

Table S5 GO Analysis of Genes

Gene_set	Term	Overlap	P-value	Adjusted P count	Odds Ratio	Combined Genes
GO_Biolog	neutrophil	48/481	1.54E-21	1.46E-18	48	6.546896 313.7603 SERPINB10;MS4A3;TNFAIP6;CRISP3;HP;RETN;GPR84;SLC2A5;ABCA13;MPO;PLAU;STBD1;CLEC5A;STOM;S100A12;OLR1;CPNE3;CTSG;PGLYRP1;GYG1;ELANE;CAMP;CD177;ATP8B4;ANXA3;DEFA4;MCEMP1;AZU1;RNASE3;DEFA1;OLFM4;MMP8;MMP9;CHIT1;CEACAM1;NFASC;VNN1;TCN1;CEACAM6;TARM1;LCN2;CHI3L1;PRTN3;BPI;PTX3;CEACAM8;S100A8;LTF
GO_Biolog	neutrophil	48/485	2.19E-21	1.46E-18	48	6.485619 308.536 SERPINB10;MS4A3;TNFAIP6;CRISP3;HP;RETN;GPR84;SLC2A5;ABCA13;MPO;PLAU;STBD1;CLEC5A;STOM;S100A12;OLR1;CPNE3;CTSG;PGLYRP1;GYG1;ELANE;CAMP;CD177;ATP8B4;ANXA3;DEFA4;MCEMP1;AZU1;RNASE3;DEFA1;OLFM4;MMP8;MMP9;CHIT1;CEACAM1;NFASC;VNN1;TCN1;CEACAM6;TARM1;LCN2;CHI3L1;PRTN3;BPI;PTX3;CEACAM8;S100A8;LTF
GO_Biolog	neutrophil	48/488	2.84E-21	1.46E-18	48	6.440392 304.696 SERPINB10;MS4A3;TNFAIP6;CRISP3;HP;RETN;GPR84;SLC2A5;ABCA13;MPO;PLAU;STBD1;CLEC5A;STOM;S100A12;OLR1;CPNE3;CTSG;PGLYRP1;GYG1;ELANE;CAMP;CD177;ATP8B4;ANXA3;DEFA4;MCEMP1;AZU1;RNASE3;DEFA1;OLFM4;MMP8;MMP9;CHIT1;CEACAM1;NFASC;VNN1;TCN1;CEACAM6;TARM1;LCN2;CHI3L1;PRTN3;BPI;PTX3;CEACAM8;S100A8;LTF
GO_Biolog	defense re:	17/176	3.54E-08	1.37E-05	17	5.846866 100.3114 ANXA3;DEFA4;DEFA3;LPO;RNASE3;AZU1;DEFA1;MPO;LCN2;S100A12;CTSG;BPI;PGLYRP1;S100A8;ELANE;CAMP;LTF
GO_Biolog	defense re:	10/73	9.87E-07	0.000305	10	8.554812 118.3033 DEFA4;DEFA3;CTSG;BPI;RNASE3;AZU1;DEFA1;CAMP;ELANE;LTF
GO_Biolog	antibacteri	7/44	1.57E-05	0.003028	7	10.12627 112.0225 DEFA4;DEFA3;CTSG;DEFA1;RNASE3;CAMP;LTF
GO_Biolog	antimicrob	8/64	2.42E-05	0.004146	8	7.659883 81.4291 DEFA4;S100A12;DEFA3;RNASE3;DEFA1;PGLYRP1;CAMP;LTF
GO_Biolog	defense re:	4/33	0.000941	0.112819	4	10.6271 74.0518 DEFA4;S100A12;S100A8;LTF
GO_Biolog	defense re:	6/70	0.001941	0.214092	6	4.99736 31.20563 DEFA4;DEFA3;RNASE3;DEFA1;PGLYRP1;CAMP
GO_Biolog	endoderm	4/36	0.004378	0.305799		6.637873 36.05197 INHBA;MMP8;SOX7;MMP9
GO_Biolog	regulation	4/43	0.008283	0.456771		5.444514 26.09828 EPHA7;CEACAM1;FUT4;FSTL3