tags=38%, list=26%, signal=51%	0.316502	1.06098	0.322181	0.642555	1	3119 tags=33%, list=19%, signal=41%
MEMBRANE_LIPID_BIOSYNTHETIC_PF	43	0.279078	0.768866	0.861862	0.976511	1	3859 tags=28%, list=24%, signal=37%	0.481073	1.34412	0.073138	0.246419	1	2854 tags=37%, list=18%, signal=45%
LIGAND_GATED_CHANNEL_ACTIVITY	34	0.288959	0.768865	0.84697	0.976094	1	5718 tags=32%, list=36%, signal=50%	0.214484	0.56566	0.996937	0.999511	1	4126 tags=18%, list=26%, signal=24%
GSE2706_UNSTM_VS_2H_R848_DC	152	0.237	0.768359	0.95267	0.976243	1	3419 tags=28%, list=21%, signal=35%	0.327662	1.09248	0.254476	0.578733	1	3584 tags=37%, list=22%, signal=47%
GSE15930_STIM_VS_STIM_AND_IFNA	177	0.229824	0.767979	0.962424	0.976255	1	2683 tags=18%, list=17%, signal=21%	0.369961	1.24268	0.0661058	0.370047	1	3335 tags=33%, list=21%, signal=41%
NEGATIVE_REGULATION_OF_TRANS	167	0.233755	0.767468	0.975949	0.976377	1	2667 tags=18%, list=17%, signal=21%	0.279111	0.929792	0.644872	0.811743	1	2684 tags=21%, list=17%, signal=25%
GSE17721_CTRL_VS_PAM3CSK4_0.5H	178	0.231	0.766401	0.976773	0.977146	1	2731 tags=19%, list=17%, signal=22%	-0.273737	-1.06168	0.235294	0.568481	1	2009 tags=23%, list=13%, signal=26%
PHOSPHOLIPID_METABOLIC_PROCES	67	0.256072	0.76528	0.908702	0.977883	1	1517 tags=15%, list=9%, signal=16%	0.383124	1.16062	0.207092	0.480288	1	2959 tags=31%, list=18%, signal=38%
ESTABLISHMENT_AND_OR_MAINTEN	15	0.343987	0.765206	0.801626	0.977541	1	2108 tags=20%, list=13%, signal=23%	-0.368942	-0.875111	0.640898	0.909127	1	2742 tags=40%, list=17%, signal=48%
DNA_HELICASE_ACTIVITY	24	0.309824	0.764612	0.823344	0.977739	1	2027 tags=21%, list=13%, signal=24%	-0.31018	-0.839839	0.715365	0.961006	1	1991 tags=29%, list=12%, signal=33%
ORGANELLE_OUTER_MEMBRANE	21	0.319648	0.764586	0.814873	0.977353	1	3469 tags=33%, list=22%, signal=42%	0.502374	1.23943	0.172358	0.377356	1	3506 tags=43%, list=22%, signal=55%
GSE27786_CD8_TCELL_VS_NEUTROPH	169	0.229116	0.764131	0.965644	0.977395	1	3391 tags=21%, list=21%, signal=27%	-0.240602	-0.924981	0.735577	0.809622	1	1726 tags=17%, list=11%, signal=19%
GSE17721_CPG_VS_GARDIQUIMOD_	179	0.230828	0.764113	0.972455	0.97698	1	2469 tags=16%, list=15%, signal=19%	-0.307162	-1.17202	0.0913462	0.45331	1	2842 tags=27%, list=18%, signal=33%
GSE14350_IL2RB_KO_VS_WT_TEFF_U	174	0.230354	0.763163	0.962427	0.977564	1	3004 tags=22%, list=19%, signal=27%	-0.274642	-1.05913	0.244565	0.574306	1	3140 tags=29%, list=20%, signal=35%
NUCLEAR_EXPORT	29	0.294394	0.758562	0.834109	0.981634	1	3804 tags=38%, list=24%, signal=50%	-0.378462	-1.0678	0.329341	0.556277	1	2759 tags=41%, list=17%, signal=50%
ORGANIC_ACID_TRANSPORT	40	0.27787	0.758048	0.846498	0.981708	1	2634 tags=20%, list=16%, signal=24%	0.310383	0.854185	0.73676	0.904852	1	3011 tags=20%, list=19%, signal=25%
GSE27786_BCELL_VS_MONO_MAC_U	176	0.226774	0.756415	0.97294	0.982809	1	3096 tags=23%, list=19%, signal=29%	-0.226718	-0.880671	0.921659	0.902591	1	3600 tags=35%, list=22%, signal=45%
TRANSLATIONAL_INITIATION	35	0.286725	0.756313	0.876923	0.982481	1	3786 tags=29%, list=24%, signal=37%	-0.347775	-1.01888	0.404011	0.627169	1	3297 tags=37%, list=21%, signal=47%
MAGNESIUM_ION_BINDING	54	0.263468	0.754276	0.891273	0.983878	1	3609 tags=26%, list=22%, signal=33%	-0.296059	-0.948454	0.522727	0.765532	1	2105 tags=22%, list=13%, signal=25%
LEUKOCYTE_DIFFERENTIATION	31	0.292432	0.75298	0.861751	0.98458	1	2318 tags=23%, list=14%, signal=26%	-0.303132	-0.872014	0.71137	0.914364	1	340 tags=10%, list=2%, signal=10%
TRANSFERASE_ACTIVITY_TRANSFERRI	27	0.30181	0.751515	0.867601	0.985393	1	2164 tags=19%, list=13%, signal=21%	-0.514682	-1.44175	0.04761691	0.290742	1	4150 tags=56%, list=26%, signal=75%
GSE10994_CMV_VS_LISTERIA_IND_E	178	0.223997	0.74942	0.987421	0.986692	1	3988 tags=21%, list=25%, signal=28%	0.331726	1.12319	0.20177	0.5333589	1	3277 tags=21%, list=20%, signal=26%
NITROGEN_COMPOUND_CATABOLIC	26	0.295935	0.748353	0.862805	0.987124	1	3676 tags=35%, list=23%, signal=45%	0.272277	0.687651	0.926282	0.994066	1	3768 tags=27%, list=23%, signal=35%
ENDOPLASMIC_RETICULUM_PART	86	0.243379	0.746227	0.940318	0.98839	1	3941 tags=31%, list=25%, signal=41%	0.406886	1.2693	0.0868347	0.329368	1	2129 tags=29%, list=13%, signal=33%
GSE13485_DAY1_VS_DAY3_YF17D_V	123	0.233644	0.74602	0.972259	0.988108	1	2100 tags=17%, list=13%, signal=8%	-0.199707	-0.732395	1	0.994203	1	3631 tags=11%, list=23%, signal=14%
METALLOENDOPeptidase_ACTIVITY	21	0.312024	0.745923	0.859903	0.987761	1	2115 tags=14%, list=13%, signal=16%	0.656947	1.59038	0.0145631	0.0748445	0.996	2056 tags=19%, list=13%, signal=22%
SECONDARY_ACTIVE_TRANSMEMBRA	42	0.270668	0.74482	0.899717	0.988178	1	3116 tags=24%, list=19%, signal=29%	-0.271857	-0.836319	0.792507	0.964899	1	2195 tags=14%, list=14%, signal=17%
REGULATION_OF_CELL_ATTACHMENT	29	0.293486	0.743508	0.855573	0.988767	1	1368 tags=14%, list=9%, signal=15%	0.325627	0.847441	0.707355	0.911799	1	343 tags=10%, list=2%, signal=11%
CARBOXYLIC_ACID_TRANSPORT	39	0.27788	0.74329	0.882963	0.988511	1	2634 tags=21%, list=16%, signal=24%	0.310395	0.838928	0.733638	0.915623	1	3011 tags=21%, list=19%, signal=25%
NEURON_PROJECTION	21	0.310962	0.742341	0.853226	0.988785	1	2860 tags=19%, list=18%, signal=23%	0.451253	1.10002	0.319797	0.561738	1	201 tags=10%, list=1%, signal=10%
REGULATION_OF_TRANSLATIONAL_IN	27	0.295939	0.742306	0.875614	0.988389	1	3786 tags=30%, list=24%, signal=39%	-0.341825	-0.959365	0.489855	0.748273	1	2160 tags=30%, list=13%, signal=34%
G PROTEIN_COUPLED_RECEPтор_BII	48	0.266333	0.741159	0.912917	0.988785	1	2214 tags=13%, list=14%, signal=14%	0.405529	1.15397	0.212209	0.487994	1	2677 tags=19%, list=17%, signal=22%
GSE17721_4H_VS_24H_POLYC_BMD	182	0.221364	0.740928	0.993969	0.988522	1	2589 tags=18%, list=16%, signal=21%	-0.323299	-1.25135	0.0208333	0.372839	1	2056 tags=19%, list=13%, signal=22%
GENERATION_OF_PRECURSOR_META	112	0.232993	0.740731	0.984021	0.988257	1	3584 tags=24%, list=22%, signal=31%	0.39528	1.28621	0.0632571	0.306355	1	2195 tags=14%, list=14%, signal=17%
ACTIVATION_OF_NF_KAPPAB_TRANS	16	0.326126	0.7407407	0.834697	0.987862	1	2502 tags=25%, list=20%, signal=30%	-0.314974	-0.777387	0.792553	0.995072	1	3373 tags=34%, list=21%, signal=43%
ANION_TRANSPORT	27	0.296024	0.740427	0.864734	0.987638	1	4078 tags=30%, list=25%, signal=40%	-0.286057	-0.800046	0.831025	0.988551	1	3736 tags=44%, list=23%, signal=57%
INOSITOL_OR_PHOSPHATIDYLINOSITOL	16	0.32948	0.739944	0.834711	0.987556	1	1184 tags=19%, list=7%, signal=20%	-0.340194	-0.842548	0.693095	0.960833	1	1403 tags=15%, list=9%, signal=16%
GSE18791_UNSTM_VS_NEWCATSL	168	0.222007	0.739	0.991217	0.98778	1	3170 tags=21%, list=20%, signal=26%	0.231189	0.776854	0.954198	0.970079	1	2432 tags=17%, list=15%, signal=20%
AMINO_ACID_TRANSMEMBRANE_TR	29	0.288811	0.738205	0.878274	0.987856	1	2634 tags=17%, list=16%, signal=21%	-0.352905	-1.00562	0.438642	0.642098	1	2686 tags=21%, list=17%, signal=25%
ONE_CARBO_NCOMPOUND_METABC	25	0.296323	0.738129	0.854232	0.987479	1	4568 tags=44%, list=28%, signal=61%	0.280243	0.699613	0.918877	0.994693	1	3059 tags=24%, list=19%, signal=30%
LIGAND_DEPENDENT_NUCLEAR_RECE	23	0.304143	0.737413	0.866987	0.987556	1	643 tags=13%, list=4%, signal=14%	0.341807	0.831978	0.740399	0.924034	1	753 tags=13%, list=5%, signal=14%
EXTRACELLULAR_STRUCTURE_ORGAN	27	0.294045	0.736481	0.883758	0.987738	1	5608 tags=33%, list=35%, signal=51%	-0.417954	-1.14884	0.240223	0.467427	1	5276 tags=44%, list=33%, signal=66%
NITROGEN_COMPOUND_BIOSYNTHETIC	21	0.308503	0.736034	0.869702	0.987593	1	4764 tags=48%, list=30%, signal=68%	0.546415	1.32302	0.112416	0.269543	1	3635 tags=38%, list=23%, signal=49%
TRANSLATION_REGULATOR_ACTIVITY	39	0.2752	0.736025	0.887556	0.987184	1	1140 tags=13%, list=7%, signal=14%	0.29974	0.814095	0.783259	0.943967	1	1436 tags=13%, list=9%, signal=14%
GSE27786_CD8_TCELL_VS_ERYTHRO	171	0.221433	0.735767	0.991566	0.986934	1	3887 tags=31%, list=24%, signal=40%	-0.276707	-1.03827	0.295918	0.60044	1	2977 tags=34%, list=19%, signal=41%

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

OXIDOREDUCTASE_ACTIVITY_ACTING	24	0.283807	0.698273	0.930556	0.994181	1	2992 tags=25%, list=19%, signal=31%	0.598143	1.46837	0.0390016	0.145477	1	3147 tags=50%, list=20%, signal=62%
STRUCTURE_SPECIFIC_DNA_BINDING	52	0.242439	0.695624	0.958807	0.994572	1	3220 tags=23%, list=20%, signal=29%	-0.277751	-0.892073	0.712934	0.88478	1	1959 tags=25%, list=12%, signal=28%
NUCLEOBASENUCLEOSIDENUCLEOTID	28	0.272042	0.694463	0.933116	0.994489	1	2698 tags=25%, list=17%, signal=30%	0.362517	0.921777	0.609302	0.825964	1	2265 tags=29%, list=14%, signal=33%
POSITIVE_REGULATION_OF_SECRETIC	17	0.302651	0.693128	0.904448	0.994452	1	2597 tags=24%, list=16%, signal=28%	0.372321	0.856266	0.686341	0.90363	1	3273 tags=29%, list=20%, signal=37%
GSE2708_LPS_VS_R848_AND_LPS_2H	141	0.212324	0.692507	0.998733	0.994221	1	4841 tags=28%, list=30%, signal=39%	0.279535	0.925122	0.632258	0.820166	1	2647 tags=15%, list=16%, signal=18%
MIRNA_METABOLIC_PROCESS	74	0.232383	0.69247	0.980556	0.993817	1	2875 tags=24%, list=18%, signal=29%	-0.330217	-1.11917	0.193662	0.492246	1	3869 tags=43%, list=24%, signal=57%
ENDOPLASMIC_RETICULUM_MEMBR	76	0.227783	0.68975	0.986523	0.994116	1	3941 tags=32%, list=25%, signal=42%	0.40193	1.22301	0.126062	0.398545	1	2129 tags=29%, list=13%, signal=33%
NUCLEOTIDYLTRANSFERASE_ACTIVITY	44	0.249411	0.688161	0.962697	0.994126	1	3374 tags=27%, list=21%, signal=34%	0.296913	0.830548	0.752562	0.924712	1	3234 tags=32%, list=20%, signal=40%
REGULATION_OF_NUCLEOCYTOPLASM	20	0.292975	0.687123	0.903876	0.993966	1	2597 tags=25%, list=16%, signal=30%	0.372536	0.885183	0.629752	0.874071	1	2909 tags=35%, list=18%, signal=43%
ANION_CATION_SYMPORER_ACTIVIT	15	0.302574	0.674285	0.915683	0.996336	1	3068 tags=27%, list=19%, signal=33%	-0.382643	-0.916505	0.594315	0.828397	1	1319 tags=13%, list=8%, signal=15%
REGULATION_OF_INTRACELLULAR_TF	23	0.274516	0.673856	0.95559	0.996005	1	2597 tags=22%, list=16%, signal=26%	0.371392	0.914219	0.579872	0.834255	1	3091 tags=35%, list=19%, signal=43%
VIRAL_GENOME_REPLICATION	18	0.291262	0.673398	0.910569	0.995672	1	1896 tags=17%, list=12%, signal=19%	0.366067	0.85285	0.683502	0.905663	1	3240 tags=28%, list=20%, signal=35%
RAS_GUANYL_NUCLEOTIDE_EXCHAN	15	0.301967	0.671306	0.918782	0.99564	1	57 tags=7%, list=0%, signal=7%	0.357906	0.791659	0.768313	0.963597	1	3269 tags=40%, list=20%, signal=50%
THYROID_HORMONE_RECECTOR_BIN	17	0.28992	0.666648	0.915129	0.99602	1	2198 tags=24%, list=14%, signal=27%	-0.257107	-0.623822	0.969152	0.995761	1	4296 tags=41%, list=27%, signal=56%
APICAL_PART_OF_CELL	15	0.295049	0.659081	0.93131	0.996844	1	3919 tags=27%, list=24%, signal=35%	-0.375382	-1.39955	0.0968586	0.304524	1	4798 tags=47%, list=30%, signal=67%
NUCLEAR_BODY	29	0.256626	0.657001	0.955658	0.996743	1	4041 tags=34%, list=25%, signal=46%	0.397434	1.03721	0.406442	0.686914	1	2289 tags=28%, list=14%, signal=32%
DRUG_BINDING	15	0.287097	0.639733	0.920266	0.99854	1	4407 tags=53%, list=27%, signal=73%	-0.288775	-0.705209	0.8925	0.993063	1	3294 tags=47%, list=21%, signal=59%
TRANSMEMBRANE_RECECTOR_PROTI	40	0.234949	0.63077	0.983333	0.99906	1	3356 tags=23%, list=21%, signal=28%	-0.500998	-1.47607	0.0123457	0.292942	1	1755 tags=38%, list=11%, signal=42%
PHOSPHONOSITIDE_METABOLIC_PRC	28	0.253	0.629952	0.977169	0.998721	1	1320 tags=14%, list=8%, signal=16%	0.475527	1.23983	0.154705	0.377487	1	2615 tags=36%, list=16%, signal=43%
LIPOPROTEIN_METABOLIC_PROCESS	30	0.242611	0.620799	0.984076	0.999115	1	3161 tags=23%, list=20%, signal=29%	0.426862	1.11035	0.304878	0.548845	1	3263 tags=37%, list=20%, signal=46%
TUBE_DEVELOPMENT	18	0.267672	0.617617	0.964346	0.998951	1	3164 tags=17%, list=20%, signal=21%	-0.392512	-0.97753	0.506297	0.704587	1	3326 tags=28%, list=21%, signal=35%
NEGATIVE_REGULATION_OF_TRANS	17	0.272619	0.616296	0.957307	0.998631	1	4699 tags=41%, list=29%, signal=58%	0.553592	1.29605	0.108626	0.294102	1	992 tags=18%, list=6%, signal=19%
MICROTUBULE_BINDING	28	0.24086	0.609426	0.985737	0.998724	1	4057 tags=36%, list=25%, signal=48%	-0.276479	-0.758067	0.894207	0.99578	1	2607 tags=29%, list=16%, signal=34%
ER_GOLGI_INTERMEDIATE_COMPART	24	0.249657	0.602073	0.975155	0.998806	1	5107 tags=42%, list=32%, signal=61%	0.30456	0.74976	0.846774	0.983422	1	3400 tags=33%, list=21%, signal=42%
TRANSLATION_FACTOR_ACTIVITY_NU	37	0.226751	0.600379	0.992582	0.998502	1	1140 tags=11%, list=7%, signal=12%	0.254895	0.698531	0.932203	0.994065	1	1436 tags=11%, list=9%, signal=12%
HORMONE_ACTIVITY	40	0.220521	0.5987	0.994021	0.998183	1	3564 tags=10%, list=22%, signal=13%	0.482403	1.32097	0.0851064	0.266547	1	2671 tags=13%, list=17%, signal=15%
TUBE_MORPHOGENESIS	15	0.267709	0.597701	0.956594	0.997841	1	3164 tags=20%, list=20%, signal=25%	-0.392551	-0.943261	0.487805	0.771433	1	3326 tags=33%, list=21%, signal=42%
DNA_DEPENDENT_ATPASE_ACTIVITY	20	0.247682	0.585939	0.981623	0.998085	1	2027 tags=15%, list=13%, signal=17%	0.459047	1.10423	0.320064	0.555886	1	2666 tags=45%, list=17%, signal=54%
NUCLEAR_PORE	26	0.232276	0.581764	0.987616	0.997853	1	2927 tags=27%, list=18%, signal=33%	0.452552	1.13841	0.271242	0.512189	1	1656 tags=23%, list=10%, signal=26%
STRUCTURAL_CONSTITUENT_OF_RIB	78	0.676829	-2.27452	0	0	0	3638 tags=77%, list=23%, signal=99%	-0.738402	-2.529	0	0	0	2262 tags=73%, list=14%, signal=85%
GSE22886_NAIVE_TCELL_VS_DC_UP	169	0.479217	-1.84031	0	0.0902488	0.225	3571 tags=53%, list=22%, signal=67%	-0.551613	-2.14149	0	0	0	2254 tags=47%, list=14%, signal=54%
SULFURIC_ESTER_HYDROLASE_ACTIVI	15	-0.67714	-1.58417	0.0147059	0.919496	0.978	1161 tags=27%, list=7%, signal=29%	0.485884	1.08497	0.364516	0.595738	1	1048 tags=20%, list=7%, signal=21%
GSE34205_HEALTHY_VS_RSV_INF_INF	154	-0.419526	-1.56554	0	0.807659	0.993	3684 tags=47%, list=23%, signal=61%	-0.310971	-1.19759	0.0571429	0.427231	1	2386 tags=29%, list=15%, signal=34%
tRNA_METABOLIC_PROCESS	18	-0.617453	-1.55586	0.0243902	0.697074	0.996	3100 tags=56%, list=19%, signal=69%	0.460389	1.08552	0.356452	0.594827	1	3094 tags=56%, list=19%, signal=69%
GSE14769_UNSTIM_VS_20MIN_LPS_I	168	-0.385467	-1.45462	0.00540541	1	1	1549 tags=16%, list=10%, signal=18%	0.339214	1.13859	0.176398	0.512146	1	4591 tags=26%, list=29%, signal=35%
RNA_BINDING	240	0.363806	-1.43381	0	1	1	3183 tags=40%, list=20%, signal=49%	-0.448901	-1.75845	0	0.13457	0.521	2381 tags=35%, list=15%, signal=41%
HORMONE_SECRETION	16	-0.595935	-1.4327	0.0680101	1	1	1506 tags=19%, list=9%, signal=21%	-0.327952	-0.803455	0.763298	0.988119	1	1255 tags=13%, list=8%, signal=14%
GSE22886_NAIVE_BCELL_VS_NEUTRC	171	-0.373293	-1.42648	0.00518135	1	1	3638 tags=47%, list=23%, signal=61%	-0.404006	-1.70102	0	0.181587	0.731	2087 tags=38%, list=13%, signal=43%
GSE1460_DP_THYMOCYTE_VS_NAIVE	174	-0.366932	-1.38674	0	1	1	2908 tags=35%, list=18%, signal=42%	-0.393707	-1.5075	0	0.317036	0.999	1957 tags=30%, list=12%, signal=34%
HYDROLASE_ACTIVITY_ACTING_ON_C	41	-0.450553	-1.38498	0.0350877	1	1	3172 tags=41%, list=20%, signal=52%	0.365386	0.999664	0.465492	0.741198	1	1757 tags=17%, list=11%, signal=19%
GSE13229_IMM_VS_MATURE_NKCEL	177	-0.357772	-1.3834	0	1	1	1693 tags=23%, list=11%, signal=26%	0.272347	0.926075	0.661446	0.818719	1	2722 tags=21%, list=17%, signal=25%
GSE3982_NEUTROPHIL_VS_CENT_ME	175	-0.364627	-1.38029	0.00543478	1	1	4005 tags=45%, list=25%, signal=59%	0.261272	0.887759	0.74625	0.872786	1	3609 tags=33%, list=22%, signal=42%
GSE11057_NAIVE_CD4_VS_PBMC_CD	158	-0.363577	-1.37971	0.0153061	0.935481	1	2829 tags=35%, list=18%, signal=43%	-0.282676	-1.06978	0.211268	0.552939	1	2362 tags=29%, list=15%, signal=34%
GSE22886_NAIVE_CD8_TCELL_VS_MC	173	-0.359156	-1.37276	0	0.917967	1	2564 tags=31%, list=16%, signal=37%	-0.280447	-1.06778	0.264423	0.554808	1	2519 tags=27%, list=16%, signal=31%
GSE27786_CD4_VS_CD8_TCELL_CDN	171	-0.365724	-1.37269	0.00584795	0.861091	1	3485 tags=41%, list=22%, signal=52%	0.260424	0.888948	0.740834	0.871428	1	2990 tags=23%, list=19%, signal=28%
GSE24102_GRANULOCYSTIC_MDSC_V	171	-0.358918	-1.37275	0	0.811062	1	3602 tags=36%, list=22%, signal=46%	-0.27482	-1.07051	0.206522	0.553168	1	3347 tags=37%, list=21%, signal=46%
NEUROPEPTIDE_BINDING	21	-0.520899	-1.37027	0.0775401	0.778845	1	21 tags=5%, list=0%, signal=5%	-0.474248	-1.26239	0.136247	0.365244	1	1941 tags=10%, list=12%, signal=11%
GSE22886_NAIVE_CD8_TCELL_VS_ME	159	-0.353551	-1.34447	0.00584795	0.886787	1	2464 tags=26%, list=15%, signal=30%	-0.255137	-0.977444	0.485437	0.703612	1	2441 tags=21%, list=15%, signal=25%
NEUROPEPTIDE_RECEPTOR_ACTIVITY	20	-0.521027	-1.33792	0.1009085	0.879948	1	21 tags=5%, list=0%, signal=5%	-0.4986	-1.2806	0.150943	0.348429	1	1941 tags=10%, list=12%, signal=11%
GSE25087_FETAL_VS_ADULT_TCONV	150	-0.355601	-1.3369	0.0101523	0.844589	1	3430 tags=35%, list=21%, signal=44%	-0.396642	-1.48352	0	0.304901	1	2440 tags=31%, list=15%, signal=37%
GSE13411_IGM_MEMORY_BCELL_VS	163	-0.349505	-1.33227	0.00595238	0.834488	1	2923 tags=34%, list=18%, signal=42%	-0.389184	-1.49711	0	0.317282	1	3031 tags=37%, list=19%, signal=45%
GSE3982_BCELL_VS_BASOPHIL_UP	166	-0.354949	-1.32206	0.0115607	0.8579	1	3003 tags=34%, list=19%, signal=42%	0.285946	0.963313	0.529842	0.773909	1	1775 tags=18%, list=11%, signal=20%
HYDROLASE_ACTIVITY_ACTING_ON_C	19	-0.520242	-1.31985	0.123116	0.834782	1	3172 tags=47%, list=20%, signal=59%	0.518495	1.21687	0.20315	0.409106	1	1056 tags=21%, list=7%, signal=23%
GSE34205_HEALTHY_VS_FLU_INF_INF	159	-0.348201	-1.31745	0.0218579	0.815181	1	3751 tags=47%, list=23%, signal=60%	-0.369702	-1.43002	0	0.297053	1	1312 tags=28%, list=8%, signal=31%
SMALL_NUCLEAR_RIBONUCLEOPROT	21	-0.508464	-1.31271	0.129199	0.810022	1	3711 tags=48%, list=23%, signal=62%	0.292721	0.702218	0.899361	0.994856	1	3894 tags=38%, list=24%, signal=50%
DETECTION_OF_STIMULUS_INVLV1	18	-0.5224	-1.31243	0.119701	0.781262	1	5246 tags=44%, list=33%, signal=66%	-0.50113	-1.26248	0.136038	0.367896	1	4767 tags=28%, list=30%, signal=39%
GSE13485_DAY3_VS_DAY7_YF17D_V	138	-0.34808	-1.30672	0.0197044	0.784721	1	3038 tags=30%, list=19%, signal=37%	-0.36641	-1.34958	0.0230415	0.329239	1	2179 tags=25%, list=14%, signal=29%
GSE22886_NAIVE_CD8_TCELL_VS_DC	164	-0.342186	-1.30324	0.00591716	0.777403	1	2728 tags=35%, list=17%, signal=42%	-0.341053	-1.29829	0.014218	0.350711	1	2254 tags=31%, list=14%, signal=36%
SYNAPTOGENESIS	17	-0.533379	-1.30324	0.115764	0.756158	1	611 tags=6%, list=4%, signal=6%	-0.564066	-1.41759	0.0913462	0.299185	1	5086 tags=35%, list=32%, signal=52%
GSE17721_PAM3CSK4_VS_GADIQIN	174	-0.345692	-1.30										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE3982_MAC_VS_BCELL_DN	166	-0.3335	-1.23492	0.0465116	0.711228	1	2170 tags=26%, list=14%, signal=30%	0.271206	0.910652	0.696361	0.839946	1	2917 tags=27%, list=18%, signal=32%
SPLICEROSOME	47	-0.400277	-1.23413	0.118343	0.701735	1	1933 tags=28%, list=12%, signal=31%	0.321277	0.910663	0.620795	0.840404	1	3942 tags=36%, list=25%, signal=48%
GSE11057_NAIVE_VS_MEMORY_CD4	152	-0.32954	-1.22887	0.0582011	0.71541	1	1980 tags=24%, list=12%, signal=27%	0.380531	-1.43804	0	0.292209	1	2398 tags=30%, list=15%, signal=34%
LYASE_ACTIVITY	68	-0.36984	-1.22469	0.112676	0.724495	1	1741 tags=26%, list=11%, signal=30%	0.370711	1.12375	0.251101	0.534472	1	2415 tags=24%, list=15%, signal=28%
RNA_PROCESSING	161	-0.316132	-1.22313	0.0346535	0.719851	1	3141 tags=33%, list=20%, signal=41%	-0.292284	-1.11695	0.10396	0.489954	1	2207 tags=26%, list=14%, signal=30%
GOLDRATH_NAIVE_VS_EFF_CD8_TCEI	181	-0.31786	-1.22242	0.038674	0.71238	1	2885 tags=35%, list=18%, signal=43%	-0.248137	-0.956181	0.622222	0.75524	1	2833 tags=30%, list=18%, signal=36%
RIBOSOME_BIOGENESIS_AND_ASSEN	18	-0.483793	-1.21584	0.19084	0.734227	1	4204 tags=72%, list=26%, signal=98%	-0.411339	-1.03768	0.401914	0.598555	1	1604 tags=28%, list=10%, signal=31%
GSE12886_NAIVE_VS_MONOCYTIC	172	-0.317141	-1.21199	0.0542169	0.742665	1	2147 tags=27%, list=13%, signal=31%	-0.252596	-0.971291	0.551402	0.718706	1	2519 tags=26%, list=16%, signal=30%
GSE6269_E_COLI_VS_STREP_PNEUMO	142	-0.322229	-1.2099	0.0456853	0.741483	1	1751 tags=20%, list=11%, signal=23%	-0.277843	-1.02948	0.322581	0.610632	1	2945 tags=31%, list=18%, signal=38%
DNA_DIRECTED_RNA_POLYMERASEII	64	-0.368522	-1.20898	0.139623	0.734508	1	3244 tags=42%, list=20%, signal=53%	0.27094	0.801909	0.83526	0.954439	1	4474 tags=39%, list=28%, signal=54%
GSE26495_NAIVE_VS_PD1LOW_CD8	150	-0.319193	-1.20397	0.0517241	0.749517	1	3056 tags=37%, list=19%, signal=45%	-0.280784	-1.07089	0.259259	0.554917	1	2515 tags=27%, list=16%, signal=31%
GSE13485_DAY7_VS_DAY21_YF17D	131	-0.322326	-1.20395	0.0526316	0.737699	1	2048 tags=12%, list=13%, signal=14%	0.262782	0.854159	0.819899	0.904435	1	1385 tags=8%, list=9%, signal=8%
GSE360_L_MAJOR_VS_B_MALAY_LO	174	-0.314174	-1.20058	0.0268817	0.744275	1	2662 tags=27%, list=17%, signal=32%	0.295884	0.986044	0.491925	0.749541	1	3840 tags=30%, list=24%, signal=40%
GSE18791_CTRL_VS_NEWCastle_VIR	161	-0.312099	-1.19605	0.0591133	0.75653	1	2967 tags=36%, list=18%, signal=44%	0.231879	0.772039	0.970738	0.974721	1	2742 tags=24%, list=17%, signal=28%
OXIDOREDUCTASE_ACTIVITY_ACTING	58	-0.363391	-1.19274	0.150563	0.763927	1	2214 tags=19%, list=14%, signal=22%	0.352709	1.02569	0.40176	0.701434	1	4840 tags=43%, list=30%, signal=61%
GSE15930_STIN_VS_STIN_AND_TRIC	176	-0.308341	-1.19096	0.0514286	0.762195	1	2990 tags=27%, list=19%, signal=33%	0.250863	0.845603	0.845018	0.912711	1	4061 tags=32%, list=25%, signal=42%
GSE3982_ESINOPHIL_VS_BASOPHIL	176	-0.309576	-1.18957	0.0653266	0.758726	1	3296 tags=34%, list=21%, signal=42%	-0.439014	-1.67126	0	0.21633	0.839	2212 tags=35%, list=14%, signal=40%
GSE24634_TEFF_VS_TCONV_DAYS_IN	165	-0.318428	-1.1872	0.0646766	0.760347	1	2969 tags=37%, list=18%, signal=45%	-0.269769	-1.03729	0.335025	0.598715	1	2092 tags=25%, list=13%, signal=29%
GSE13485_DAY3_VS_DAY21_YF17D	127	-0.321988	-1.18181	0.062201	0.779393	1	2999 tags=16%, list=19%, signal=19%	-0.224046	-0.80507	0.96	0.987891	1	3071 tags=12%, list=19%, signal=14%
GOLDRATH_EFF_VS_MEMORY_CD8_I	185	-0.308842	-1.17795	0.0824176	0.79121	1	2485 tags=30%, list=15%, signal=35%	-0.395002	-1.52293	0	0.303021	0.998	2833 tags=37%, list=18%, signal=44%
GSE15750_DAY6_VS_DAY10_EFF_CD8	165	-0.311385	-1.17637	0.0478723	0.790093	1	1827 tags=22%, list=11%, signal=25%	-0.264186	-1.00471	0.418182	0.64449	1	1878 tags=20%, list=12%, signal=22%
GSE36392_ESINOPHIL_VS_NEUTRO	180	-0.304841	-1.17541	0.0681818	0.784831	1	3705 tags=38%, list=23%, signal=49%	0.308374	1.03956	0.364213	0.683845	1	2670 tags=28%, list=17%, signal=33%
GSE27786_NKTCELL_VS_MONO_MAC	160	-0.30493	-1.174	0.0742857	0.782461	1	3132 tags=20%, list=20%, signal=40%	0.307104	1.04227	0.351828	0.678495	1	2295 tags=23%, list=14%, signal=26%
GSE10239_MEMORY_VS_KLRG1HIGH	161	-0.305702	-1.17351	0.0873786	0.774857	1	2799 tags=25%, list=17%, signal=31%	-0.300502	-1.15233	0.0990566	0.467239	1	3324 tags=27%, list=21%, signal=34%
GSE1432_6H_VS_24H_IFNG_MICROG	176	-0.302976	-1.17168	0.0625	0.775815	1	2636 tags=26%, list=16%, signal=31%	0.363509	1.22033	0.0872818	0.405775	1	3587 tags=36%, list=22%, signal=46%
GSE29615_CTRL_VS_DAY3_LAIV_IFLU	152	-0.308353	-1.16607	0.0817308	0.798805	1	3646 tags=29%, list=23%, signal=37%	-0.261787	-1.00628	0.415842	0.64184	1	2248 tags=19%, list=14%, signal=22%
GSE17721_POLYIC_VS_CPG_0.5BM	175	-0.303788	-1.16552	0.0617284	0.791531	1	2493 tags=24%, list=16%, signal=28%	0.353742	1.19452	0.109255	0.434316	1	2059 tags=16%, list=13%, signal=18%
GSE26495_NAIVE_VS_PD1HIGH_CD8	165	-0.307182	-1.16546	0.0802949	0.781827	1	2417 tags=28%, list=15%, signal=33%	0.237088	0.78752	0.936725	0.966213	1	2898 tags=25%, list=18%, signal=30%
KAECH_NAIVE_VS_DAY8_EFF_CD8_TC	181	-0.304023	-1.16338	0.0685714	0.784531	1	3376 tags=39%, list=21%, signal=48%	-0.358408	-1.38739	0.00546448	0.302082	1	2122 tags=31%, list=13%, signal=35%
GSE14308_INDUCED_VS_NATURAL_T	172	-0.298429	-1.15752	0.0843373	0.809294	1	3090 tags=33%, list=19%, signal=40%	-0.327943	-1.25742	0.0408163	0.364514	1	2241 tags=28%, list=14%, signal=32%
GSE10239_MEMORY_VS_DAY4.5_EFF	171	-0.299000	-1.15246	0.0825243	0.829244	1	2672 tags=27%, list=17%, signal=33%	-0.303365	-1.15573	0.0853081	0.459439	1	2459 tags=26%, list=15%, signal=31%
GSE12845_IDG_NEG_BLOOD_VS_NAI	171	-0.302112	-1.14962	0.113402	0.836831	1	2153 tags=25%, list=13%, signal=28%	0.252472	0.845924	0.84799	0.912444	1	3022 tags=26%, list=19%, signal=31%
ADENYLATE_CYCLASE_ACTIVATION	15	-0.49403	-1.14855	0.271795	0.833094	1	117 tags=13%, list=1%, signal=13%	-0.298631	-1.706833	0.888614	0.993906	1	105 tags=7%, list=1%, signal=7%
CELL_PROJECTION_PART	19	-0.453003	-1.14841	0.2552525	0.824224	1	2922 tags=37%, list=18%, signal=45%	-0.229037	-0.590496	0.982143	0.997085	1	4590 tags=42%, list=29%, signal=59%
HELICASE_ACTIVITY	50	-0.366007	-1.14608	0.190184	0.828816	1	4024 tags=52%, list=25%, signal=69%	0.284868	0.813272	0.822653	0.944509	1	2746 tags=34%, list=17%, signal=41%
GSE11794_CTRL_VS_ACT_IL4_AND_A	161	-0.296446	-1.14545	0.119048	0.82302	1	2353 tags=29%, list=15%, signal=33%	-0.258712	-0.996632	0.431472	0.660736	1	2288 tags=22%, list=14%, signal=25%
HEPARIN_BINDING	20	-0.438074	-1.14543	0.255376	0.813773	1	2045 tags=25%, list=13%, signal=29%	-0.405585	-1.0527	0.343008	0.579421	1	700 tags=15%, list=4%, signal=16%
GSE3982_NEUTROPHIL_VS_NKCELL_D	174	-0.297415	-1.14258	0.111111	0.821445	1	4007 tags=39%, list=25%, signal=52%	0.293736	0.990873	0.491443	0.749372	1	3094 tags=32%, list=19%, signal=39%
ACTIVATION_OF_IMMUNE_RESPONSI	15	-0.478104	-1.14251	0.275943	0.817227	1	2020 tags=33%, list=13%, signal=38%	0.440051	0.995641	0.470978	0.747184	1	290 tags=13%, list=2%, signal=14%
RNA_DEPENDENT_ATPASE_ACTIVITY	18	-0.456621	-1.14052	0.255155	0.815823	1	3934 tags=50%, list=25%, signal=66%	0.469091	1.10509	0.313953	0.556564	1	2746 tags=50%, list=17%, signal=60%
GSE3982_MAC_VS_NKCELL_CD4	161	-0.298952	-1.13707	0.117647	0.828157	1	1918 tags=19%, list=12%, signal=22%	-0.213677	-0.820954	0.995169	0.978963	1	3264 tags=24%, list=20%, signal=30%
GSE27786_ERYTHROBLAST_VS_NEUTI	163	-0.301029	-1.13576	0.133641	0.827287	1	2212 tags=22%, list=14%, signal=25%	-0.289236	-1.09174	0.183673	0.532813	1	1652 tags=18%, list=10%, signal=20%
GSE22886_NAIVE_CD8_TCELL_VS_NK	177	-0.296563	-1.13458	0.0899471	0.825671	1	2617 tags=27%, list=16%, signal=32%	0.293143	0.986734	0.502433	0.750872	1	2269 tags=20%, list=14%, signal=23%
TRANSLATION	168	-0.293851	-1.1332	0.0837696	0.825344	1	3428 tags=40%, list=21%, signal=50%	-0.359003	-1.39061	0	0.30943	1	1893 tags=28%, list=12%, signal=31%
GSE26495_PDIHIGH_VS_PD1LOW_CI	143	-0.299782	-1.13013	0.118812	0.835355	1	3251 tags=30%, list=20%, signal=37%	0.335767	1.10345	0.260377	0.554894	1	2585 tags=24%, list=16%, signal=29%
ATP_DEPENDENT_RNA_HELICASE_AC	17	-0.468614	-1.12972	0.274359	0.829009	1	3934 tags=53%, list=25%, signal=70%	0.525613	1.19502	0.238754	0.434482	1	2746 tags=53%, list=17%, signal=64%
SERINE_TYPE_ENDOPEPTIDASE_ACTIV	34	-0.383838	-1.1258	0.227273	0.844376	1	2977 tags=24%, list=18%, signal=29%	-0.314696	-0.928647	0.613079	0.802274	1	1779 tags=12%, list=11%, signal=13%
INTRINSIC_TO_ENDOPLASMIC_RETICL	21	-0.424264	-1.11962	0.278772	0.875358	1	1936 tags=29%, list=12%, signal=32%	0.471338	1.13066	0.290016	0.522752	1	3688 tags=57%, list=23%, signal=74%
HYDRO_LYASE_ACTIVITY	27	-0.399211	-1.11927	0.265583	0.869023	1	3006 tags=41%, list=19%, signal=50%	-0.265798	-0.739658	0.898844	0.996608	1	3358 tags=26%, list=21%, signal=33%
GSE360_L_MAJOR_VS_T_GONDII_MA	175	-0.297549	-1.11784	0.16092	0.869858	1	2588 tags=27%, list=16%, signal=32%	0.293977	0.993074	0.456227	0.750085	1	4415 tags=38%, list=28%, signal=51%
GSE29617_CTRL_VS_DAY7_TIV_FLU	165	-0.291477	-1.11611	0.106599	0.872418	1	1219 tags=18%, list=8%, signal=19%	-0.248908	-0.94191	0.634021	0.774432	1	2654 tags=24%, list=17%, signal=28%
GSE11794_LT_H2_VS_IN_VITRO_ACT	163	-0.291334	-1.11572	0.15814	0.866559	1	2405 tags=31%, list=15%, signal=36%	-0.320626	-1.22144	0.0490196	0.401868	1	2176 tags=26%, list=14%, signal=30%
GSE17721_LPS_VS_CPG_1H_BMDM_I	176	-0.288576	-1.11486	0.153061	0.8638	1	2927 tags=29%, list=18%, signal=35%	0.347507	1.1784	0.128589	0.45202	1	3512 tags=30%, list=22%, signal=38%
GSE3982_EFF_MEMORY_VS_CENT_M	167	-0.296538	-1.11385	0.140777	0.861927	1	3082 tags=32%, list=19%, signal=39%	0.342953	1.14844	0.166253	0.493475	1	2898 tags=24%, list=18%, signal=29%
MICROSOME	36	-0.375743	-1.11092	0.256637	0.827693	1	58 tags=6%, list=0%, signal=6%	0.389446	1.0583	0.366864	0.647147	1	2459 tags=31%, list=15%, signal=36%
GSE13738_RESTING_VS_TCR_ACTIVAT	152	-0.296296	-1.11082	0.13587	0.865203	1	3045 tags=29%, list=19%, signal=35%	-0.391746	-1.48585	0	0.310492	1	1878 tags=28%, list=12%, signal=32%
KAECH_DAY8_EFF_VS_MEMORY_CD8	185	-0.287549	-1.11062	0.142076	0.858378	1	2751 tags=32%, list=17%, signal=38%	-0.392277	-1.51804	0	0.303039	0.998	2584 tags=36%, list=16%, signal=42%
POSITIVE_REGULATION_OF_TRANSCR	62	-0.338907	-1.11004	0.260377	0.854183	1	1641 tags=27%, list=10%, signal=30%	-0.324633	-1.07049	0.307432	0.551669	1	2113 tags

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE22886_NAIVE_BCELL_VS_BLOOD_	175	-0.280729	-1.08455	0.220238	0.849079	1	2480 tags=27%, list=15%, signal=31%	-0.384207	-1.46653	0	0.305386	1	1731 tags=27%, list=11%, signal=30%
GSE0006_HEALTHY_VS_TYPE_2_DIAB	181	-0.281001	-1.08422	0.196429	0.844818	1	1640 tags=18%, list=10%, signal=20%	0.244822	0.827607	0.887376	0.928918	1	3451 tags=28%, list=21%, signal=35%
GSE22886_NAIVE_CD4_TCELL_VS_DC	166	-0.283531	-1.08376	0.202073	0.841425	1	2147 tags=27%, list=13%, signal=30%	-0.314418	-1.19855	0.0555556	0.431585	1	2372 tags=31%, list=15%, signal=36%
GSE26928_NAIVE_VS_CXCR5_POS_CC	154	-0.289539	-1.08302	0.224719	0.839643	1	2588 tags=27%, list=16%, signal=32%	0.233684	0.783033	0.950445	0.96899	1	3890 tags=27%, list=24%, signal=36%
GSE20366_EX_VIVO_VS_HOMEOSTAT1	174	-0.282326	-1.08281	0.235294	0.83915	1	2717 tags=29%, list=17%, signal=34%	-0.243933	-0.941388	0.672897	0.775237	1	2740 tags=26%, list=17%, signal=32%
GSE12366_GC_VS_NAIVE_BCELL_DN	155	-0.286411	-1.08157	0.204188	0.836168	1	3093 tags=32%, list=19%, signal=39%	-0.428441	-1.61732	0	0.293796	0.951	2580 tags=38%, list=16%, signal=45%
GSE17974_OH_VS_4H_IN_VITRO_ACT	173	-0.2829	-1.08152	0.206897	0.830369	1	2637 tags=25%, list=16%, signal=29%	0.39361	1.32652	0.0258621	0.266412	1	4357 tags=45%, list=27%, signal=60%
GSE1721_PAM3CSK4_PGM_0.5H	177	-0.280024	-1.08113	0.19802	0.826688	1	1858 tags=19%, list=12%, signal=21%	0.231468	0.784916	0.95098	0.967923	1	3834 tags=28%, list=24%, signal=36%
GSE14350_TREG_VS_TEFF_UP	178	-0.286127	-1.08094	0.201058	0.821985	1	2968 tags=31%, list=18%, signal=38%	-0.327309	-1.2765	0.00558659	0.35326	1	2656 tags=34%, list=17%, signal=40%
GSE8515_CTRL_VS_IL6_4H_STIM_MA	162	-0.283235	-1.07995	0.219251	0.821801	1	2633 tags=20%, list=16%, signal=24%	-0.208987	-0.796547	0.995074	0.990164	1	2335 tags=12%, list=15%, signal=14%
GSE20715_OH_VS_6H_OZONE_TLR4	172	-0.282883	-1.07958	0.204301	0.818038	1	2150 tags=21%, list=13%, signal=24%	0.341192	1.14679	0.155612	0.496621	1	3522 tags=24%, list=22%, signal=31%
GSE3982_NEUTROPHIL_VS_EFF_MEM	176	-0.285017	-1.07901	0.232044	0.815728	1	4186 tags=45%, list=26%, signal=61%	-0.269068	-1.05718	0.287293	0.577454	1	2557 tags=27%, list=16%, signal=31%
DAMAGED_DNA_BINDING	19	-0.424554	-1.07688	0.333333	0.826246	1	516 tags=16%, list=3%, signal=16%	0.541008	1.28321	0.155949	0.307605	1	4277 tags=68%, list=27%, signal=93%
GSE24634_NAIVE_CD4_TCELL_VS_DA	166	-0.284145	-1.07637	0.194286	0.820021	1	2550 tags=30%, list=16%, signal=35%	-0.318066	-1.21621	0.0197044	0.407382	1	1755 tags=22%, list=11%, signal=24%
GSE1460_INTRATHYMIC_T_PROGENIT	163	-0.282337	-1.07543	0.183784	0.82012	1	2574 tags=25%, list=16%, signal=29%	-0.371003	-1.4168	0.0103093	0.295071	1	2475 tags=29%, list=15%, signal=34%
GSE15930_STIM_VS_STIM_AND_IFNA	171	-0.279142	-1.07523	0.216667	0.815648	1	2759 tags=30%, list=17%, signal=36%	0.390967	1.30816	0.0280971	0.274708	1	3247 tags=35%, list=20%, signal=44%
COVALENT_CHROMATIN_MODIFICAT	23	-0.398907	-1.07491	0.336788	0.81915	1	3430 tags=26%, list=21%, signal=33%	0.388454	0.971989	0.5	0.771758	1	3181 tags=39%, list=20%, signal=49%
EXTRACELLULAR_SPACE	216	-0.275202	-1.07465	0.204678	0.808042	1	2432 tags=13%, list=15%, signal=16%	0.254021	0.869903	0.806792	0.892161	1	2982 tags=13%, list=19%, signal=16%
GSE17721_POLYIC_VS_PAM3CSK4_0_	184	-0.280594	-1.07372	0.194118	0.807816	1	2214 tags=21%, list=14%, signal=24%	0.346162	1.1709	0.125466	0.464321	1	3172 tags=27%, list=20%, signal=33%
GSE24634_NAIVE_CD4_TCELL_VS_DA	168	-0.279486	-1.07339	0.232044	0.80446	1	2751 tags=29%, list=17%, signal=34%	-0.319584	-1.22249	0.0336538	0.401214	1	2632 tags=32%, list=16%, signal=38%
GSE18791_CTRL_VS_NEWCASTLE_VIR	145	-0.286985	-1.0732	0.221106	0.800075	1	3652 tags=32%, list=23%, signal=42%	-0.24666	-0.924588	0.696035	0.809897	1	1750 tags=18%, list=11%, signal=20%
GSE1460_INTRATHYMIC_T_PROGENIT	171	-0.28202	-1.07225	0.2	0.800598	1	2135 tags=27%, list=13%, signal=31%	0.296515	0.995247	0.485498	0.746473	1	2967 tags=27%, list=18%, signal=33%
GSE3982_DC_VS_CENT_MEMORY_CD	167	-0.280693	-1.07196	0.227778	0.796952	1	3570 tags=32%, list=22%, signal=41%	-0.283807	-1.08506	0.189744	0.540912	1	2903 tags=28%, list=18%, signal=34%
GSE3982_MAC_VS_BASOPHIL_DN	168	-0.287133	-1.07121	0.192308	0.796141	1	3022 tags=30%, list=19%, signal=37%	-0.313972	-1.19765	0.0591398	0.429516	1	3287 tags=33%, list=20%, signal=41%
HISTONE_MODIFICATION	23	-0.398907	-1.07068	0.319672	0.793997	1	3430 tags=26%, list=21%, signal=33%	0.388454	0.962924	0.495908	0.773211	1	3181 tags=39%, list=20%, signal=49%
GSE30083_SP3_VS_SP4_THYMOCYTE	170	-0.280851	-1.07026	0.235632	0.791422	1	1963 tags=24%, list=12%, signal=27%	0.299692	0.995619	0.481108	0.746167	1	2849 tags=29%, list=18%, signal=35%
GSE17974_I4L_AND_ANTI_I1L2_VS_U	146	-0.282934	-1.06766	0.252525	0.80113	1	2099 tags=19%, list=13%, signal=22%	-0.25056	-0.951661	0.59292	0.766687	1	2389 tags=17%, list=15%, signal=20%
GSE15930_STIM_VS_STIM_AND_TRIC	172	-0.280555	-1.06739	0.246073	0.79767	1	3020 tags=25%, list=19%, signal=30%	0.335429	1.12634	0.189055	0.534384	1	2582 tags=21%, list=16%, signal=25%
GSE3982_BCELL_VS_EFF_MEMORY_C	165	-0.280602	-1.06723	0.248705	0.793591	1	2300 tags=24%, list=14%, signal=28%	0.301344	1.00358	0.447704	0.737887	1	2904 tags=25%, list=18%, signal=31%
KAECH_DAY15_EFF_VS_MEMORY_CD	184	-0.277104	-1.06545	0.248588	0.798776	1	2980 tags=32%, list=19%, signal=38%	-0.318036	-1.23144	0.0102564	0.390273	1	2796 tags=30%, list=17%, signal=36%
GSE6269_HEALTHY_VS_E_COU_INF_F	147	-0.283566	-1.05921	0.269231	0.803039	1	2703 tags=31%, list=17%, signal=37%	0.389423	1.28882	0.0418251	0.304096	1	2898 tags=34%, list=18%, signal=41%
L_AMINO_ACID_TRANSMEMBRANE_1	17	-0.422703	-1.05917	0.349869	0.825472	1	4009 tags=29%, list=25%, signal=39%	-0.294487	-0.719335	0.876289	0.993739	1	991 tags=12%, list=6%, signal=13%
COENZYME_METABOLIC_PROCESS	33	-0.372206	-1.05698	0.344538	0.833455	1	1496 tags=21%, list=9%, signal=23%	-0.30343	-0.871772	0.676829	0.912169	1	3387 tags=39%, list=21%, signal=50%
NEGATIVE_REGULATION_OF_TRANSF	32	-0.364885	-1.054531	0.361516	0.844307	1	2234 tags=34%, list=14%, signal=40%	-0.363754	-1.05582	0.331361	0.57838	1	4004 tags=47%, list=25%, signal=62%
MITOCHONDRIAL_PART	130	-0.283276	-1.05182	0.293333	0.854574	1	4115 tags=42%, list=26%, signal=55%	0.386651	1.25994	0.0813954	0.344185	1	3535 tags=35%, list=22%, signal=45%
GSE2706_LPS_VS_R848_AND_LPS_2H	116	-0.284843	-1.05138	0.321586	0.852132	1	2195 tags=13%, list=14%, signal=15%	0.276952	0.890889	0.703704	0.868476	1	2832 tags=17%, list=18%, signal=21%
GSE22886_NAIVE_BCELL_VS_DC_UP	165	-0.272461	-1.04989	0.282609	0.856422	1	2756 tags=32%, list=17%, signal=38%	0.388483	-1.33151	0.0174673	0.331401	1	1858 tags=28%, list=12%, signal=31%
GSE29618_BCELL_VS_PDC_DAY7_FLU	164	-0.274392	-1.04937	0.291209	0.854663	1	2681 tags=26%, list=17%, signal=31%	-0.342374	-1.30263	0.0188679	0.34651	1	2059 tags=27%, list=13%, signal=30%
GSE2705_R848_VS_LPS_2H_STIM_DC	133	-0.283811	-1.04896	0.260009	0.85217	1	2532 tags=24%, list=16%, signal=28%	0.264987	-0.99349	0.460317	0.668915	1	1663 tags=16%, list=10%, signal=17%
GSE17721_0.5H_VS_4H_POLYIC_BMC	179	-0.276419	-1.04844	0.307292	0.850308	1	3568 tags=31%, list=22%, signal=39%	0.316877	1.06651	0.31644	0.631166	1	3450 tags=29%, list=21%, signal=37%
VITAMIN_METABOLIC_PROCESS	16	-0.435972	-1.04631	0.386473	0.852841	1	330 tags=13%, list=20%, signal=13%	0.500529	1.13447	0.290935	0.516826	1	2664 tags=44%, list=17%, signal=52%
GSE3982_NKCELL_VS_TH1_UP	158	-0.276351	-1.04561	0.282828	0.857298	1	1779 tags=18%, list=11%, signal=20%	0.30517	1.01146	0.459459	0.726712	1	2697 tags=22%, list=17%, signal=26%
GSE1460_DP_THYMOCYTE_VS_THYM	172	-0.272333	-1.04511	0.3	0.85551	1	2418 tags=23%, list=15%, signal=27%	0.388334	1.31457	0.0279126	0.273181	1	3085 tags=27%, list=19%, signal=33%
GSE22886_NAIVE_CELL_VS_MPLA	177	-0.273212	-1.04507	0.281407	0.850828	1	2847 tags=28%, list=18%, signal=34%	-0.360297	-1.39592	0.005	0.302289	1	2453 tags=34%, list=15%, signal=40%
GSE3982_MAC_VS_CENT_MEMORY_(164	-0.27566	-1.04493	0.309278	0.846842	1	3374 tags=34%, list=21%, signal=42%	0.239365	0.794227	0.93073	0.960779	1	2799 tags=22%, list=17%, signal=26%
GSE17974_I4L_AND_ANTI_I1L2_VS_U	130	-0.284486	-1.04402	0.309735	0.847611	1	1727 tags=14%, list=11%, signal=15%	0.331356	1.07858	0.304749	0.603853	1	3602 tags=24%, list=22%, signal=30%
GSE27786_CELL_VS_CD4_TCELL_DN	167	-0.273778	-1.04243	0.316092	0.853046	1	3166 tags=29%, list=20%, signal=35%	-0.329357	-1.23699	0.025	0.37234	1	2375 tags=27%, list=15%, signal=31%
GSE18791_CTRL_VS_NEWCASTLE_VIR	158	-0.278378	-1.04223	0.322727	0.848694	1	2552 tags=31%, list=16%, signal=37%	-0.2586	-0.990297	0.44878	0.674972	1	1822 tags=20%, list=11%, signal=23%
KAECH_NAIVE_VS_DAY15_EFF_CD8_J	183	-0.271931	-1.04071	0.377778	0.853144	1	3286 tags=34%, list=20%, signal=43%	-0.279079	-1.06736	0.256545	0.553358	1	1513 tags=21%, list=9%, signal=23%
REGULATION_OF_BLOOD_PRESSURE	20	-0.394198	-1.04043	0.376022	0.850022	1	173 tags=10%, list=1%, signal=10%	0.43267	1.02282	0.435511	0.704864	1	264 tags=10%, list=2%, signal=10%
GSE11057_NAIVE_VS_CENT_MEMORY*	155	-0.277504	-1.03955	0.314433	0.850734	1	3109 tags=26%, list=19%, signal=32%	-0.381115	-1.45025	0	0.30111	1	3060 tags=34%, list=19%, signal=42%
GSE1460_NAIVE_CD4_TCELL_CORD_E	164	-0.271299	-1.03899	0.287234	0.849422	1	3335 tags=29%, list=21%, signal=36%	0.324831	1.09234	0.252451	0.578666	1	3883 tags=28%, list=24%, signal=37%
GSE14308_TH2_VS_TH17_DN	173	-0.273453	-1.0383	0.288136	0.849019	1	3218 tags=30%, list=20%, signal=37%	-0.2617	-1.10559	0.38587	0.627335	1	3644 tags=36%, list=23%, signal=47%
GSE24634_I4L_VS_CTRL_TREATED_N	178	-0.272127	-1.03775	0.294737	0.847594	1	3233 tags=37%, list=20%, signal=46%	0.272994	0.923083	0.671605	0.824451	1	2912 tags=24%, list=18%, signal=29%
AMINO_ACID_METABOLIC_PROCESS	73	-0.302634	-1.03725	0.351724	0.846028	1	3465 tags=40%, list=22%, signal=50%	0.308818	0.941422	0.589189	0.800148	1	3835 tags=32%, list=24%, signal=41%
RHYTHMIC_PROCESS	26	-0.372893	-1.03723	0.377841	0.841615	1	2757 tags=23%, list=17%, signal=28%	-0.480416	-1.33887	0.102151	0.342068	1	1823 tags=27%, list=11%, signal=30%
GSE30083_SP1_VS_SP4_THYMOCYTE	171	-0.277339	-1.03409	0.289474	0.858577	1	2102 tags=16%, list=13%, signal=19%	-0.272817	-1.04528	0.271795	0.592666	1	3442 tags=25%, list=21%, signal=31%
GSE1460_NAIVE_CD4_TCELL_ADULT	164	-0.269164	-1.03359	0.284916	0.854328	1	1869 tags=22%, list=12%, signal=2						

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE9037_WT_VS_IRAK4_KO_LPS_1H	181	-0.262981	-1.01171	0.390625	0.885182	1	2440 tags=24%, list=15%, signal=28%	0.207549	0.70037	0.997537	0.994935	1	4551 tags=34%, list=28%, signal=47%
GSE17974_0_5H_VS_72H_UNTREATED	158	-0.26998	-1.01094	0.430769	0.885722	1	2195 tags=22%, list=14%, signal=25%	-0.312213	-1.17972	0.104265	0.44589	1	2775 tags=32%, list=17%, signal=39%
GSE3982_NEUTROPHIL_VS_BCELL_DN	180	-0.261119	-1.01069	0.439189	0.883074	1	2952 tags=29%, list=18%, signal=35%	0.292772	0.987382	0.493888	0.752726	1	3447 tags=37%, list=21%, signal=46%
GSE3982_CTRL_VS_IGE_STIM_MAST	165	-0.267416	-1.01029	0.426316	0.881373	1	3421 tags=32%, list=21%, signal=40%	0.277952	0.935476	0.624204	0.805237	1	3003 tags=25%, list=19%, signal=30%
GSE3982_NEUTROPHIL_VS_BASOPHIL	183	-0.260596	-1.01004	0.417989	0.878761	1	3250 tags=34%, list=20%, signal=42%	0.296745	1.00592	0.440298	0.73423	1	2731 tags=27%, list=17%, signal=32%
GSE14350_IJL2RB_KO_VS_WT_TREG_I	165	-0.264323	-1.00843	0.427027	0.883926	1	2577 tags=25%, list=16%, signal=30%	-0.268393	-1.03214	0.319048	0.607868	1	3346 tags=33%, list=21%, signal=42%
NEGATIVE_REGULATION_OF_TRANS	114	-0.277642	-1.00622	0.389831	0.893322	1	3596 tags=34%, list=22%, signal=44%	0.300373	0.967189	0.534884	0.775715	1	2684 tags=18%, list=17%, signal=22%
GSE167202_DP_VS_CD8_SP_HYMOCY	167	-0.265707	-1.00613	0.390863	0.889816	1	2652 tags=29%, list=17%, signal=35%	-0.247834	-0.951449	0.613757	0.766178	1	1733 tags=19%, list=11%, signal=21%
GSE14308_TH1_VS_NATURAL_TREG	180	-0.262197	-1.00585	0.413979	0.887462	1	2823 tags=28%, list=18%, signal=34%	0.290321	0.977088	0.534214	0.763266	1	3742 tags=32%, list=23%, signal=41%
GSE360_CTRL_VS_T_GONDII_MAC_U	181	-0.265969	-1.00456	0.429379	0.891005	1	3784 tags=35%, list=24%, signal=46%	0.311388	1.04944	0.343101	0.663217	1	3390 tags=31%, list=21%, signal=39%
GSE3982_EFF_MEMORY_CD4_TCELL	166	-0.264066	-1.00452	0.368159	0.887201	1	2571 tags=25%, list=16%, signal=30%	0.310024	1.04889	0.346547	0.664123	1	2909 tags=25%, list=18%, signal=31%
ESTABLISHMENT_OF_ORGANELLE_LO	17	-0.411013	-1.00267	0.447028	0.894164	1	2737 tags=41%, list=17%, signal=50%	0.697999	1.61138	0.00654665	0.0688067	0.979	2459 tags=47%, list=15%, signal=56%
GSE11864_CSF1_VS_CSF1_IFNG_IN_N	161	-0.264106	-1.00191	0.418478	0.894926	1	3071 tags=29%, list=19%, signal=36%	0.304332	1.02046	0.410419	0.708755	1	2229 tags=19%, list=14%, signal=21%
GENERAL_RNA_POLYMERASE_II_TRAI	30	-0.356105	-1.00167	0.431487	0.892422	1	3199 tags=40%, list=20%, signal=50%	0.371462	0.96143	0.515974	0.774099	1	1189 tags=13%, list=7%, signal=14%
GSE13485_CTRL_VS_DAY1_YF1TD_VA	120	-0.274009	-0.997999	0.467532	0.899432	1	3497 tags=16%, list=22%, signal=20%	-0.211446	-0.766491	0.982063	0.993659	1	4233 tags=16%, list=26%, signal=21%
RNA_METABOLIC_PROCESS	16	-0.417221	-0.997914	0.429348	0.90656	1	4478 tags=69%, list=28%, signal=95%	-0.274647	-0.6825	0.934118	0.991333	1	1604 tags=19%, list=10%, signal=21%
GSE10239_MEMORY_VS_KLRG1INT_E	167	-0.261778	-0.997749	0.469274	0.903634	1	2864 tags=24%, list=18%, signal=29%	-0.288878	-1.09864	0.188119	0.523823	1	2873 tags=26%, list=18%, signal=32%
FEEDING_BEHAVIOR	21	-0.382134	-0.996874	0.444444	0.905012	1	2020 tags=5%, list=13%, signal=5%	0.397693	0.967722	0.526756	0.776454	1	5973 tags=19%, list=37%, signal=30%
GSE12366_PLASMA_CELL_VS_NAIVE	170	-0.261142	-0.994929	0.491329	0.912658	1	3630 tags=34%, list=23%, signal=44%	-0.34231	-1.31612	0.0152284	0.334443	1	3450 tags=44%, list=21%, signal=55%
GSE11924_TH2_VS_TH1_CD4_TCELL	174	-0.259073	-0.994777	0.423077	0.909573	1	2449 tags=25%, list=15%, signal=29%	-0.274813	-1.05465	0.268041	0.578759	1	2521 tags=25%, list=16%, signal=29%
GSE22886_NAIVE_TCELL_VS_NKCELL	175	-0.262191	-0.994571	0.488095	0.906784	1	2713 tags=27%, list=17%, signal=33%	-0.268719	-1.01544	0.373737	0.626553	1	2526 tags=29%, list=16%, signal=34%
TRANSFORMING_GROWTH_FACTOR_31	34	-0.345886	-0.993883	0.464674	0.906923	1	4118 tags=39%, list=26%, signal=52%	-0.537887	-1.55054	0.022926	0.295121	0.994	1755 tags=42%, list=11%, signal=47%
GSE14308_TH2_VS_NAIVE_CD4_TCEL	176	-0.262959	-0.993639	0.475	0.904506	1	2103 tags=13%, signal=25%	-0.310184	-1.19455	0.0765306	0.427441	1	3904 tags=40%, list=24%, signal=52%
MEDIATOR_COMPLEX	18	-0.403527	-0.992772	0.446701	0.905645	1	3201 tags=44%, list=20%, signal=55%	-0.50373	-1.28633	0.140212	0.352021	1	2637 tags=33%, list=16%, signal=40%
NUCLEAR_LUMEN	347	-0.237979	-0.992267	0.526882	0.904784	1	3543 tags=33%, list=22%, signal=42%	0.281025	1.00797	0.460157	0.730759	1	3312 tags=28%, list=21%, signal=34%
POSITIVE_REGULATION_OF_T_CELL_A	17	-0.38627	-0.992229	0.479675	0.901209	1	3367 tags=47%, list=21%, signal=60%	0.431499	1.03267	0.418641	0.694133	1	3886 tags=47%, list=24%, signal=62%
GSE14000_TRANSLATED_RNA_VS_MF	157	-0.263031	-0.988031	0.451977	0.911598	1	3656 tags=38%, list=23%, signal=49%	-0.476358	-1.82911	0	0.0698211	0.277	2259 tags=40%, list=14%, signal=46%
GSE1460_CD4_THMOCYTE_VS_THYM	171	-0.256944	-0.988193	0.437158	0.911498	1	1831 tags=20%, list=11%, signal=23%	-0.23502	-0.896656	0.816327	0.876067	1	2978 tags=25%, list=19%, signal=30%
GSE360_T_GONDII_VS_M_TUBERCUL	173	-0.256526	-0.988445	0.477157	0.912077	1	2367 tags=21%, list=15%, signal=25%	-0.21603	-0.83326	0.957143	0.968122	1	1642 tags=13%, list=10%, signal=14%
GSE3982_MAST_CELL_VS_CD_UP	173	-0.257578	-0.98578	0.485714	0.923869	1	2673 tags=24%, list=17%, signal=29%	-0.260789	-0.999888	0.442623	0.654678	1	2116 tags=21%, list=13%, signal=24%
GSE11864_CSF1_PAMCYS_VS_CSF1	159	-0.260987	-0.984925	0.492537	0.925109	1	3759 tags=33%, list=23%, signal=42%	-0.286464	-1.09764	0.182741	0.524287	1	2902 tags=30%, list=18%, signal=36%
GSE18791_CTRL_VS_NEWCASTLE_VIR	130	-0.264974	-0.984633	0.466667	0.922964	1	1326 tags=8%, list=8%, signal=9%	0.252087	0.820364	0.867188	0.936329	1	805 tags=6%, list=5%, signal=6%
ORGANELLE_LUMEN	413	-0.234658	-0.984188	0.577465	0.921675	1	3430 tags=32%, list=21%, signal=39%	0.294294	1.05532	0.302072	0.65454	1	4001 tags=35%, list=25%, signal=45%
GSE22886_CD8_TCELL_VS_BCELL_NA	178	-0.255396	-0.983261	0.534884	0.923359	1	3399 tags=32%, list=21%, signal=40%	0.264964	0.898769	0.722506	0.857455	1	2892 tags=26%, list=18%, signal=31%
SERINE_HYDROLASE_ACTIVITY	39	-0.323478	-0.982585	0.42735	0.923644	1	2977 tags=21%, list=19%, signal=25%	-0.338223	-1.02047	0.381766	0.624343	1	1779 tags=13%, list=11%, signal=14%
GSE15930_NAIVE_VS_72H_IN_VITRO	182	-0.256968	-0.982504	0.508571	0.920351	1	3471 tags=32%, list=22%, signal=40%	-0.277576	-0.930036	0.650485	0.811999	1	3374 tags=28%, list=21%, signal=35%
GSE11057_NAIVE_VS_EFF_MEMORY	154	-0.264384	-0.980909	0.490196	0.925734	1	2573 tags=26%, list=16%, signal=31%	-0.390206	-1.47641	0	0.301168	1	2398 tags=32%, list=15%, signal=37%
VOLTAGE_GATED_POTASSIUM_CHAN	33	-0.33394	-0.980683	0.473837	0.923379	1	1824 tags=9%, list=11%, signal=10%	0.424369	1.12018	0.284375	0.534956	1	4125 tags=27%, list=26%, signal=37%
GSE27786_LSK_VS_MONO_MAC_UP	168	-0.255521	-0.978749	0.508876	0.930131	1	3201 tags=33%, list=20%, signal=40%	0.251378	0.850432	0.834975	0.907155	1	3245 tags=26%, list=20%, signal=32%
GSE2706_R848_VS_R848_AND_LPS_2	153	-0.257442	-0.977975	0.530387	0.931847	1	2969 tags=25%, list=18%, signal=31%	-0.244756	-0.930837	0.751244	0.800476	1	3336 tags=25%, list=21%, signal=31%
GSE9037_WT_VS_IRAK4_KO_LPS_4H	170	-0.254795	-0.977728	0.557471	0.929432	1	2302 tags=20%, list=14%, signal=23%	-0.24056	-0.927524	0.736842	0.803918	1	3277 tags=29%, list=20%, signal=36%
GSE17721_12H_VS_24H_LPS_BMDM	179	-0.257934	-0.977349	0.520468	0.927825	1	2631 tags=21%, list=16%, signal=30%	-0.223696	-0.866878	0.912371	0.918023	1	2973 tags=25%, list=19%, signal=30%
GSE9006_TYPE_1_DIABETES_AT_DX_1	167	-0.259777	-0.976576	0.491892	0.92855	1	3393 tags=33%, list=21%, signal=41%	-0.365869	-1.38973	0.00873363	0.306377	1	2337 tags=28%, list=15%, signal=32%
MRNA_BINDING	22	-0.37171	-0.97648	0.486559	0.925455	1	1591 tags=23%, list=10%, signal=25%	-0.615958	-1.60734	0.015873	0.294423	0.96	3874 tags=68%, list=24%, signal=90%
POSITIVE_REGULATION_OF_LYMPHOI	22	-0.377818	-0.976148	0.485255	0.92387	1	3367 tags=45%, list=21%, signal=57%	0.451891	1.10987	0.328616	0.548946	1	3886 tags=50%, list=24%, signal=66%
MEMBRANE_ENCLOSED_LUMEN	413	-0.234658	-0.974801	0.712644	0.928074	1	3430 tags=32%, list=21%, signal=39%	0.294294	1.06169	0.297593	0.641616	1	4001 tags=35%, list=25%, signal=45%
GSE17721_LPS_VS_CPG_24H_BMDM	178	-0.258384	-0.974725	0.525424	0.924919	1	2713 tags=24%, list=17%, signal=29%	0.309309	1.0512	0.325243	0.661121	1	3303 tags=27%, list=21%, signal=34%
GSE27786_LIN_NEG_VS_NKCELL_DN	182	-0.254534	-0.972593	0.601156	0.933367	1	1968 tags=20%, list=12%, signal=23%	-0.30631	-1.17155	0.0710901	0.452729	1	2299 tags=24%, list=14%, signal=28%
REGULATION_OF_GENE_EXPRESSION	29	-0.344111	-0.972407	0.478873	0.930763	1	2222 tags=24%, list=14%, signal=28%	-0.360061	-1.01366	0.387978	0.623394	1	3155 tags=41%, list=20%, signal=51%
GSE2695_NAIVE_VS_PD1LOW_CD8_	168	-0.256848	-0.971854	0.493902	0.93022	1	2393 tags=24%, list=15%, signal=28%	0.305862	1.02041	0.412718	0.708409	1	2963 tags=29%, list=18%, signal=35%
VIRAL_REPRODUCTION	36	-0.331639	-0.971835	0.508671	0.92674	1	2540 tags=28%, list=16%, signal=33%	-0.278988	-0.822225	0.805389	0.980277	1	2108 tags=19%, list=13%, signal=22%
GSE1378_RESTING_VS_BYSTANDER	153	-0.257239	-0.96991	0.520468	0.93416	1	3546 tags=32%, list=22%, signal=41%	0.267253	0.89472	0.708543	0.864025	1	2592 tags=33%, list=16%, signal=39%
GSE360_HIGH_VS_LOW_DOSE_B_MA	180	-0.254258	-0.969127	0.569149	0.934857	1	1853 tags=16%, list=12%, signal=18%	-0.26502	-0.86062	0.795276	0.898083	1	3201 tags=25%, list=20%, signal=31%
NUCLEOLUS	109	-0.268122	-0.967407	0.524229	0.941124	1	2928 tags=33%, list=18%, signal=40%	-0.250477	-0.913907	0.746377	0.836558	1	2991 tags=31%, list=19%, signal=38%
CARBON_CARBON_LYASE_ACTIVITY	18	-0.389155	-0.966802	0.498694	0.940964	1	1600 tags=33%, list=10%, signal=37%	0.614472	1.44308	0.0539216	0.156793	1	3394 tags=44%, list=21%, signal=56%
SERINE_TYPE_PEPITASE_ACTIVITY	38	-0.32349	-0.965534	0.492877	0.94469	1	2977 tags=21%, list=19%, signal=26%	-0.33823	-0.997821	0.412903	0.660985	1	1779 tags=13%, list=11%, signal=15%
JNK CASCADE	44	-0.312323	-0.965266	0.506897	0.942623	1	1710 tags=20%, list=11%, signal=23%	0.278729	0.768905	0.848802	0.973905	1	2186 tags=18%, list=14%, signal=21%
GSE3982_DC_VS_NKCELL_DN	162	-0.252489	-0.964666	0.62069	0.942463</td								

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE22886_NAIVE_CD4_TCELL_VS_48I	168	-0.2513	-0.953496	0.607735	0.926878	1	3571 tags=36%, list=22%, signal=46%	-0.414192	-1.60269	0	0.283262	0.964	2666 tags=36%, list=17%, signal=42%
GSE360_HIGH_DOSE_B_MALAYI_VS_I	181	-0.247154	-0.951603	0.627119	0.933378	1	3412 tags=32%, list=21%, signal=40%	0.48564	1.63841	0	0.0650494	0.923	3201 tags=40%, list=20%, signal=50%
SULFOTRANSFERASE_ACTIVITY	25	-0.349944	-0.950269	0.526171	0.93711	1	2047 tags=16%, list=13%, signal=18%	-0.500474	-1.38734	0.0748663	0.297446	1	2065 tags=20%, list=13%, signal=23%
REGULATION_OF_SECRETION	35	-0.324042	-0.950061	0.526471	0.935048	1	1506 tags=17%, list=9%, signal=19%	0.449168	1.19068	0.215453	0.439846	1	3599 tags=34%, list=22%, signal=44%
GSE27786_LIN_NEG_VS_NEUTROPHIL	165	-0.249748	-0.949606	0.707447	0.934305	1	3393 tags=35%, list=21%, signal=44%	0.241749	0.811227	0.921151	0.945877	1	3474 tags=27%, list=22%, signal=34%
INDUCTION_OF_APOPTOSIS_BY_EXTR	27	-0.348305	-0.948779	0.529891	0.935263	1	3479 tags=48%, list=22%, signal=61%	0.510386	1.33781	0.0873147	0.254006	1	2944 tags=37%, list=18%, signal=45%
NEGATIVE_REGULATION_OF_RNA_MI	116	-0.260579	-0.948737	0.631841	0.93235	1	3596 tags=34%, list=22%, signal=43%	0.30404	0.988553	0.486595	0.754435	1	2684 tags=19%, list=17%, signal=23%
GSE20004_4H_BMDM	160	-0.256733	-0.94855	0.653659	0.930195	1	1780 tags=21%, list=11%, signal=24%	0.329694	1.10022	0.255373	0.561539	1	2635 tags=27%, list=16%, signal=32%
GSE36392_TYPE_2_MYELOID_VS_NEL	183	-0.246882	-0.947474	0.691919	0.932655	1	2973 tags=26%, list=19%, signal=32%	0.329671	1.11714	0.218551	0.542298	1	2877 tags=28%, list=18%, signal=34%
GSE3982_MEMORY_CD4_TCELL_VS_I	157	-0.25156	-0.946373	0.631285	0.935144	1	3072 tags=25%, list=19%, signal=30%	-0.484996	-1.87682	0	0.0445902	0.147	2084 tags=34%, list=13%, signal=39%
GSE26495_NAIVE_VS_PD1HIGH_CD8	154	-0.253816	-0.945266	0.601036	0.937607	1	3056 tags=29%, list=19%, signal=36%	-0.307809	-1.17267	0.0724638	0.455501	1	2515 tags=25%, list=16%, signal=29%
DEOXYRIBONUCLEASE_ACTIVITY	23	-0.360861	-0.944504	0.513716	0.938346	1	2698 tags=41%, list=17%, signal=49%	0.686185	1.66678	0.00162866	0.0517466	0.819	3250 tags=55%, list=20%, signal=68%
GSE3982_DC_VS_EFF_MEMORY_CD4	168	-0.248797	-0.942802	0.668508	0.943688	1	3139 tags=27%, list=20%, signal=34%	0.259003	0.871302	0.777234	0.890485	1	2948 tags=23%, list=18%, signal=28%
GSE17721_CTRL_VS_CPG_4H_BMDM	177	-0.248277	-0.942727	0.675127	0.94099	1	3222 tags=31%, list=20%, signal=38%	0.25784	0.865568	0.803089	0.896139	1	2258 tags=21%, list=14%, signal=24%
GSE2709_UNSTIM_VS_2H_LPS_AND	159	-0.240718	-0.941582	0.703125	0.943479	1	3003 tags=30%, list=19%, signal=36%	0.29263	0.978993	0.507078	0.763317	1	3138 tags=28%, list=20%, signal=35%
GSE17721_LPS_VS_PAMCSK4_0.5H	180	-0.239416	-0.94145	0.704545	0.941091	1	3230 tags=24%, list=20%, signal=30%	0.245598	0.824931	0.866258	0.931435	1	2596 tags=17%, list=16%, signal=20%
GSE3982_CENT_MEMORY_CD4_TCEL	164	-0.24749	-0.940565	0.659898	0.942379	1	3674 tags=30%, list=23%, signal=39%	-0.364791	-1.40017	0	0.308501	1	2450 tags=29%, list=15%, signal=34%
RIBONUCLEOPROTEIN_COMPLEX_BIO	78	-0.272238	-0.940231	0.605735	0.941033	1	3516 tags=35%, list=22%, signal=44%	-0.365205	-1.24231	0.0766283	0.383849	1	1798 tags=26%, list=11%, signal=29%
GSE17721_CTRL_VS_PAMCSK4_0.5H	171	-0.246292	-0.939644	0.691489	0.940853	1	2713 tags=25%, list=17%, signal=30%	0.245875	0.826058	0.887781	0.930599	1	3609 tags=25%, list=22%, signal=32%
STRESS_ACTIVATED_PROTEIN_KINASE	46	-0.299217	-0.939376	0.562691	0.93907	1	1710 tags=20%, list=11%, signal=22%	0.297246	0.837088	0.78739	0.917825	1	2186 tags=20%, list=14%, signal=23%
GSE22886_NAIVE_CD8_TCELL_VS_NE	177	-0.245172	-0.936748	0.693989	0.948819	1	3694 tags=38%, list=23%, signal=49%	-0.267945	-1.03869	0.292553	0.600149	1	2450 tags=27%, list=15%, signal=32%
GSE11864_UNTREATED_VS_CSF1_IFN	180	-0.242303	-0.936494	0.713376	0.947074	1	3112 tags=30%, list=19%, signal=37%	0.34189	1.1668	0.127427	0.469665	1	3374 tags=36%, list=21%, signal=45%
GSE3982_CTRL_VS_TGFBETA1_IL6_II	173	-0.246431	-0.935867	0.672222	0.947051	1	2023 tags=18%, list=13%, signal=20%	0.387461	1.3111	0.023199	0.274694	1	3653 tags=38%, list=23%, signal=49%
NUCLEOPLASM	257	-0.234782	-0.935565	0.783582	0.945473	1	3430 tags=32%, list=21%, signal=40%	0.317604	1.10471	0.209467	0.555184	1	2490 tags=23%, list=16%, signal=26%
GSE9037_CTRL_VS_LPS_1H_STIM_IRA	182	-0.245985	-0.935104	0.718232	0.944682	1	2338 tags=20%, list=15%, signal=24%	-0.274799	-1.0546	0.276243	0.577462	1	2771 tags=26%, list=17%, signal=32%
GSE29614_CTRL_VS_DAY3_TIV_FLU	134	-0.253889	-0.934985	0.658986	0.94228	1	3466 tags=19%, list=22%, signal=24%	0.279507	0.924503	0.645204	0.821542	1	2899 tags=16%, list=18%, signal=20%
GSE17721_PAMCSK4_VS_CPG_1H_B	168	-0.247872	-0.934786	0.687151	0.940268	1	2323 tags=21%, list=14%, signal=24%	0.404079	1.35539	0.016109	0.235684	1	3537 tags=35%, list=22%, signal=44%
GSE12845_NAIVE_VS_DARKZONE_GC	167	-0.245236	-0.932653	0.682927	0.947346	1	2436 tags=21%, list=15%, signal=24%	-0.268524	-1.0207	0.362385	0.624787	1	2027 tags=20%, list=13%, signal=23%
GSE37416_CTRL_VS_48H_F_TULARE	157	-0.245665	-0.931853	0.733333	0.94799	1	2771 tags=25%, list=17%, signal=30%	0.258053	0.860303	0.818523	0.897931	1	1619 tags=13%, list=10%, signal=15%
GSE3982_BCELL_VS_CENT_MEMORY	160	-0.246137	-0.931449	0.730337	0.946898	1	2287 tags=18%, list=14%, signal=20%	-0.321143	-1.21506	0.0585856	0.408272	1	1438 tags=15%, list=9%, signal=16%
GSE17974_I4_ANL_ANTI_I1L2_VS_U	147	-0.251234	-0.930262	0.676471	0.949404	1	4013 tags=20%, list=15%, signal=45%	0.287481	0.947271	0.59383	0.79175	1	2384 tags=22%, list=15%, signal=26%
GSE10325_CD4_TCELL_VS_LUPUS_CD	167	-0.245352	-0.929247	0.693878	0.951136	1	2368 tags=26%, list=15%, signal=30%	0.308219	1.03505	0.374046	0.690612	1	2767 tags=29%, list=17%, signal=35%
PHOSPHOINOSITIDE_BINDING	20	-0.369386	-0.929228	0.571429	0.948272	1	2988 tags=40%, list=19%, signal=49%	0.330137	0.796783	0.763458	0.958801	1	3886 tags=45%, list=24%, signal=59%
GSE17974_I4_ANL_ANTI_I1L2_VS_U	149	-0.247269	-0.928949	0.657895	0.94653	1	3052 tags=24%, list=19%, signal=30%	0.320965	1.06606	0.311757	0.631165	1	2215 tags=16%, list=14%, signal=19%
SERINE_TYPE_ENDOPEPTIDASE_INHIB	23	-0.344647	-0.929534	0.553247	0.957236	1	241 tags=9%, list=2%, signal=9%	-0.510377	-1.35813	0.0988701	0.326838	1	1073 tags=13%, list=7%, signal=14%
GSE17721_CTRL_VS_GARDIQUIMOD	185	-0.236703	-0.924621	0.763736	0.960103	1	3301 tags=32%, list=21%, signal=40%	0.307578	1.05034	0.341646	0.663169	1	3336 tags=31%, list=21%, signal=38%
MUSCLE_DEVELOPMENT	83	-0.265766	-0.923612	0.646209	0.961637	1	903 tags=8%, list=6%, signal=9%	0.375667	1.15679	0.190283	0.485845	1	3097 tags=27%, list=19%, signal=33%
GSE29617_DAY3_VS_DAY7_TIV_FLU	145	-0.245888	-0.921725	0.734597	0.967003	1	3564 tags=39%, list=22%, signal=49%	0.334806	1.115	0.225124	0.542521	1	2892 tags=28%, list=18%, signal=33%
GSE17721_LPS_VS_POLYIC_16H_BME	158	-0.248204	-0.921566	0.764706	0.964724	1	3762 tags=36%, list=23%, signal=47%	0.293474	0.998138	0.480255	0.743078	1	3122 tags=26%, list=19%, signal=31%
GSE2706_LPS_VS_R848_AND_LPS_8H	158	-0.245877	-0.921559	0.730965	0.961842	1	2532 tags=19%, list=16%, signal=22%	-0.263138	-1.990673	0.4689	0.674592	1	3698 tags=27%, list=23%, signal=35%
ENDOSOME_TRANSPORT	22	-0.353526	-0.921363	0.552486	0.959818	1	1900 tags=32%, list=12%, signal=36%	-0.265506	-1.694263	0.942623	0.99092	1	3414 tags=36%, list=21%, signal=46%
GSE36392_MAC_VS_NEUTROPHIL_IL2	168	-0.241372	-0.920141	0.778895	0.962017	1	3471 tags=32%, list=22%, signal=40%	-0.273566	-1.05205	0.290323	0.579169	1	2872 tags=35%, list=18%, signal=42%
GSE20715_OH_VS_24H_OZONE_TLR4	173	-0.240366	-0.918466	0.76506	0.966321	1	2715 tags=23%, list=17%, signal=27%	0.270621	0.910015	0.700255	0.839441	1	1607 tags=14%, list=10%, signal=16%
PROTEIN_TYROSINE_KINASE_ACTIVIT	57	-0.268384	-0.917196	0.658266	0.968704	1	2461 tags=23%, list=19%, signal=27%	-0.295697	-0.953005	0.548701	0.766319	1	1463 tags=12%, list=9%, signal=13%
GSE13411_NAIVE_BCELL_VS_PLASMA	165	-0.241555	-0.916124	0.794521	0.970293	1	3421 tags=32%, list=21%, signal=40%	-0.358781	-1.37759	0.0046729	0.300588	1	2450 tags=33%, list=15%, signal=38%
VIRAL_REPRODUCTIVE_PROCESS	31	-0.319165	-0.915678	0.608955	0.96927	1	2540 tags=29%, list=16%, signal=34%	-0.294468	-0.840441	0.70442	0.963035	1	2108 tags=19%, list=13%, signal=22%
GSE360_LOW_DOSE_B_MALAYI_VS_H	178	-0.236082	-0.914965	0.757732	0.969283	1	3059 tags=39%, list=19%, signal=34%	-0.280636	-1.08218	0.193396	0.541006	1	2124 tags=22%, list=13%, signal=25%
GSE29615_DAY3_VS_DAY7_LAIV_FLU	140	-0.245535	-0.914487	0.734177	0.968384	1	1845 tags=16%, list=11%, signal=18%	0.333489	1.10248	0.242581	0.55735	1	2484 tags=16%, list=15%, signal=18%
RESPONSE_TO_LIGHT_STIMULUS	38	-0.302504	-0.913531	0.634561	0.969526	1	3417 tags=26%, list=21%, signal=33%	0.319745	0.873125	0.691132	0.890171	1	3629 tags=29%, list=23%, signal=37%
GSE14308_TH1_VS_INDUCED_TREG_I	167	-0.242013	-0.9134	0.758065	0.967272	1	2887 tags=22%, list=18%, signal=26%	-0.229646	-0.871949	0.904523	0.91314	1	2579 tags=23%, list=16%, signal=27%
DETECTION_OF_STIMULUS	42	-0.296532	-0.910233	0.644947	0.977143	1	253 tags=5%, list=2%, signal=5%	0.281834	0.784872	0.827907	0.967518	1	3629 tags=14%, list=13%, signal=18%
GSE22786_CD8_TCELL_VS_NKTCELL_I	173	-0.234789	-0.909305	0.829545	0.977979	1	3843 tags=35%, list=24%, signal=48%	0.285635	0.957853	0.56432	0.777993	1	2941 tags=24%, list=18%, signal=29%
MITOCHONDRIAL_ENVELOPE	222	-0.229899	-0.901326	0.847561	0.989192	1	3909 tags=39%, list=24%, signal=51%	0.400302	1.2475	0.0885906	0.360955	1	2411 tags=28%, list=15%, signal=32%
GSE3982_EOSINOPHIL_VS_BCELL_DN	172	-0.238769	-0.907999	0.807229	0.977465	1	2796 tags=27%, list=17%, signal=33%	0.335709	1.1332	0.188206	0.518587	1	2845 tags=27%, list=18%, signal=32%
STEROID_METABOLIC_PROCESS	62	-0.27476	-0.905112	0.669039	0.985836	1	643 tags=8%, list=4%, signal=8%	0.390788	1.15814	0.188732	0.483931	1	4226 tags=32%, list=26%, signal=44%
MITOCHONDRIAL_RESPIRATORY_CHA	22	-0.242676	-0.904449	0.56338	0.985625	1	3163 tags=50%, list=20%, signal=62%	0.622849	1.52473	0.0165289	0.112889	1	1513 tags=41%, list=9%, signal=45%
GSE13306_TREG_VS_TCONV_LAMINA	171	-0.234911	-0.903881	0.804469	0.985057	1	3201 tags=26%, list=20%, signal=32%	-0.259344	-1.00055	0.451923	0.653117	1	2726 tags=22%, list=17%, signal=28%
ACTIN_FILAMENT	17	-0.375409	-0										

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

GSE18791_UNSTIM_VS_NEWCATSLE_	163	-0.232706	-0.8782	0.882653	1	1	3052 tags=28%, list=19%, signal=34%	0.256266	0.855372	0.814721	0.904422	1	2553 tags=21%, list=16%, signal=25%
TRANSMEMBRANE_RECEPTOR_PROTI	38	-0.298895	-0.877988	0.678466	1	1	3620 tags=26%, list=23%, signal=34%	-0.314865	-0.938376	0.544073	0.782195	1	2506 tags=16%, list=16%, signal=19%
GSE27786_CD4_TCELL_VS_NKCELL_U	161	-0.232588	-0.876941	0.844221	1	1	2996 tags=20%, list=19%, signal=25%	-0.244683	-0.94882	0.641414	0.765349	1	2711 tags=22%, list=17%, signal=26%
GSE3982_EFF_MEMORY_CD4_TCELL_	161	-0.227875	-0.876897	0.901554	1	1	3412 tags=25%, list=21%, signal=31%	-0.286008	-1.10368	0.154506	0.518189	1	1929 tags=18%, list=12%, signal=20%
INTRINSIC_TO_ORGANELLE_MEMBRA	48	-0.276945	-0.87576	0.760656	1	1	3132 tags=38%, list=20%, signal=46%	0.451715	1.30834	0.080597	0.275046	1	3695 tags=52%, list=23%, signal=67%
GSE13229_MATURE_VS_INTMATURE_	176	-0.226962	-0.874148	0.912371	1	1	2770 tags=23%, list=17%, signal=28%	-0.323541	-1.24074	0.0516432	0.385297	1	2697 tags=31%, list=17%, signal=36%
NUCLEOTIDE_EXCISION_REPAIR	19	-0.349524	-0.874015	0.645729	1	1	4046 tags=42%, list=25%, signal=56%	0.513108	1.21973	0.188291	0.405574	1	2642 tags=42%, list=16%, signal=50%
GSE17721_LPS_VS_CPG_0.5H_BMDM	176	-0.228759	-0.873056	0.893617	1	1	1744 tags=15%, list=11%, signal=16%	0.288631	0.969894	0.544304	0.773704	1	3777 tags=32%, list=24%, signal=41%
GSE27786_CD8_TCELL_VS_NEUTROPH	174	-0.231845	-0.872628	0.890909	0.999803	1	3608 tags=33%, list=22%, signal=43%	-0.339266	-1.29478	0.011111	0.349992	1	3297 tags=35%, list=21%, signal=44%
GSE37416_CTRL_VS_OH_F_TULARE	145	-0.232885	-0.871838	0.869565	0.999229	1	1864 tags=12%, list=12%, signal=13%	-0.226682	-0.863513	0.93133	0.924304	1	2082 tags=11%, list=13%, signal=13%
GSE18791_CTRL_VS_NEWCASTLE_VIR	166	-0.229077	-0.870089	0.910995	1	1	3674 tags=32%, list=23%, signal=41%	0.290468	0.978973	0.498744	0.762859	1	2432 tags=21%, list=15%, signal=25%
GSE360_CTRL_VS_L_MAJOR_MAC_UF	173	-0.230345	-0.870086	0.94186	0.998564	1	3238 tags=28%, list=20%, signal=34%	0.31435	1.0654	0.317224	0.633107	1	3226 tags=27%, list=20%, signal=34%
GSE32432_IL7_VS_IL4_MEMORY_CD8	171	-0.228955	-0.869332	0.887097	0.99793	1	3128 tags=26%, list=19%, signal=32%	0.353824	1.19537	0.0942928	0.433889	1	2990 tags=28%, list=19%, signal=34%
GSE17721_LPS_VS_GARDIQUIMOD_1	184	-0.226651	-0.868518	0.910053	0.997521	1	1692 tags=16%, list=11%, signal=18%	-0.283514	-1.09723	0.169082	0.524071	1	2925 tags=32%, list=18%, signal=39%
GSE17721_POLYIC_VS_PAM3CSKA_12	172	-0.227437	-0.86825	0.904762	0.995697	1	2837 tags=24%, list=18%, signal=29%	0.312166	1.03733	0.388388	0.687071	1	3681 tags=33%, list=23%, signal=43%
GSE32423_IL7_VS_IL7_IL4_NAIVE_CD	174	-0.226145	-0.867327	0.918033	0.995443	1	2519 tags=18%, list=16%, signal=22%	-0.230067	-0.877035	0.910714	0.908274	1	888 tags=8%, list=6%, signal=8%
GLYCEROPHOSPHOLIPID_METABOLIC	43	-0.283456	-0.866705	0.718654	0.994322	1	3553 tags=40%, list=22%, signal=51%	0.449657	1.26181	0.113293	0.341832	1	2129 tags=28%, list=13%, signal=32%
GSE29618_PRE_VS_DAY7_POST_LAIV	172	-0.226458	-0.866419	0.963158	0.992506	1	2718 tags=24%, list=17%, signal=28%	0.239606	0.802995	0.923645	0.953497	1	3728 tags=30%, list=23%, signal=38%
NUCLEAR_HORMONE_RECEPTOR_BIN	27	-0.315281	-0.86124	0.696379	1	1	3051 tags=37%, list=19%, signal=46%	-0.256168	-0.703129	0.936842	0.990941	1	2819 tags=26%, list=18%, signal=31%
GSE17721_POLYIC_VS_GARDIQUIMO1	173	-0.22703	-0.859562	0.921951	1	1	3557 tags=31%, list=22%, signal=39%	0.324135	1.09419	0.259974	0.574482	1	2507 tags=24%, list=16%, signal=28%
RIBOSOME	39	-0.28479	-0.8555	0.781711	1	1	4029 tags=44%, list=25%, signal=58%	-0.444001	-1.33208	0.0689655	0.333842	1	2884 tags=46%, list=18%, signal=56%
MITOCHONDRIAL_MEMBRANE_PART	47	-0.26991	-0.853435	0.788732	1	1	4115 tags=47%, list=26%, signal=63%	0.467163	1.31717	0.0917293	0.270909	1	1513 tags=28%, list=9%, signal=30%
PEPTIDASE_ACTIVITY	150	-0.225563	-0.851789	0.956522	1	1	2558 tags=16%, list=16%, signal=19%	0.258455	0.860357	0.799489	0.89827	1	3973 tags=26%, list=25%, signal=34%
GSE9006_HEALTHY_VS_TYPE_2_DIAB	170	-0.224011	-0.850153	0.928205	1	1	3542 tags=32%, list=22%, signal=40%	0.403221	1.35371	0.0209618	0.238935	1	2943 tags=32%, list=18%, signal=39%
HISTONE_DEACETYLASE_COMPLEX	17	-0.338877	-0.849265	0.711286	1	1	3172 tags=35%, list=20%, signal=44%	0.452822	1.05446	0.366667	0.6562	1	1095 tags=24%, list=7%, signal=25%
GSE36392_TYPE_2_MYELOID_VS_MA	172	-0.221603	-0.848896	0.955696	1	1	2898 tags=25%, list=18%, signal=30%	0.279177	0.931701	0.643468	0.808342	1	3624 tags=32%, list=23%, signal=41%
GSE27786_ERYTHROBLAST_VS_NEUTI	171	-0.222759	-0.848354	0.964072	1	1	3262 tags=29%, list=20%, signal=36%	0.272183	0.913488	0.674907	0.834976	1	3858 tags=34%, list=24%, signal=44%
GSE17721_CTRL_VS_CPG_0.5H_BMD	172	-0.223145	-0.848142	0.955556	1	1	3481 tags=24%, list=22%, signal=30%	0.331133	1.11489	0.211302	0.542346	1	3486 tags=27%, list=22%, signal=34%
MITOCHONDRIAL_MEMBRANE	77	-0.246846	-0.845238	0.846774	1	1	4292 tags=43%, list=27%, signal=58%	0.403235	1.24751	0.11641	0.361674	1	1994 tags=25%, list=12%, signal=28%
GSE398207_TGFbeta1_IL6_VS_TGFbeta1	176	-0.220775	-0.842068	0.957672	1	1	3807 tags=30%, list=24%, signal=38%	0.253625	0.853474	0.823163	0.905117	1	3002 tags=23%, list=19%, signal=28%
GSE25087_TREG_VS_TCONY_ADULT_	156	-0.220966	-0.839301	0.947644	1	1	3428 tags=33%, list=21%, signal=42%	-0.296081	-1.11828	0.147619	0.492117	1	3343 tags=36%, list=21%, signal=45%
GSE18791_UNSTIM_VS_NEWCATSLE_	125	-0.229277	-0.838045	0.931034	1	1	2222 tags=10%, list=14%, signal=12%	0.29213	0.942244	0.599483	0.799003	1	3283 tags=14%, list=20%, signal=18%
COFACTOR_METABOLIC_PROCESS	49	-0.264633	-0.834879	0.836991	1	1	2380 tags=24%, list=15%, signal=29%	0.284966	0.814396	0.792847	0.943849	1	2672 tags=24%, list=17%, signal=29%
GSE22886_NAIVE_TCELL_VS_NEUTRO	184	-0.216815	-0.832577	0.981928	1	1	3128 tags=32%, list=19%, signal=39%	0.262732	0.891235	0.749068	0.868437	1	2530 tags=23%, list=16%, signal=27%
CHROMATIN_MODIFICATION	51	-0.261048	-0.832344	0.818713	1	1	3626 tags=27%, list=23%, signal=35%	0.26585	0.759833	0.888563	0.978621	1	2114 tags=20%, list=13%, signal=23%
NEGATIVE_REGULATION_OF_MAP_KI	17	-0.340091	-0.8315	0.680519	1	1	2234 tags=41%, list=14%, signal=48%	-0.326209	-0.796263	0.782258	0.988985	1	3244 tags=41%, list=20%, signal=52%
TRANSMEMBRANE_RECEPTOR_PROTI	44	-0.26788	-0.829654	0.825545	1	1	3268 tags=25%, list=20%, signal=31%	-0.386238	-1.18761	0.1571	0.441051	1	1664 tags=18%, list=10%, signal=20%
COFACTOR_BINDING	22	-0.313155	-0.827524	0.754144	1	1	2703 tags=27%, list=17%, signal=33%	0.467087	1.16454	0.241158	0.475392	1	1165 tags=23%, list=7%, signal=24%
DETECTION_OF_CHEMICAL_STIMULU	17	-0.336363	-0.825268	0.741546	1	1	5612 tags=29%, list=35%, signal=45%	-0.687592	-1.17864	0.078534	0.174078	0.672	2828 tags=24%, list=18%, signal=29%
RESPONSE_TO_UV	22	-0.313006	-0.823601	0.753316	1	1	3417 tags=32%, list=21%, signal=40%	0.355811	0.862195	0.669394	0.898903	1	4063 tags=36%, list=25%, signal=49%
GSE27786_LSK_VS_ERYTHROBLAST_U	179	-0.215858	-0.823344	0.994845	1	1	3422 tags=30%, list=21%, signal=38%	0.307711	1.04435	0.352258	0.675747	1	2007 tags=22%, list=13%, signal=25%
MONOOXYGENASE_ACTIVITY	22	-0.304877	-0.821107	0.744125	1	1	2225 tags=9%, list=14%, signal=11%	-0.344735	-0.891553	0.597826	0.884972	1	2122 tags=9%, list=13%, signal=10%
PROTEASOME_COMPLEX	22	-0.30289	-0.81483	0.756233	1	1	4355 tags=50%, list=27%, signal=69%	0.304494	0.73451	0.87619	0.988739	1	2176 tags=18%, list=14%, signal=21%
GSE360_CTRL_VS_MAC_B_MALAYI_LOV	180	-0.21179	-0.80759	0.979167	1	1	3712 tags=32%, list=23%, signal=41%	0.366471	1.23436	0.6095971	0.381283	1	3571 tags=36%, list=22%, signal=46%
MITOCHONDRIAL_MATRIX	44	-0.262167	-0.806457	0.842105	1	1	4038 tags=41%, list=25%, signal=55%	0.411889	1.15186	0.222386	0.491446	1	3835 tags=43%, list=24%, signal=57%
CELL_CORTEX	33	-0.277832	-0.803537	0.840361	1	1	3223 tags=33%, list=20%, signal=42%	-0.320427	-0.938599	0.544959	0.782643	1	2309 tags=27%, list=14%, signal=32%
EXOPEPTIDASE_ACTIVITY	29	-0.282303	-0.799535	0.820442	1	1	4095 tags=34%, list=26%, signal=46%	-0.256294	-0.725839	0.927374	0.994002	1	3151 tags=31%, list=20%, signal=39%
CELLULAR_RESPIRATION	17	-0.321525	-0.797824	0.743842	1	1	3153 tags=29%, list=20%, signal=37%	0.485482	1.12333	0.299517	0.533621	1	3373 tags=41%, list=21%, signal=52%
MITOCHONDRIAL_LUMEN	44	-0.262167	-0.797011	0.861671	1	1	4038 tags=41%, list=25%, signal=55%	0.411889	1.15055	0.242291	0.49074	1	3835 tags=43%, list=24%, signal=57%
NUCLEAR_DNA_DIRECTED_RNA_POLY	17	-0.314408	-0.796899	0.75	1	1	3244 tags=41%, list=20%, signal=52%	0.302427	0.688176	0.88488	0.99487	1	5045 tags=47%, list=31%, signal=69%
ORGANELLE_LOCALIZATION	22	-0.297418	-0.795305	0.775076	1	1	2737 tags=32%, list=17%, signal=38%	0.644109	1.56335	0.0162602	0.0941695	1	1586 tags=36%, list=10%, signal=40%
DOUBLE_STRANDED_DNA_BINDING	30	-0.282068	-0.795044	0.831956	1	1	4211 tags=53%, list=26%, signal=72%	-0.334098	-0.963992	0.46988	0.737535	1	1959 tags=33%, list=12%, signal=38%
OXIDOREDUCTASE_ACTIVITY_ACTING	21	-0.302067	-0.794772	0.796247	1	1	3065 tags=29%, list=19%, signal=35%	0.342697	0.828659	0.707936	0.927664	1	3798 tags=43%, list=24%, signal=56%
REGULATION_OF_T_CELL_ACTIVATIO	25	-0.288489	-0.79286	0.832877	1	1	2432 tags=32%, list=15%, signal=38%	0.498253	1.25269	0.151667	0.356325	1	2120 tags=32%, list=13%, signal=37%
COATED_VESICLE	44	-0.257123	-0.790708	0.861671	1	1	2420 tags=23%, list=15%, signal=27%	0.404326	1.11705	0.281776	0.541439	1	1960 tags=27%, list=12%, signal=31%
ELECTRON_TRANSPORT_GO_0006118	46	-0.253344	-0.786535	0.911765	1	1	2789 tags=20%, list=17%, signal=24%	0.537763	1.52529	0.0134128	0.113501	1	3011 tags=39%, list=19%, signal=48%
ACETYLCOLINE_BINDING	16	-0.326227	-0.785276	0.767677	1	1	2807 tags=25%, list=17%, signal=30%	-0.286278	-0.704563	0.9125	0.991888	1	3209 tags=25%, list=20%, signal=31%
DNA_DIRECTED_RNA_POLYMERASE_C	17	-0.314408	-0.784823	0.8	1	1	3244 tags=41%, list=20%, signal=52%	0.302427	0.704298	0.881356	0.995154	1	5045 tags=47%, list=31%, signal=69%
DIGESTION	35	-0.267435	-0.784299	0.867036	1	1	2269 tags=11%, list=14%, signal=13%	-0.257707	-0.746369	0.932961	0.996251	1	1340 tags=9%, list=8%, signal=9%
RNA_POLYMERASE_COMPLEX	17	-0.314408	-0.781943	0.817694	1	1	3244 tags=41%, list=20%, signal=52%	0.302427	0.704473	0.894825	0.995563	1	504

Supplementary Table 3. Gene enrichment statistics for HD and control monkeys.

CELL_MATURATION	15	-0.291617	-0.694418	0.899015	1	1	5358 tags=47%, list=33%, signal=70%	-0.481928	-1.146	0.290404	0.471554	1	373 tags=13%, list=2%, signal=14%
ORGANELAR_RIBOSOME	22	-0.254862	-0.675595	0.949198	1	1	4029 tags=41%, list=25%, signal=55%	0.282381	0.702662	0.914191	0.995189	1	3779 tags=32%, list=24%, signal=42%
MITOCHONDRIAL_RIBOSOME	22	-0.254862	-0.67452	0.955801	1	1	4029 tags=41%, list=25%, signal=55%	0.282381	0.685564	0.903633	0.99408	1	3779 tags=32%, list=24%, signal=42%
RNA_POLYMERASE_ACTIVITY	16	-0.269387	-0.66428	0.935714	1	1	3762 tags=38%, list=23%, signal=49%	0.203051	0.456049	0.998377	0.999937	1	4798 tags=44%, list=30%, signal=62%
DNA_CATABOLIC_PROCESS	20	-0.258058	-0.661518	0.95082	1	1	3703 tags=40%, list=23%, signal=52%	0.523087	1.2345	0.176471	0.382296	1	3851 tags=45%, list=24%, signal=59%
DENDRITE	15	-0.281741	-0.659929	0.935135	1	1	2158 tags=20%, list=13%, signal=23%	0.274116	0.606923	0.948963	0.99851	1	1994 tags=13%, list=12%, signal=15%
DETECTION_OF_EXTERNAL_STIMULUS	18	-0.258901	-0.648201	0.976623	1	1	253 tags=6%, list=2%, signal=6%	0.370114	0.875385	0.639159	0.889073	1	3629 tags=17%, list=23%, signal=22%
RIBOSOMAL_SUBUNIT	20	-0.245329	-0.644274	0.972603	1	1	3428 tags=35%, list=21%, signal=44%	-0.2773	-0.709043	0.894879	0.994575	1	3820 tags=45%, list=24%, signal=59%
COATED_VESICLE_MEMBRANE	16	-0.257347	-0.625695	0.962025	1	1	3875 tags=31%, list=24%, signal=41%	0.645064	1.51133	0.0345423	0.122021	1	3594 tags=56%, list=22%, signal=72%
MEMBRANE_COAT	16	-0.254177	-0.624362	0.981865	1	1	3875 tags=31%, list=24%, signal=41%	0.65605	1.48365	0.0270701	0.136376	1	3594 tags=63%, list=22%, signal=80%
COATED_MEMBRANE	16	-0.254177	-0.615039	0.964912	0.999175	1	3875 tags=31%, list=24%, signal=41%	0.65605	1.46337	0.0344828	0.145276	1	3594 tags=63%, list=22%, signal=80%
VESICLE_COAT	15	-0.257362	-0.611793	0.957606	0.99736	1	3875 tags=33%, list=24%, signal=44%	0.645077	1.44382	0.0424837	0.156364	1	3594 tags=60%, list=22%, signal=77%
COLLAGEN	16	-0.245995	-0.596608	0.978723	0.996512	1	866 tags=6%, list=5%, signal=7%	-0.418954	-1.04629	0.372881	0.590003	1	2773 tags=13%, list=17%, signal=15%