

Secondary Progressive MS

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
WP_NETWORK_MAP_OF_SARSCOV2_SIGNALING_PATHWAY	149	0.8460869	2.5432181	0.0	0.0	0.0	676	tags=39%, list=4%, signal=40%
WP_OVERVIEW_OF_PROINFLAMMATORY_AND_PROFIBROTIC_MEDIATORS	50	0.93976414	2.470999	0.0	0.0	0.0	473	tags=78%, list=3%, signal=80%
WP_SARSCOV2_INNATE_IMMUNITY_EVASION_AND_CELLSPECIFIC_IMMUNE_RESPONSE	51	0.90117097	2.3926134	0.0	0.0	0.0	570	tags=55%, list=4%, signal=57%
WP_IL18_SIGNALING_PATHWAY	218	0.74076456	2.3238444	0.0	0.0	0.0	989	tags=26%, list=6%, signal=27%
WP_TOLLLIKE_RECEPTOR_SIGNALING_PATHWAY	70	0.8184287	2.2512605	0.0	0.0	0.0	1569	tags=50%, list=10%, signal=55%
WP_BURN_WOUND_HEALING	76	0.80698717	2.2512403	0.0	0.0	0.0	669	tags=34%, list=4%, signal=36%
WP_PHOTODYNAMIC_THERAPYINDUCED_NFKB_SURVIVAL_SIGNALING	31	0.9071497	2.2422645	0.0	0.0	0.0	497	tags=58%, list=3%, signal=60%
WP_ALLOGRAFT_REJECTION	54	0.8490738	2.2395604	0.0	0.0	0.0	692	tags=37%, list=4%, signal=39%
WP_CYTOSOLIC_DNASENSING_PATHWAY	54	0.8315613	2.236571	0.0	0.0	0.0	860	tags=39%, list=6%, signal=41%
WP_CHEMOKINE_SIGNALING_PATHWAY	122	0.7467291	2.2237914	0.0	0.0	0.0	1093	tags=26%, list=7%, signal=28%
WP_MEASLES_VIRUS_INFECTION	99	0.77047217	2.2223508	0.0	0.0	0.0	1005	tags=36%, list=7%, signal=39%
WP_TYPE_II_INTERFERON_SIGNALING_IFNG	27	0.92428946	2.1978188	0.0	0.0	0.0	755	tags=81%, list=5%, signal=86%
WP_LUNG_FIBROSIS	47	0.8480363	2.174579	0.0	0.0	0.0	882	tags=40%, list=6%, signal=43%
WP_MIRNAS_INVOLVEMENT_IN_THE_IMMUNE_RESPONSE_IN_SEPSIS	30	0.90992916	2.163208	0.0	0.0	0.0	436	tags=57%, list=3%, signal=58%
WP_NONGENOMIC_ACTIONS_OF_125_DIHYDROXYVITAMIN_D3	60	0.8013839	2.161435	0.0	0.0	0.0	1005	tags=38%, list=7%, signal=41%
WP_NOVEL_INTRACELLULAR_COMPONENTS_OF_RIGILIKE_RECEPTOR_RLR_PATHWAY	51	0.81449455	2.1494145	0.0	0.0	0.0	1181	tags=37%, list=8%, signal=40%
WP_VITAMIN_B12_METABOLISM	37	0.848672	2.1324003	0.0	0.0	0.0	586	tags=35%, list=4%, signal=36%

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WP_APOPTOSIS	74	0.7569625	2.129045	0.0	0.0	0.0	1914	tags=49%, list=12%, signal=55%
WP_PROSTAGLANDIN_SIGNALING	20	0.9473872	2.123287	0.0	0.0	0.0	572	tags=85%, list=4%, signal=88%
WP_FOLATE_METABOLISM	47	0.81010765	2.119544	0.0	0.0	0.0	1397	tags=38%, list=9%, signal=42%
WP_TNFRELATED_WEAK_INDUCER_OF_APOPTOSIS_TWEAK_SIGNALING_PATHWAY	38	0.8404808	2.108779	0.0	0.0	0.0	1181	tags=50%, list=8%, signal=54%
WP_TNEALPHA_SIGNALING_PATHWAY	84	0.7456271	2.0979562	0.0	0.0	0.0	1635	tags=39%, list=11%, signal=44%
WP_EBOLA_VIRUS_INFECTION_IN_HOST	115	0.7012862	2.0875921	0.0	0.0	0.0	1673	tags=35%, list=11%, signal=39%
WP_APOPTOSISRELATED_NETWORK_DUE_TO_ALTERED_NOTCH3_IN_OVARIAN_CANCER	52	0.7885452	2.0871582	0.0	0.0	0.0	1755	tags=48%, list=11%, signal=54%
WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONAVIRUSES_INTERFERON_INDUCTION	32	0.85562384	2.0869937	0.0	0.0	0.0	1005	tags=56%, list=7%, signal=60%
WP_IMMUNE_RESPONSE_TO_TUBERCULOSIS	22	0.9274794	2.0833354	0.0	0.0	0.0	1005	tags=86%, list=7%, signal=92%
WP_VITAMIN_D_RECEPTOR_PATHWAY	102	0.7107194	2.0802145	0.0	0.0	0.0	1471	tags=29%, list=10%, signal=32%
WP_HEPATITIS_B_INFECTION	122	0.6964496	2.0763535	0.0	0.0	0.0	1864	tags=35%, list=12%, signal=40%
WP_THYMIC_STROMAL_LYMPHOPOIETIN_TSLP_SIGNALING_PATHWAY	38	0.83096075	2.0644739	0.0	0.0	0.0	1534	tags=50%, list=10%, signal=55%
WP_TYPE_1_INTERFERON_INDUCTION_AND_SIGNALING_DURING_SARSCOV2_INFECTION	24	0.87546664	2.0607483	0.0	0.0	0.0	1569	tags=79%, list=10%, signal=88%
WP_TCELL_RECEPTOR_TCR_SIGNALING_PATHWAY	65	0.7561409	2.051476	0.0	0.0	0.0	1930	tags=42%, list=13%, signal=47%
WP_SELENIUM_MICRONUTRIENT_NETWORK	63	0.7434307	2.0440016	0.0	0.0	0.0	1181	tags=32%, list=8%, signal=34%
WP_GLUCOCORTICOID_RECEPTOR_PATHWAY	54	0.7523782	2.0430808	0.0	0.0	0.0	1174	tags=31%, list=8%, signal=34%
WP_FIBRIN_COMPLEMENT_RECEPTOR_3_SIGNALING_PATHWAY	30	0.8409784	2.0425556	0.0	0.0	0.0	436	tags=30%, list=3%, signal=31%

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WP_PHOTODYNAMIC_THERAPYINDUCED_HIF1_SURVIVAL_SIGNALING	34	0.8323053	2.0369625	0.0	0.0	0.0	1179	tags=53%, list=8%, signal=57%
WP_EBSTEINBARR_VIRUS_LMP1_SIGNALING	22	0.8869853	2.0321584	0.0	0.0	0.0	448	tags=41%, list=3%, signal=42%
WP_CYTOKINES_AND_INFLAMMATORY_RESPONSE	15	0.96241194	2.0276701	0.0	0.0	0.0	473	tags=80%, list=3%, signal=82%
WP_ADIPOGENESIS	100	0.68804413	2.0101457	0.0	3.600608E-05	0.001	1561	tags=30%, list=10%, signal=33%
WP_SIGNAL_TRANSDUCTION_THROUGH_IL1R	29	0.837423	1.9965441	0.0	3.5082845E-05	0.001	873	tags=41%, list=6%, signal=44%
WP_ANTIVIRAL_AND_ANTIINFLAMMATORY_EFFECTS_OF_NRF2_ON_SARSCOV2_PATHWAY	25	0.8385395	1.9950932	0.0	3.4205776E-05	0.001	1392	tags=52%, list=9%, signal=57%
WP_ACUTE_VIRAL_MYOCARDITIS	64	0.73279077	1.9920508	0.0	3.337149E-05	0.001	1796	tags=36%, list=12%, signal=41%
WP_OREXIN_RECEPTOR_PATHWAY	104	0.68628234	1.9871063	0.0	6.26563E-05	0.002	1114	tags=30%, list=7%, signal=32%
WP_INTERACTIONS_OF_NATURAL_KILLER_CELLS_IN_PANCREATIC_CANCER	17	0.9063179	1.9694649	0.0	1.517542E-04	0.005	171	tags=35%, list=1%, signal=36%
WP_ONCOSTATIN_M_SIGNALING_PATHWAY	62	0.72465867	1.9681491	0.0	1.4830525E-04	0.005	1688	tags=42%, list=11%, signal=47%
WP_SPINAL_CORD_INJURY	90	0.6820536	1.9676989	0.0	1.4500957E-04	0.005	1539	tags=30%, list=10%, signal=33%
WP_HEPATITIS_C_AND_HEPATOCELLULAR_CARCINOMA	44	0.7678406	1.9605255	0.0	1.4185719E-04	0.005	1534	tags=39%, list=10%, signal=43%
WP_RANKLRANK_SIGNALING_PATHWAY	49	0.74385184	1.9507523	0.0	1.669359E-04	0.006	1181	tags=35%, list=8%, signal=37%
WP_IL1_SIGNALING_PATHWAY	52	0.73290676	1.9452747	0.0	1.6345807E-04	0.006	1534	tags=38%, list=10%, signal=43%
WP_APOPTOSIS_MODULATION_AND_SIGNALING	79	0.7099479	1.9427781	0.0	1.601222E-04	0.006	1179	tags=32%, list=8%, signal=34%
WP_HEMATOPOIETIC_STEM_CELL_DIFFERENTIATION	33	0.7892056	1.9369601	0.0	2.387379E-04	0.009	669	tags=33%, list=4%, signal=35%
WP_PHOTODYNAMIC_THERAPYINDUCED_API1_SURVIVAL_SIGNALING	44	0.7628298	1.9259088	0.0	2.6098205E-04	0.01	1816	tags=45%, list=12%, signal=51%

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WP_NUCLEAR_RECEPTORS_METAPATHWAY	209	0.6121718	1.9102982	0.0	3.3318944E-04	0.013	1447	tags=27%, list=9%, signal=30%
WP_GASTRIN_SIGNALING_PATHWAY	104	0.6454356	1.9081985	0.0	3.7588252E-04	0.015	1688	tags=28%, list=11%, signal=31%
WP_TLR4_SIGNALING_AND_TOLERANCE	25	0.8200695	1.9060669	0.0	3.6892173E-04	0.015	1864	tags=56%, list=12%, signal=64%
WP_IL6_SIGNALING_PATHWAY	40	0.7465028	1.9003567	0.0	3.8851527E-04	0.016	1688	tags=45%, list=11%, signal=50%
WP_COMPLEMENT_SYSTEM	47	0.7347429	1.8942397	0.0	4.5119316E-04	0.019	1855	tags=51%, list=12%, signal=58%
WP_COPPER_HOMEOSTASIS	50	0.72367305	1.8936822	0.0	4.432775E-04	0.019	873	tags=26%, list=6%, signal=27%
WP_RAS_AND_BRADYKININ_PATHWAYS_IN_COVID19	15	0.87957615	1.8903635	0.0	5.2885624E-04	0.022	763	tags=60%, list=5%, signal=63%
WP_SMALL_CELL_LUNG_CANCER	87	0.6594188	1.8804467	0.0	6.9777877E-04	0.03	2322	tags=43%, list=15%, signal=50%
WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONAVIRUSES_MAPK_SIGNALING	33	0.7507818	1.8785032	0.0	6.8614905E-04	0.03	1713	tags=39%, list=11%, signal=44%
WP_TYROBP_CAUSAL_NETWORK_IN_MICROGLIA	37	0.75591224	1.8768034	0.0	7.4110203E-04	0.033	1909	tags=43%, list=12%, signal=49%
WP_PROTEASOME_DEGRADATION	60	0.69659036	1.8741941	0.0	7.706627E-04	0.035	2538	tags=43%, list=16%, signal=52%
WP_MALIGNANT_PLEURAL_MESOTHELIOMA	355	0.5844303	1.8740658	0.0	7.5842993E-04	0.035	1889	tags=25%, list=12%, signal=28%
WP_IL4_SIGNALING_PATHWAY	45	0.7293307	1.8731518	0.0	7.4657943E-04	0.035	2177	tags=49%, list=14%, signal=57%
WP_OXIDATIVE_DAMAGE_RESPONSE	36	0.74541193	1.8729957	0.0	7.350936E-04	0.035	1840	tags=42%, list=12%, signal=47%
WP_NUCLEOTIDEBINDING_OLIGOMERIZATION_DOMAIN_NOD_PATHWAY	29	0.7766107	1.8703796	0.0	7.850783E-04	0.038	1864	tags=41%, list=12%, signal=47%
WP_TCELL_ACTIVATION_SARSCOV2	57	0.6945776	1.870083	0.0	7.733607E-04	0.038	2159	tags=44%, list=14%, signal=51%
WP_MONOAMINE_TRANSPORT	24	0.8145303	1.8481959	0.0	0.0014609734	0.073	583	tags=29%, list=4%, signal=30%

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WP_INTERLEUKIN1_IL1_STRUCTURAL_PATHWAY	46	0.70582145	1.8447814	0.0	0.001608931	0.082	1480	tags=33%, list=10%, signal=36%
WP_TOLLLIKE_RECEPTOR_SIGNALING_RELATED_TO_MXD88	25	0.7909123	1.8427594	0.0	0.0017363471	0.09	1864	tags=56%, list=12%, signal=64%
WP_ARYL_HYDROCARBON_RECEPTOR_PATHWAY_WP2873	28	0.7691323	1.8377645	0.0	0.0019163375	0.101	1579	tags=43%, list=10%, signal=48%
WP_P53_TRANSCRIPTIONAL_GENE_NETWORK	60	0.6803107	1.8333062	0.0	0.002092862	0.111	1250	tags=27%, list=8%, signal=29%
WP_TCELL_ANTIGEN_RECEPTOR_TCR_PATHWAY_DURING_STAPHYLOCOCCUS_AUREUS_INFECTION	43	0.72721136	1.8311056	0.0015128592	0.00213672	0.115	1877	tags=35%, list=12%, signal=40%
WP_DEVELOPMENT_AND_HETEROGENEITY_OF_THE_ILC_FAMILY	18	0.8514459	1.8310802	0.0	0.0021078456	0.115	572	tags=44%, list=4%, signal=46%
WP_SARS_CORONAVIRUS_AND_INNATE_IMMUNITY	16	0.85216695	1.8307209	0.0	0.0020797409	0.115	1005	tags=63%, list=7%, signal=67%
WP_INTERACTIONS_BETWEEN_IMMUNE_CELLS_AND_MICRORNAS_IN_TUMOR_MICROENVIRONMENT	15	0.867825	1.8227766	0.0017123288	0.002330436	0.13	598	tags=47%, list=4%, signal=49%
WP_16P112_DISTAL_DELETION_SYNDROME	22	0.7948648	1.8179435	0.0016611295	0.002434724	0.137	1451	tags=41%, list=9%, signal=45%
WP_INTERLEUKIN11_SIGNALING_PATHWAY	41	0.71838546	1.8166027	0.0	0.0025028368	0.142	2206	tags=44%, list=14%, signal=51%
WP_OVERVIEW_OF_NANOPARTICLE_EFFECTS	15	0.85610974	1.8136523	0.0	0.0026397721	0.151	828	tags=47%, list=5%, signal=49%
WP_KYNURENINE_PATHWAY_AND_LINKS_TO_CELL_SENESCENCE	17	0.815249	1.8111843	0.0	0.0026884428	0.155	572	tags=35%, list=4%, signal=37%
WP_RAC1PAK1P38MMP2_PATHWAY	58	0.6912336	1.8091458	0.0	0.0028036505	0.16	2482	tags=41%, list=16%, signal=49%
WP_MITOCHONDRIAL_IMMUNE_RESPONSE_TO_SARSCOV2	24	0.7867584	1.8051873	0.0	0.0030454542	0.174	492	tags=29%, list=3%, signal=30%
WP_IL7_SIGNALING_PATHWAY	22	0.7961588	1.8041968	0.0016393443	0.0031371878	0.182	1534	tags=50%, list=10%, signal=55%
WP_IL1_AND_MEGAKARYOCYTES_IN_OBESITY	16	0.8367271	1.7895049	0.0	0.0040906304	0.23	607	tags=50%, list=4%, signal=52%
WP_TRYPTOPHAN_METABOLISM	25	0.76520467	1.7867551	0.001618123	0.004199801	0.235	439	tags=28%, list=3%, signal=29%

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WP_TGFBETA_RECEPTOR_SIGNALING	46	0.69577706	1.7866969	0.0014619883	0.0041657547	0.235	1105	tags=30%, list=7%, signal=33%
WP_VITAMIN_D_IN_INFLAMMATORY_DISEASES	22	0.7806111	1.7828939	0.0032626428	0.004421795	0.248	1365	tags=41%, list=9%, signal=45%
WP_RELATIONSHIP_BETWEEN_INFLAMMATION_COX2_AND_EGFR	20	0.7908796	1.7783753	0.0032467532	0.0047783284	0.272	1002	tags=30%, list=6%, signal=32%
WP_PI3KAKTMTOR_VITD3_SIGNALING	17	0.80475545	1.775132	0.0	0.004888491	0.278	1534	tags=47%, list=10%, signal=52%
WP_STING_PATHWAY_IN_KAWASAKILIKE_DISEASE_AND_COVID19	17	0.8221489	1.7693853	0.0	0.005433562	0.304	1514	tags=53%, list=10%, signal=59%
WP_MODULATORS_OF_TCR_SIGNALING_AND_T_CELL_ACTIVATION	42	0.6892324	1.768283	0.0	0.0054318346	0.308	1930	tags=38%, list=13%, signal=43%
WP_RESISTIN_AS_A_REGULATOR_OF_INFLAMMATION	27	0.748449	1.7617979	0.0065897857	0.0061074435	0.345	1181	tags=30%, list=8%, signal=32%
WP_OLIGODENDROCYTE_SPECIFICATION_AND_DIFFERENTIATION_LEADING_TO_MYELIN_COMPONENTS_FOR_CNS	28	0.7313474	1.7615058	0.0015527951	0.0060558245	0.345	734	tags=25%, list=5%, signal=26%
WP_TGFBETA_RECEPTOR_SIGNALING_IN_SKELETAL_DYSPLASIAS	49	0.6826367	1.7512733	0.0	0.0071718376	0.404	1105	tags=29%, list=7%, signal=31%
WP_ARYL_HYDROCARBON_RECEPTOR_PATHWAY_WP2586	41	0.68494356	1.749191	0.00147929	0.0072780517	0.412	1579	tags=34%, list=10%, signal=38%
WP_TRANSCRIPTION_FACTOR_REGULATION_IN_ADIPOGENESIS	17	0.80529857	1.7428292	0.0	0.007959309	0.44	922	tags=29%, list=6%, signal=31%
WP_PROLACTIN_SIGNALING_PATHWAY	67	0.6355698	1.7421681	0.0013477089	0.007932079	0.44	1688	tags=33%, list=11%, signal=37%
WP_LEPTIN_SIGNALING_PATHWAY	72	0.62663645	1.7415162	0.0	0.007944842	0.444	2590	tags=35%, list=17%, signal=42%
WP_ZINC_HOMEOSTASIS	29	0.7164053	1.7414311	0.0015384615	0.007890857	0.445	995	tags=45%, list=6%, signal=48%
WP_PI3KAKT_SIGNALING_PATHWAY	238	0.5476732	1.7377964	0.0	0.008274985	0.465	2422	tags=33%, list=16%, signal=38%
WP_FOCAL_ADHESION	161	0.56180054	1.735664	0.0	0.008528019	0.48	2072	tags=30%, list=13%, signal=34%
WP_AGERAGE_PATHWAY	57	0.6463289	1.7347735	0.0014814815	0.0085974345	0.489	2131	tags=32%, list=14%, signal=37%

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WP_METABOLISM_OF_SPINGOLIPIDS_IN_ER_AND_GOLGI_APPARATUS	18	0.7739115	1.733022	0.001666667	0.008757096	0.497	434	tags=22%, list=3%, signal=23%
WP_IL2_SIGNALING_PATHWAY	34	0.69560665	1.7281932	0.0060698027	0.009345271	0.523	2159	tags=47%, list=14%, signal=55%
WP_DNA_DAMAGE_RESPONSE_ONLY_ATM_DEPENDENT	95	0.5959135	1.7208059	0.0	0.010347939	0.559	1688	tags=28%, list=11%, signal=32%
WP_NEOVASCULARISATION_PROCESSES	31	0.71770763	1.7206157	0.0015243902	0.010273997	0.56	1574	tags=39%, list=10%, signal=43%
WP_UNFOLDED_PROTEIN_RESPONSE	24	0.74902576	1.7167554	0.011075949	0.01073494	0.581	2124	tags=42%, list=14%, signal=48%
WP_NAD_BIOSYNTHETIC_PATHWAYS	21	0.7524537	1.7131215	0.0049342103	0.011138227	0.601	322	tags=19%, list=2%, signal=19%
WP_NAD_METABOLISM_IN_ONCOGENEINDUCED_SENESCENCE_AND_MITOCHONDRIAL_DYSFUNCTIONASSOCIATED_SENESCENCE	22	0.75470716	1.7122788	0.0033670033	0.011218798	0.604	1561	tags=36%, list=10%, signal=40%
WP_TGFBETA_SIGNALING_PATHWAY	123	0.5788204	1.7072226	0.0	0.011921808	0.633	1556	tags=28%, list=10%, signal=30%
WP_MICROGLIA_PATHOGEN_PHAGOCYTOSIS_PATHWAY	20	0.765763	1.707069	0.008250825	0.011838201	0.634	1271	tags=40%, list=8%, signal=44%
WP_WHITE_FAT_CELL_DIFFERENTIATION	24	0.74538434	1.7043871	0.006535948	0.012227738	0.65	1345	tags=33%, list=9%, signal=36%
WP_COMPLEMENT_AND_COAGULATION_CASCADES	31	0.7088154	1.6994889	0.001497006	0.012773982	0.666	968	tags=39%, list=6%, signal=41%
WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONAVIRUSES_APOPTOSIS	17	0.76820004	1.6966451	0.0032948928	0.013137995	0.681	1646	tags=35%, list=11%, signal=39%
WP_CIRCADIAN_RHYTHM_GENES	151	0.5578142	1.695207	0.0	0.01333652	0.69	2438	tags=28%, list=16%, signal=33%
WP_SUDDEN_INFANT_DEATH_SYNDROME_SIDS_SUSCEPTIBILITY_PATHWAYS	120	0.5684004	1.6841302	0.0	0.015516482	0.744	1556	tags=22%, list=10%, signal=24%
WP_BLADDER_CANCER	38	0.6779362	1.6758355	0.0030721966	0.017376743	0.797	1603	tags=32%, list=10%, signal=35%
WP_VEGFAVEGFR2_SIGNALING_PATHWAY	392	0.5102096	1.6751335	0.0	0.017443066	0.798	2569	tags=32%, list=17%, signal=37%
WP_FAS_LIGAND_PATHWAY_AND_STRESS_INDUCED_HEAT_SHOCK_PROTEINS	40	0.6606856	1.6730505	0.0061068702	0.017744701	0.805	1646	tags=28%, list=11%, signal=31%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
WP_NONALCOHOLIC_FATTY_LIVER_DISEASE	138	0.5636175	1.6708754	0.0	0.018016294	0.812	1181	tags=15%, list=8%, signal=16%
WP_TP53_NETWORK	16	0.7703647	1.6672356	0.013605442	0.0186729	0.823	2086	tags=50%, list=14%, signal=58%
WP_MAMMARY_GLAND_DEVELOPMENT_PATHWAY_PREGNANCY_AND_LACTATION_STAGE_3_OF_4	20	0.7406678	1.6475257	0.011744967	0.023873953	0.891	1447	tags=45%, list=9%, signal=50%
WP_GPCRS_CLASS_A_RHODOPSINLIKE	60	0.6040587	1.6462532	0.009459459	0.023990309	0.892	927	tags=23%, list=6%, signal=25%
WP_NETRINUNC5B_SIGNALING_PATHWAY	44	0.6408413	1.6401695	0.0057636886	0.025722146	0.908	873	tags=18%, list=6%, signal=19%
WP_PDGF_PATHWAY	39	0.64215994	1.6357043	0.014619883	0.026954645	0.919	1005	tags=23%, list=7%, signal=25%
WP_PDGFRBETA_PATHWAY	29	0.6759458	1.6316621	0.018927446	0.02786297	0.928	1688	tags=34%, list=11%, signal=39%
WP_MATRIX_METALLOPROTEINASES	17	0.7523358	1.6300045	0.010416667	0.028207548	0.93	754	tags=35%, list=5%, signal=37%
WP_NRP1TRIGGERED_SIGNALING_PATHWAYS_IN_PANCREATIC_CANCER	46	0.6205853	1.6277413	0.0073206443	0.028646626	0.936	1995	tags=33%, list=13%, signal=37%
WP_CCL18_SIGNALING_PATHWAY	40	0.6499133	1.6275649	0.010719755	0.028485691	0.936	1657	tags=40%, list=11%, signal=45%
WP_IL3_SIGNALING_PATHWAY	39	0.64902073	1.6089721	0.018099548	0.03504387	0.967	1688	tags=33%, list=11%, signal=37%
WP_B_CELL_RECEPTOR_SIGNALING_PATHWAY	78	0.5675189	1.5991452	0.008108108	0.038854055	0.979	2058	tags=31%, list=13%, signal=35%
WP_COMPLEMENT_SYSTEM_IN_NEURONAL_DEVELOPMENT_AND_PLASTICITY	74	0.5809284	1.5990539	0.014986376	0.038630117	0.979	1271	tags=26%, list=8%, signal=28%
WP_INTERFERON_TYPE_I_SIGNALING_PATHWAYS	48	0.6167446	1.5960311	0.007518797	0.0395745	0.979	1365	tags=29%, list=9%, signal=32%
WP_ALZHEIMERS_DISEASE	212	0.51283616	1.5950574	0.0011415525	0.03963491	0.982	2892	tags=30%, list=19%, signal=37%
WP_PROSTAGLANDIN_SYNTHESIS_AND_REGULATION	33	0.6469734	1.5942667	0.012383901	0.039654814	0.982	1746	tags=36%, list=11%, signal=41%
WP_EPO_RECEPTOR_SIGNALING	22	0.7114379	1.5918862	0.012618297	0.04040636	0.984	2131	tags=41%, list=14%, signal=47%

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
WP_SPHINGOLIPID_METABOLISM_OVERVIEW	20	0.70340496	1.5904427	0.03508772	0.04065786	0.985	733	tags=20%, list=5%, signal=21%
WP_P38_MAPK_SIGNALING_PATHWAY	34	0.6342597	1.577959	0.018461538	0.04572554	0.989	2567	tags=44%, list=17%, signal=53%
WP_ALZHEIMERS_DISEASE_AND_MIRNA_EFFECTS	218	0.49975726	1.569135	0.0	0.04940418	0.992	2892	tags=30%, list=19%, signal=37%
WP_KIT_RECEPTOR_SIGNALING_PATHWAY	50	0.59421355	1.5683656	0.02349486	0.049443617	0.993	2159	tags=32%, list=14%, signal=37%

Primary Progressive MS

NAME	SIZE	ES	NES	NOM p-val	FDR q-val	FWER p-val	RANK AT MAX	LEADING EDGE
WP_NETWORK_MAP_OF_SARSCOV2_SIGNALING_PATHWAY	140	0.8416743	2.5171986	0.0	0.0	0.0	667	tags=36%, list=5%, signal=37%
WP_SARSCOV2_INNATE_IMMUNITY_EVASION_AND_CELLSPECIFIC_IMMUNE_RESPONSE	49	0.88678324	2.3178513	0.0	0.0	0.0	538	tags=43%, list=4%, signal=44%
WP_IL18_SIGNALING_PATHWAY	205	0.72652644	2.2894146	0.0	0.0	0.0	640	tags=21%, list=5%, signal=22%
WP_APOPTOSIS	72	0.8129227	2.27818	0.0	0.0	0.0	1027	tags=42%, list=7%, signal=45%
WP_OVERVIEW_OF_PROINFLAMMATORY_AND_PROFIBROTIC_MEDIATORS	41	0.887834	2.2694774	0.0	0.0	0.0	351	tags=54%, list=3%, signal=55%
WP_BURN_WOUND_HEALING	68	0.81056124	2.2403815	0.0	0.0	0.0	531	tags=34%, list=4%, signal=35%
WP_MEASLES_VIRUS_INFECTION	98	0.7623948	2.2009072	0.0	0.0	0.0	1027	tags=33%, list=7%, signal=35%
WP_TYPE_II_INTERFERON_SIGNALING_IFNG	25	0.9486619	2.1853225	0.0	0.0	0.0	493	tags=80%, list=4%, signal=83%
WP_ALLOGRAFT_REJECTION	47	0.8455913	2.1823392	0.0	0.0	0.0	544	tags=36%, list=4%, signal=38%
WP_TCELL_RECEPTOR_TCR_SIGNALING_PATHWAY	61	0.7891795	2.1414387	0.0	0.0	0.0	804	tags=28%, list=6%, signal=29%
WP_PHOTODYNAMIC_THERAPYINDUCED_NFKB_SURVIVAL_SIGNALING	31	0.89161384	2.1293588	0.0	0.0	0.0	916	tags=58%, list=7%, signal=62%

WP_CYTOSOLIC_DNASENSING_PATHWAY	50	0.81605256	2.1234808	0.0	0.0	0.0	696	tags=34%, list=5%, signal=36%
WP_LUNG_FIBROSIS	41	0.84290576	2.1137254	0.0	0.0	0.0	328	tags=29%, list=2%, signal=30%
WP_IMMUNE_RESPONSE_TO_TUBERCULOSIS	22	0.92937315	2.111819	0.0	0.0	0.0	555	tags=77%, list=4%, signal=80%
WP_TNFALPHA_SIGNALING_PATHWAY	85	0.74036115	2.0909088	0.0	0.0	0.0	1049	tags=26%, list=8%, signal=28%
WP_TOLLLIKE_RECEPTOR_SIGNALING_PATHWAY	68	0.76582175	2.0847425	0.0	0.0	0.0	1034	tags=31%, list=8%, signal=33%
WP_APOPTOSIS_MODULATION_AND_SIGNALING	77	0.74818736	2.0831509	0.0	0.0	0.0	1027	tags=38%, list=7%, signal=40%
WP_NOVEL_INTRACELLULAR_COMPONENTS_OF_RIGLIKE_RECEPTOR_RLR_PATHWAY	47	0.8094212	2.075123	0.0	0.0	0.0	640	tags=32%, list=5%, signal=33%
WP_MIRNAS_INVOLVEMENT_IN_THE_IMMUNE_RESPONSE_IN_SEPSIS	30	0.86675507	2.0737503	0.0	0.0	0.0	352	tags=40%, list=3%, signal=41%
WP_VITAMIN_D_RECEPTOR_PATHWAY	87	0.73197633	2.066398	0.0	0.0	0.0	601	tags=21%, list=4%, signal=21%
WP_VITAMIN_B12_METABOLISM	35	0.8421994	2.0618591	0.0	0.0	0.0	640	tags=31%, list=5%, signal=33%
WP_CHEMOKINE_SIGNALING_PATHWAY	108	0.70350134	2.0607824	0.0	0.0	0.0	749	tags=20%, list=5%, signal=21%
WP_PHOTODYNAMIC_THERAPYINDUCED_HIF1_SURVIVAL_SIGNALING	33	0.8322947	2.050077	0.0	0.0	0.0	1018	tags=52%, list=7%, signal=55%
WP_FOLATE_METABOLISM	46	0.80652153	2.0428612	0.0	0.0	0.0	640	tags=28%, list=5%, signal=30%
WP_PROTEASOME_DEGRADATION	60	0.75099	2.02764	0.0	0.0	0.0	2933	tags=77%, list=21%, signal=97%
WP_TYPE_I_INTERFERON_INDUCED_SIGNALING_DURING_SARSCOV2_INFECTION	24	0.88251954	2.0214198	0.0	4.8184156E-05	0.001	555	tags=58%, list=4%, signal=61%
WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONAVIRUSES_INTERFERON_INDUCTION	32	0.835198	2.0213861	0.0	4.639956E-05	0.001	1027	tags=53%, list=7%, signal=57%
WP_APOPTOSISRELATED_NETWORK_DUE_TO_ALTERED_NOTCH3_IN_OVARIAN_CANCER	51	0.7617436	2.0083542	0.0	9.085628E-05	0.002	1055	tags=35%, list=8%, signal=38%
WP_PROSTAGLANDIN_SIGNALING	16	0.94332325	2.000777	0.0	8.77233E-05	0.002	300	tags=56%, list=2%, signal=57%

WP_NONGENOMIC_ACTIONS_OF_125_DIHYDROXYVITAMIN_D3	57	0.7561014	1.9950103	0.0	8.479919E-05	0.002	994	tags=32%, list=7%, signal=34%
WP_SELENIUM_MICRONUTRIENT_NETWORK	62	0.7449754	1.9938995	0.0	8.2063736E-05	0.002	1240	tags=31%, list=9%, signal=34%
WP_COMPLEMENT_SYSTEM	42	0.78402674	1.9899573	0.0	7.9499245E-05	0.002	1006	tags=38%, list=7%, signal=41%
WP_GLUCOCORTICOID_RECEPTOR_PATHWAY	54	0.7465056	1.9831179	0.0	1.1667203E-04	0.003	1283	tags=31%, list=9%, signal=35%
WP_ONCOSTATIN_M_SIGNALING_PATHWAY	59	0.72570574	1.9765967	0.0	1.1324051E-04	0.003	749	tags=32%, list=5%, signal=34%
WP_NUCLEOTIDEBINDING_OLIGOMERIZATION_DOMAIN_NOD_PATHWAY	28	0.8285788	1.9694114	0.0	1.47181E-04	0.004	640	tags=29%, list=5%, signal=30%
WP_ANTIVIRAL_AND_ANTIINFLAMMATORY_EFFECTS_OF_NRF2_ON_SARSCOV2_PATHWAY	24	0.85284495	1.9599752	0.0	1.4309265E-04	0.004	1101	tags=42%, list=8%, signal=45%
WP_SIGNAL_TRANSDUCTION_THROUGH_IL1R	30	0.8199004	1.9494619	0.0	1.3922527E-04	0.004	804	tags=33%, list=6%, signal=35%
WP_TCELL_ACTIVATION_SARSCOV2	56	0.72800475	1.9483792	0.0	1.3556145E-04	0.004	804	tags=20%, list=6%, signal=21%
WP_MITOCHONDRIAL_IMMUNE_RESPONSE_TO_SARSCOV2	23	0.8367052	1.9326507	0.0	2.3397E-04	0.007	315	tags=30%, list=2%, signal=31%
WP_EBOLA_VIRUS_INFECTION_IN_HOST	110	0.6485406	1.9188993	0.0	3.2436053E-04	0.01	1883	tags=33%, list=14%, signal=38%
WP_PHOTODYNAMIC_THERAPYINDUCED_API_SURVIVAL_SIGNALING	43	0.7486892	1.9147198	0.0	3.526586E-04	0.011	1200	tags=30%, list=9%, signal=33%
WP_TNFRRELATED_WEAK_INDUCER_OF_APOPTOSIS_TWEAK_SIGNALING_PATHWAY	38	0.779679	1.9084976	0.0	3.733337E-04	0.012	1027	tags=39%, list=7%, signal=43%
WP_OXIDATIVE_DAMAGE_RESPONSE	35	0.77613264	1.9069188	0.0	3.6465153E-04	0.012	1027	tags=29%, list=7%, signal=31%
WP_16P112_DISTAL_DELETION_SYNDROME	22	0.83339775	1.8949335	0.0	5.100415E-04	0.017	767	tags=32%, list=6%, signal=34%
WP_EBSTEINBARR_VIRUS_LMP1_SIGNALING	21	0.82765347	1.8890151	0.0	5.8683654E-04	0.02	640	tags=29%, list=5%, signal=30%
WP_THYMIC_STROMAL_LYMPHOPOIETIN_TSLP_SIGNALING_PATHWAY	36	0.7578614	1.881513	0.0	7.7176205E-04	0.027	675	tags=28%, list=5%, signal=29%
WP_TLR4_SIGNALING_AND_TOLERANCE	25	0.8056947	1.8719863	0.0	9.775457E-04	0.035	1665	tags=44%, list=12%, signal=50%

WP_STING_PATHWAY_IN_KAWASAKILIKE_DISEASE_AND_COVID19	16	0.87520766	1.8679901	0.0	0.001041217	0.038	640	tags=44%, list=5%, signal=46%
WP_VITAMIN_D_IN_INFLAMMATORY_DISEASES	22	0.8327733	1.867988	0.0	0.0010199677	0.038	640	tags=32%, list=5%, signal=33%
WP_IL1_AND_MEGAKARYOCYTES_IN_OBESITY	15	0.8838434	1.8678564	0.0	9.995683E-04	0.038	276	tags=47%, list=2%, signal=48%
WP_UNFOLDED_PROTEIN_RESPONSE	23	0.82790565	1.8662845	0.0	0.0010574518	0.04	1442	tags=48%, list=10%, signal=53%
WP_PHOTODYNAMIC_THERAPYINDUCED_UNFOLDED_PROTEIN_RESPONSE	25	0.79761046	1.8658231	0.0	0.0010371162	0.04	2033	tags=64%, list=15%, signal=75%
WP_TCELL_ANTIGEN_RECEPTOR_TCR_PATHWAY_DURING_STAPHYLOCOCCUS_AUREUS_INFECTION	40	0.7505919	1.8657905	0.0	0.0010175479	0.04	804	tags=20%, list=6%, signal=21%
WP_RANKLRANK_SIGNALING_PATHWAY	49	0.71255153	1.8639175	0.0	0.0010473524	0.042	1027	tags=24%, list=7%, signal=26%
WP_ACUTE_VIRAL_MYOCARDITIS	61	0.692687	1.8583726	0.001490313	0.0011940836	0.049	1731	tags=31%, list=13%, signal=35%
WP_SARS_CORONAVIRUS_AND_INNATE_IMMUNITY	16	0.85238194	1.8566206	0.0018083183	0.0011949668	0.05	1246	tags=69%, list=9%, signal=75%
WP_NUCLEAR_RECEPTORS_METAPATHWAY	203	0.59417003	1.8520473	0.0	0.0013332726	0.056	1340	tags=23%, list=10%, signal=25%
WP_FIBRIN_COMPLEMENT_RECEPTOR_3_SIGNALING_PATHWAY	28	0.77863115	1.848092	0.0	0.0014012238	0.06	640	tags=21%, list=5%, signal=22%
WP_HEPATITIS_B_INFECTION	122	0.62947035	1.845948	0.0	0.0014642744	0.063	1731	tags=28%, list=13%, signal=32%
WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONAVIRUSES_APOPTOSIS	17	0.8394602	1.8346934	0.0	0.0018807881	0.083	972	tags=29%, list=7%, signal=32%
WP_DEVELOPMENT_AND_HETEROGENEITY_OF_THE_ILC_FAMILY	15	0.8654187	1.834636	0.003552398	0.0018499555	0.083	303	tags=20%, list=2%, signal=20%
WP_MONOAMINE_TRANSPORT	20	0.8178208	1.828873	0.0	0.0020575777	0.094	446	tags=30%, list=3%, signal=31%
WP_IL6_SIGNALING_PATHWAY	38	0.7210324	1.8256203	0.0015948963	0.0022083637	0.103	994	tags=29%, list=7%, signal=31%
WP_RAC1PAK1P38MMP2_PATHWAY	58	0.6790569	1.8200969	0.0	0.0025438587	0.12	852	tags=22%, list=6%, signal=24%
WP_ADIPOGENESIS	92	0.6265392	1.8190545	0.0	0.0025444985	0.122	636	tags=17%, list=5%, signal=18%

WP_FAS_LIGAND_PATHWAY_AND_STRESS_INDUCTION_OF_HEAT_SHOCK_PROTEINS	39	0.7332509	1.8166662	0.0	0.0025059455	0.122	804	tags=23%, list=6%, signal=24%
WP_SMALL_CELL_LUNG_CANCER	86	0.6373817	1.8160564	0.0	0.0024685434	0.122	1958	tags=34%, list=14%, signal=39%
WP_INTERLEUKIN1_IL1_STRUCTURAL_PATHWAY	47	0.69847184	1.812858	0.0	0.0025096752	0.126	1049	tags=26%, list=8%, signal=28%
WP_IL4_SIGNALING_PATHWAY	43	0.71433264	1.8088355	0.0	0.0026211268	0.134	994	tags=33%, list=7%, signal=35%
WP_HOSTPATHOGEN_INTERACTION_OF_HUMAN_CORONAVIRUSES_MAPK_SIGNALING	32	0.7421328	1.8037353	0.0	0.0028862753	0.149	968	tags=25%, list=7%, signal=27%
WP_COMPLEMENT_AND_COAGULATION_CASCADES	26	0.7642463	1.8006864	0.0016920473	0.003028475	0.156	328	tags=31%, list=2%, signal=31%
WP_INTERLEUKIN11_SIGNALING_PATHWAY	38	0.716571	1.7989442	0.0	0.0031917891	0.164	1292	tags=32%, list=9%, signal=35%
WP_IL1_SIGNALING_PATHWAY	53	0.6685488	1.7892919	0.0	0.0038209558	0.198	1034	tags=21%, list=8%, signal=22%
WP_COMPLEMENT_SYSTEM_IN_NEURONAL_DEVELOPMENT_AND_PLASTICITY	68	0.66363156	1.7844312	0.0015197569	0.0040876204	0.211	817	tags=24%, list=6%, signal=25%
WP_SPINAL_CORD_INJURY	83	0.62409294	1.7763811	0.001490313	0.0049236743	0.25	831	tags=18%, list=6%, signal=19%
WP_HEPATITIS_C_AND_HEPATOCELLULAR_CARCINOMA	43	0.68602586	1.7687712	0.0	0.0055072624	0.273	1122	tags=33%, list=8%, signal=35%
WP_OREXIN_RECEPTOR_PATHWAY	98	0.61324763	1.767521	0.0	0.005573579	0.279	1020	tags=22%, list=7%, signal=24%
WP_TP53_NETWORK	15	0.81734264	1.7516785	0.003539823	0.0073940363	0.352	984	tags=40%, list=7%, signal=43%
WP_TOLLLIKE_RECEPTOR_SIGNALING_RELATED_TO_MYD88	23	0.7812039	1.7515047	0.0036036037	0.0073004407	0.352	1665	tags=52%, list=12%, signal=59%
WP_IL2_SIGNALING_PATHWAY	34	0.7091808	1.7449714	0.0015673981	0.008013962	0.387	994	tags=26%, list=7%, signal=28%
WP_OVERVIEW_OF_NANOPARTICLE_EFFECTS	15	0.82280076	1.7420025	0.0018726592	0.008286352	0.399	551	tags=20%, list=4%, signal=21%
WP_NAD_METABOLISM_IN_ONCOGENEINDUCED_SENESCENCE_AND_MITOCHONDRIAL_DYSFUNCTIONASSOCIATED_SENESCENCE	22	0.7687842	1.7408184	0.00528169	0.008318337	0.405	640	tags=18%, list=5%, signal=19%
WP_CCL18_SIGNALING_PATHWAY	37	0.68905634	1.7312636	0.0	0.009528425	0.456	747	tags=30%, list=5%, signal=31%

WP_ARYL_HYDROCARBON_RECEPTOR_PATHWAY_WP2873	27	0.7291863	1.7254555	0.0015923567	0.010161928	0.481	1200	tags=33%, list=9%, signal=36%
WP_NANOMATERIAL_INDUCED_APOPTOSIS	18	0.7906475	1.7169679	0.003322259	0.011364071	0.521	1887	tags=44%, list=14%, signal=51%
WP_NAD_METABOLISM	16	0.80757487	1.7121116	0.0	0.012195611	0.547	401	tags=25%, list=3%, signal=26%
WP_HEMATOPOIETIC_STEM_CELL_DIFFERENTIATION	30	0.71321356	1.7044069	0.006557377	0.013501813	0.586	394	tags=17%, list=3%, signal=17%
WP_NONALCOHOLIC_FATTY_LIVER_DISEASE	135	0.5638652	1.6965148	0.0	0.01526785	0.638	1018	tags=15%, list=7%, signal=16%
WP_MODULATORS_OF_TCR_SIGNALING_AND_T_CELL_ACTIVATION	39	0.67137116	1.6957729	0.0031948881	0.015260222	0.64	640	tags=15%, list=5%, signal=16%
WP_KYNURENINE_PATHWAY_AND_LINKS_TO_CELL_SENESCENCE	15	0.7933575	1.687665	0.013769363	0.016534481	0.673	26	tags=13%, list=0%, signal=13%
WP_MALIGNANT_PLEURAL_MESOTHELIOMA	328	0.51164377	1.6818203	0.0	0.017922623	0.699	1707	tags=21%, list=12%, signal=24%
WP_MAPK_SIGNALING_PATHWAY	184	0.53175616	1.678627	0.0	0.018383017	0.711	1253	tags=16%, list=9%, signal=18%
WP_METABOLISM_OF_SPINGOLIPIDS_IN_ER_AND_GOLGI_APPARATUS	19	0.7766539	1.6786227	0.006956522	0.018185351	0.711	336	tags=21%, list=2%, signal=22%
WP_TRANSCRIPTION_FACTOR_REGULATION_IN_ADIPOGENESIS	17	0.7785656	1.6752648	0.0050675673	0.018690156	0.725	636	tags=29%, list=5%, signal=31%
WP_AGERAGE_PATHWAY	53	0.6364072	1.6690569	0.0031397175	0.020156985	0.75	804	tags=26%, list=6%, signal=28%
WP_P53_TRANSCRIPTIONAL_GENE_NETWORK	57	0.62446505	1.6677601	0.0061068702	0.020317603	0.758	515	tags=18%, list=4%, signal=18%
WP_MAMMARY_GLAND_DEVELOPMENT_PATHWAY_PREGNANCY_AND_LACTATION_STAGE_3_OF_4	20	0.7537799	1.6676412	0.0051020407	0.020163873	0.759	1200	tags=40%, list=9%, signal=44%
WP_VEGFAVEGFR2_SIGNALING_PATHWAY	382	0.4989007	1.6596291	0.0	0.022132237	0.795	2287	tags=33%, list=17%, signal=38%
WP_MIRNA_REGULATION_OF_DNA_DAMAGE_RESPONSE	64	0.5960593	1.6577069	0.004464286	0.022532197	0.808	3529	tags=53%, list=26%, signal=71%
WP_PDGF_PATHWAY	38	0.66102004	1.6527823	0.0065897857	0.02356589	0.83	994	tags=21%, list=7%, signal=23%
WP_PI3KAKTMTOR_VITD3_SIGNALING	17	0.7430973	1.6513274	0.017825311	0.023784863	0.835	640	tags=29%, list=5%, signal=31%

WP_DNA_IRDAMAGE_AND_CELLULAR_RESPONSE_VIA_ATR	79	0.5823581	1.6494387	0.0	0.024180366	0.843	3441	tags=41%, list=25%, signal=54%
WP_AMYOTROPHIC_LATERAL_SCLEROSIS_ALS	34	0.6891976	1.6483077	0.01309329	0.024367742	0.85	1622	tags=26%, list=12%, signal=30%
WP_PROLACTIN_SIGNALING_PATHWAY	67	0.5993038	1.6470913	0.007788162	0.024513533	0.855	1143	tags=28%, list=8%, signal=31%
WP_TGFBETA_RECEPTOR_SIGNALING_IN_SKELETAL_DYSPLASIAS	48	0.6319827	1.6363595	0.009375	0.02759889	0.891	1006	tags=29%, list=7%, signal=31%
WP_TYPE_I_COLLAGEN_SYNTHESIS_IN_THE_CONTEXT_OF_OSTEOGENESIS_IMPERFECTA	24	0.6946014	1.6335548	0.015100671	0.028209673	0.902	2614	tags=46%, list=19%, signal=56%
WP_TYROBP_CAUSAL_NETWORK_IN_MICROGLIA	31	0.68184906	1.6248558	0.012924071	0.030999875	0.92	2293	tags=39%, list=17%, signal=46%
WP_DNA_DAMAGE_RESPONSE	61	0.60051996	1.6230221	0.007342144	0.03121458	0.922	3529	tags=54%, list=26%, signal=72%
WP_IL17_SIGNALING_PATHWAY	26	0.70150435	1.6203731	0.015652174	0.031880267	0.93	1027	tags=27%, list=7%, signal=29%
WP_ALZHEIMERS_DISEASE	210	0.51152414	1.6105969	0.0	0.035045013	0.951	1892	tags=25%, list=14%, signal=29%
WP_APOPTOSIS_MODULATION_BY_HSP70	18	0.74467534	1.6095091	0.01431127	0.03512027	0.954	1887	tags=50%, list=14%, signal=58%
WP_NOCGMPPKG_MEDIATED_NEUROPROTECTION	29	0.6923494	1.6069976	0.006655574	0.03589534	0.955	640	tags=17%, list=5%, signal=18%
WP_TGFBETA_RECEPTOR_SIGNALING	46	0.6223683	1.604408	0.018062398	0.03645236	0.956	1006	tags=28%, list=7%, signal=30%
WP_COPPER_HOMEOSTASIS	49	0.61135375	1.6004493	0.009375	0.037858542	0.96	1757	tags=33%, list=13%, signal=37%
WP_MATRIX_METALLOPROTEINASES	15	0.76553136	1.5998932	0.01438849	0.037699807	0.96	282	tags=27%, list=2%, signal=27%
WP_DNA_REPLICATION	40	0.6325976	1.5949621	0.009022556	0.039485663	0.966	3285	tags=63%, list=24%, signal=82%
WP_NUCLEOTIDE_METABOLISM	17	0.73090875	1.5937599	0.019784173	0.0396792	0.968	1794	tags=53%, list=13%, signal=61%
WP_ARYL_HYDROCARBON_RECEPTOR_PATHWAY_WP2586	39	0.64031965	1.5916295	0.014586709	0.040290836	0.971	1210	tags=26%, list=9%, signal=28%
WP_P38_MAPK_SIGNALING_PATHWAY	32	0.65098786	1.5827457	0.014950166	0.043665115	0.98	968	tags=22%, list=7%, signal=23%

WP_NETRINUNC5B_SIGNALING_PATHWAY	42	0.62896085	1.5825516	0.0097402595	0.04333469	0.98	804	tags=19%, list=6%, signal=20%
WP_NEUROINFLAMMATION_AND_GLUTAMATERGIC_SIGNALING	105	0.5432094	1.5797768	0.0	0.044114888	0.982	1355	tags=23%, list=10%, signal=25%
WP_TGFBETA_SIGNALING_PATHWAY	121	0.52736664	1.5664101	0.0013986015	0.04976126	0.989	1772	tags=29%, list=13%, signal=33%
WP_RESISTIN_AS_A_REGULATOR_OF_INFLAMMATION	27	0.66892076	1.5653554	0.020066889	0.04986163	0.989	879	tags=19%, list=6%, signal=20%