

Table S6. ClueGO analysis of the BeadArray analysis in CD45⁺ cells isolated from *HBUS* polyps compared with unaffected proximal cecum

GO term	GO levels	GO groups	Number of genes	% associated genes	Term p-value	Term p-value corrected with Benjamini and Hochberg
cell activation	[3]	[Group3]	28	4.3209877	2.20325E-15	8.51924E-14
regulation of immune system process	[2, 3]	[Group3]	31	4.1059604	2.39633E-16	1.38987E-14
positive regulation of immune system process	[2, 3, 4]	[Group3]	24	5.084746	7.41507E-15	1.7203E-13
regulation of leukocyte activation	[3, 4, 5]	[Group2, Group3]	18	5.4216866	6.73134E-12	1.11548E-10
cellular protein modification process	[5, 6]	[Group3]	27	1.2162162	0.001421906	0.002390451
protein phosphorylation	[6, 7]	[Group1, Group3]	18	1.8218623	8.6142E-05	0.000212606
phosphorus metabolic process	[3]	[Group3]	28	1.3182675	0.00032174	0.00064348
apoptotic process	[5]	[Group0, Group6]	23	1.6511127	4.3055E-05	0.000128061
response to stress	[2]	[Group11]	41	1.663286	1.84774E-08	1.19076E-07
defense response	[3]	[Group11]	27	2.9063509	7.93643E-11	9.20626E-10
inflammatory response	[4]	[Group11]	16	3.5874438	3.78664E-08	2.31184E-07
immune response	[2]	[Group3]	39	4.785276	6.76247E-23	7.84447E-21
cell communication	[3]	[Group3]	53	1.0849539	8.99437E-05	0.000217364
cell adhesion	[2, 3]	[None]	19	2.183908	4.41252E-06	1.76501E-05
signal transduction	[3, 4]	[Group3]	51	1.1713367	1.58363E-05	5.40296E-05
cell surface receptor signaling pathway	[4, 5]	[Group3]	33	1.16649	0.000841894	0.001525932
multicellular organismal development	[2, 3]	[Group4]	49	1.2515965	3.89755E-06	1.6745E-05
cell death	[3]	[Group6]	24	1.6161616	4.10982E-05	0.000125458
cell proliferation	[2]	[Group2]	21	1.5261627	0.000277015	0.00056375
response to wounding	[3]	[Group11]	22	2.9490616	3.92457E-09	3.035E-08
response to bacterium	[3, 4]	[Group11]	18	4.245283	3.71002E-10	3.58635E-09
tissue development	[3]	[None]	17	1.1378849	0.018956411	0.026816387
regulation of signal transduction	[3, 4, 5]	[Group0, Group3, Group8]	26	1.4985591	6.93715E-05	0.000178824
positive regulation of signal transduction	[3, 4, 5, 6]	[Group0, Group10, Group3, Group6]	15	1.7942584	0.000380566	0.000748232

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response to organic substance	[3]	[Group10]	29	1.609323	6.51873E-06	2.43927E-05
regulation of cell communication	[3, 4]	[Group0, Group3, Group8]	28	1.4155713	9.68949E-05	0.000220388
regulation of cell death	[3, 4]	[Group6]	17	1.5260323	0.001029729	0.001782814
regulation of phosphate metabolic process	[5, 6]	[Group3, Group8]	19	1.6964285	0.000141304	0.000298023
regulation of metabolic process	[2, 3]	[Group3]	47	1.0322864	0.000889362	0.001587169
protein metabolic process	[3, 4]	[Group3]	37	1	0.006308821	0.009382349
regulation of signaling	[2, 3]	[Group0, Group3, Group8]	28	1.4205986	9.11282E-05	0.000215732
regulation of cellular metabolic process	[3, 4]	[Group3]	41	0.9982956	0.004012414	0.006205867
regulation of cellular protein metabolic process	[4, 5, 6]	[Group1, Group3]	16	1.4096916	0.00316694	0.005102292
regulation of localization	[2, 3]	[Group1, Group3]	19	1.3798112	0.001770293	0.00289231
intracellular signal transduction	[4, 5]	[Group0, Group3]	27	1.489	0.000	0.000
T cell activation	[4, 6]	[Group3]	21	6.442	0.000	0.000
regulation of cell proliferation	[3, 4]	[Group2, Group3]	17	1.540	0.001	0.002
response to chemical stimulus	[2]	[Group10]	41	1.197	0.000	0.000
homeostatic process	[3]	[Group7]	17	1.324	0.005	0.007
regulation of apoptotic process	[5, 6]	[Group6]	16	1.505	0.002	0.003
positive regulation of molecular function	[3]	[Group8]	17	1.974	0.000	0.000
cellular metabolic process	[2]	[Group3]	66	0.837	0.016	0.023
cellular catabolic process	[3]	[None]	15	1.125	0.028	0.039
cellular protein metabolic process	[4, 5]	[Group3]	30	1.024	0.010	0.015
small molecule metabolic process	[3]	[Group9]	19	1.094	0.020	0.028

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single organism signaling	[2]	[Group3]	53	1.111	0.000	0.000
single-multicellular organism process	[2]	[Group4]	64	1.067	0.000	0.000
single-organism cellular process	[2]	[Group3]	94	0.971	0.000	0.000
single-organism transport	[2, 3, 4]	[Group1]	27	1.149	0.003	0.005
single-organism developmental process	[2]	[Group4, Group5]	43	1.165	0.000	0.000
lymphocyte activation	[3, 5]	[Group3]	23	4.782	0.000	0.000
organ development	[3, 4, 5]	[Group4]	39	1.501	0.000	0.000
positive regulation of biological process	[1, 2, 3]	[Group3]	51	1.514	0.000	0.000
negative regulation of biological process	[1, 2, 3]	[Group3, Group5]	39	1.278	0.000	0.000
positive regulation of cellular process	[2, 3, 4]	[Group3]	43	1.431	0.000	0.000
negative regulation of cellular process	[2, 3, 4]	[Group3, Group5]	35	1.265	0.000	0.000
hematopoietic or lymphoid organ development	[3, 4, 5, 6]	[Group3]	15	2.396	0.000	0.000
regulation of response to stimulus	[2, 3]	[Group3]	41	1.854	0.000	0.000
positive regulation of response to stimulus	[2, 3, 4]	[Group0, Group3]	27	2.379	0.000	0.000
negative regulation of response to stimulus	[2, 3, 4]	[Group3]	18	2.267	0.000	0.000
system development	[3, 4]	[Group4]	45	1.325	0.000	0.000
anatomical structure development	[2]	[Group4]	51	1.287	0.000	0.000
cellular developmental process	[2, 3]	[Group4]	38	1.277	0.000	0.000
cell motility	[2, 3, 4]	[None]	17	1.912	0.000	0.000
regulation of immune response	[3, 4]	[Group3]	18	4.545	0.000	0.000
positive regulation of immune response	[3, 4, 5]	[Group3]	16	5.517	0.000	0.000

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regulation of biological process	[1, 2]	[Group3]	84	0.987	0.000	0.000
regulation of catalytic activity	[3, 4]	[Group3, Group8]	18	1.564	0.001	0.001
regulation of developmental process	[2, 3]	[Group4, Group5]	23	1.492	0.000	0.000
regulation of cellular process	[2, 3]	[Group3]	76	0.945	0.000	0.000
establishment of localization	[1, 2]	[Group1]	32	1.060	0.005	0.007
regulation of multicellular organismal process	[2, 3]	[Group3, Group5]	32	1.642	0.000	0.000
regulation of protein metabolic process	[4, 5]	[Group3]	20	1.484	0.001	0.001
regulation of lymphocyte activation	[4, 5, 6]	[Group3]	16	5.654	0.000	0.000
response to other organism	[2, 3]	[Group11]	21	3.344	0.000	0.000
cellular response to stimulus	[2, 3]	[Group3]	62	1.177	0.000	0.000
regulation of macromolecule metabolic process	[3, 4]	[Group3]	36	0.907	0.030	0.041
regulation of biological quality	[2]	[Group7]	28	1.212	0.001	0.002
regulation of molecular function	[2]	[Group3, Group8]	22	1.429	0.000	0.001
cellular response to chemical stimulus	[3, 4]	[Group10]	23	1.704	0.000	0.000
regulation of primary metabolic process	[3, 4]	[Group3]	41	1.006	0.003	0.005
regulation of response to stress	[3, 4]	[Group11]	15	2.304	0.000	0.000
organonitrogen compound metabolic process	[3]	[Group9]	16	1.200	0.014	0.020
response to oxygen-containing compound	[3]	[Group0, Group10]	16	1.633	0.001	0.001

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regulation of multicellular organismal development	[3, 4]	[Group5]	21	1.724	0.000	0.000