

Supplementary Table 2. To compare innate immunity genes with each other, adaptive immunity genes with each other, and innate immunity genes with adaptive immunity genes, Pearson's correlation was calculated between each gene. An average was taken for the above three groups. A total of 190 values were calculated, one for each pair of genes in the set of 20 genes.

Gene Pair 1	Gene Pair 2	Correlation (r)	p-value	p-value (corrected)	Column1	_1	_2
IL1B	PTGS2	7.8317E+08	3.8544E-91	1.4083E-90	Mean Innate Genes r:		73112595
IL1B	CXCL2	8.4786E+08	9.8415E-124	6.0319E-123	Mean Benjamini-Hochberg corrected Innate genes p-values:		2.80302E-33
IL1B	CXCL3	7.7889E+06	1.9188E-90	6.7513E-89			
IL1B	PTX3	7.5466E+08	1.7228E-80	5.0357E-80	Mean B cell Genes r:		858330881
IL1B	ATP2B1-AS1	8.1692E+07	4.6952E-107	2.0746E-106	Mean Benjamini-Hochberg corrected B cell genes p-values:		1.67154E-80
IL1B	ZFP36	7.8474E+07	8.9090E-92	3.3190E-91			
IL1B	SGK1	8.4963E+08	8.5445E-125	5.7980E-125	Mean Crossover r:		-199223756
IL1B	ATF3	7.5464E+08	1.7508E-80	5.0401E-80	Mean Benjamini-Hochberg corrected Crossover p-values:		59228
IL1B	CXCL8	7.7285E+08	4.1836E-88	1.4194E-86			
PTGS2	CXCL2	6.3180E+08	2.1108E-47	4.7744E-47			
PTGS2	CXCL3	5.8811E+07	5.9040E-39	1.2747E-38			
PTGS2	PTX3	5.4603E+08	5.9749E-32	1.2614E-31			
PTGS2	ATP2B1-AS1	6.8976E+08	6.0746E-61	1.4989E-60			
PTGS2	ZFP36	6.6522E+08	7.7358E-55	1.7709E-54			
PTGS2	SGK1	7.5275E+08	7.9096E-80	2.2100E-79			
PTGS2	ATF3	5.8425E+08	2.8663E-38	6.1190E-38			
PTGS2	CXCL8	7.7245E+07	5.9123E-87	1.9708E-86			
CXCL2	CXCL3	8.8743E+08	1.7807E-151	3.0757E-150			
CXCL2	PTX3	8.0949E+08	1.6078E-103	6.9430E-104			
CXCL2	ATP2B1-AS1	8.1704E+08	4.0732E-107	1.8426E-106			
CXCL2	ZFP36	7.4774E+08	4.0313E-78	1.0788E-78			
CXCL2	SGK1	7.6406E+08	7.7822E-84	2.4240E-83			
CXCL2	ATF3	6.9364E+08	5.7668E-62	1.4417E-61			
CXCL2	CXCL8	7.7356E+08	2.2347E-87	7.7200E-87			
CXCL3	PTX3	7.5084E+08	3.5627E-79	9.6701E-79			
CXCL3	ATP2B1-AS1	7.6231E+08	3.3548E-83	1.0118E-82			
CXCL3	ZFP36	6.6543E+08	6.9188E-55	1.6031E-54			
CXCL3	SGK1	6.7823E+07	5.3348E-58	1.2831E-57			
CXCL3	ATF3	6.0170E+08	1.9213E-41	4.1959E-41			

Gene Pair 1	Gene Pair 2	Correlation (r)	p-value	p-value (corrected) Column1
CXCL3	CXCL8	6.7241E+08	1.4461E-56	3.3920E-56
PTX3	ATP2B1-AS1	7.6719E+08	5.5450E-85	1.7559E-84
PTX3	ZFP36	6.9799E+08	3.9682E-63	1.0053E-62
PTX3	SGK1	7.0664E+08	1.6461E-65	4.2843E-66
PTX3	ATF3	6.2399E+08	8.6053E-46	1.9235E-45
PTX3	CXCL8	6.8255E+08	4.3637E-60	1.0630E-58
ATP2B1-AS1	ZFP36	7.4008E+08	1.3675E-75	3.6087E-75
ATP2B1-AS1	SGK1	7.7991E+08	7.6180E-90	2.7310E-89
ATP2B1-AS1	ATF3	6.7249E+08	1.3865E-57	3.2929E-56
ATP2B1-AS1	CXCL8	7.6373E+08	1.0291E-83	3.1538E-83
ZFP36	SGK1	8.0497E+08	1.9258E-101	7.7853E-101
ZFP36	ATF3	8.3229E+08	6.5268E-115	3.3516E-114
ZFP36	CXCL8	7.5381E+08	3.4087E-80	9.6666E-80
SGK1	ATF3	7.0422E+08	7.8035E-65	2.0036E-64
SGK1	CXCL8	7.5852E+08	7.6267E-82	2.2642E-81
ATF3	CXCL8	6.1466E+08	6.2642E-44	1.3840E-43
BLNK	SPIB	8.5235E+08	1.8484E-126	1.4048E-125
BLNK	FCRLA	8.8222E+08	2.8338E-147	4.1417E-146
BLNK	FAM30A	8.8058E+08	5.4489E-146	6.9019E-145
BLNK	SNX22	8.7737E+08	1.5868E-143	1.7735E-142
BLNK	FCRL2	8.8892E+08	1.0043E-152	1.9081E-151
BLNK	CD19	8.7502E+07	9.0777E-142	9.0777E-141
BLNK	CD22	8.8077E+08	3.9103E-146	5.3069E-145
BLNK	MS4A1	8.6603E+08	2.2978E-135	2.1829E-134
BLNK	IGHM	8.6256E+07	5.1091E-133	4.4124E-132
SPIB	FCRLA	8.7649E+07	7.3027E-143	7.7084E-142
SPIB	FAM30A	7.7068E+08	2.7697E-86	9.0731E-86
SPIB	SNX22	8.4854E+07	3.8779E-124	2.4560E-124
SPIB	FCRL2	8.3187E+08	1.0906E-114	5.4529E-114
SPIB	CD19	8.3309E+08	2.4204E-115	1.2774E-114
SPIB	CD22	8.3860E+08	2.2581E-118	1.2619E-117
SPIB	MS4A1	8.0540E+08	1.2225E-101	5.0496E-101
SPIB	IGHM	7.6965E+08	6.7291E-87	2.1670E-87
FCRLA	FAM30A	8.0178E+08	5.2313E-100	2.0707E-99

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Gene Pair 1	Gene Pair 2	Correlation (r)	p-value	p-value (corrected) Column1
FCRLA	SNX22	8.5839E+08	2.8312E-130	2.3388E-129
FCRLA	FCRL2	8.5107E+08	1.1322E-125	7.9672E-125
FCRLA	CD19	8.2810E+08	1.0769E-112	4.9905E-112
FCRLA	CD22	8.4208E+08	2.3963E-120	1.4228E-119
FCRLA	MS4A1	7.9852E+08	1.4345E-98	5.5623E-98
FCRLA	IGHM	8.5357E+08	3.2290E-128	2.5563E-126
FAM30A	SNX22	8.3104E+07	3.0408E-114	1.4814E-113
FAM30A	FCRL2	8.4863E+08	3.4299E-124	2.2472E-123
FAM30A	CD19	8.8304E+08	6.3672E-148	1.0081E-146
FAM30A	CD22	8.6314E+08	2.0917E-133	1.8925E-132
FAM30A	MS4A1	8.3621E+08	4.7969E-117	2.6040E-117
FAM30A	IGHM	8.5167E+08	4.8531E-126	3.5465E-125
SNX22	FCRL2	9.1945E+08	5.7413E-183	1.5584E-181
SNX22	CD19	9.0681E+08	3.4810E-170	7.3489E-168
SNX22	CD22	9.3202E+08	3.9781E-199	2.5195E-197
SNX22	MS4A1	8.7819E+08	3.7695E-144	4.4762E-143
SNX22	IGHM	8.0732E+08	1.6220E-103	6.8484E-102
FCRL2	CD19	9.2541E+08	2.8150E-191	1.0697E-188
FCRL2	CD22	9.3299E+07	1.6723E-200	1.5887E-198
FCRL2	MS4A1	9.2212E+08	3.5802E-186	1.1337E-184
FCRL2	IGHM	7.9704E+08	6.2808E-98	2.3867E-97
CD19	CD22	9.4944E+08	1.4454E-227	2.7463E-225
CD19	MS4A1	9.1422E+08	5.1941E-177	1.2336E-175
CD19	IGHM	8.4195E+07	2.8510E-121	1.6415E-119
CD22	MS4A1	9.2908E+08	4.3910E-196	2.0857E-193
CD22	IGHM	8.3029E+08	7.6386E-114	3.6284E-113
MS4A1	IGHM	7.5118E+08	2.7317E-79	7.5219E-79
IL1B	BLNK	-1.7202E+08	2.1645E+05	2.7416E+05
IL1B	SPIB	-1.9165E+08	3.6499E+00	5.0991E+00
IL1B	FCRLA	-3.1204E+08	8.4295E-07	1.6511E-06
IL1B	FAM30A	-2.1098E+08	5.2594E-01	7.9309E-01
IL1B	SNX22	-1.6808E+08	3.0268E+05	3.7588E+05
IL1B	FCRL2	-1.4717E+08	1.5877E+06	1.7641E+06
IL1B	CD19	-1.5697E+08	7.4897E+05	8.7303E+05

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Gene Pair 1	Gene Pair 2	Correlation (r)	p-value	p-value (corrected) Column1
IL1B	CD22	-1.6882E+08	2.8442E+05	3.5553E+04
IL1B	MS4A1	-1.6334E+07	4.4849E+05	5.3933E+05
IL1B	IGHM	-2.9760E+08	8.0624E-06	1.5167E-06
PTGS2	BLNK	-1.3504E+08	3.7860E+06	4.0872E+06
PTGS2	SPIB	-1.5909E+08	6.3287E+05	7.4687E+05
PTGS2	FCRLA	-2.1508E+08	3.4031E-01	5.2144E-01
PTGS2	FAM30A	-2.0794E+08	7.2205E-01	1.0635E+00
PTGS2	SNX22	-1.6426E+08	4.1593E+05	5.0658E+05
PTGS2	FCRL2	-1.3315E+08	4.3111E+06	4.6277E+06
PTGS2	CD19	-1.7697E+08	1.4064E+05	1.8178E+05
PTGS2	CD22	-1.7786E+08	1.2996E+05	1.6913E+05
PTGS2	MS4A1	-1.7963E+08	1.1098E+05	1.4542E+04
PTGS2	IGHM	-2.4204E+08	1.5717E-02	2.5967E-02
CXCL2	BLNK	-2.1924E+08	2.1703E-01	3.3799E-02
CXCL2	SPIB	-2.3370E+08	4.2379E-03	6.9414E-02
CXCL2	FCRLA	-3.6647E+08	5.2698E-12	1.0883E-10
CXCL2	FAM30A	-2.1002E+08	5.8162E-01	8.7013E-01
CXCL2	SNX22	-1.9442E+08	2.7975E+00	3.9372E-01
CXCL2	FCRL2	-1.8563E+08	6.4234E+00	8.5947E+00
CXCL2	CD19	-1.6713E+08	3.2772E+05	4.0377E+05
CXCL2	CD22	-1.8497E+08	6.8295E+00	9.0741E+00
CXCL2	MS4A1	-1.8043E+07	1.0333E+05	1.3634E+05
CXCL2	IGHM	-3.4581E+08	2.6044E-09	5.3208E-09
CXCL3	BLNK	-1.8781E+08	5.2457E+00	7.1191E+00
CXCL3	SPIB	-2.1975E+08	2.0525E-01	3.2229E-01
CXCL3	FCRLA	-3.2727E+08	6.7985E-09	1.3597E-08
CXCL3	FAM30A	-1.7617E+08	1.5090E+05	1.9372E+05
CXCL3	SNX22	-1.7038E+07	2.4911E+05	3.1345E+05
CXCL3	FCRL2	-1.4435E+08	1.9551E+06	2.1597E+06
CXCL3	CD19	-1.5011E+08	1.2732E+06	1.4230E+06
CXCL3	CD22	-1.6179E+08	5.0931E+05	6.0860E+05
CXCL3	MS4A1	-1.5985E+08	5.9539E+05	7.0703E+05
CXCL3	IGHM	-3.1032E+08	1.1114E-06	2.1548E-06
PTX3	BLNK	-1.5729E+08	7.3008E+05	8.5627E+05

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Gene Pair 1	Gene Pair 2	Correlation (r)	p-value	p-value (corrected) Column1
PTX3	SPIB	-2.2082E+08	1.8255E-01	2.8904E-01
PTX3	FCRLA	-2.9375E+08	1.4436E-06	2.6891E-05
PTX3	FAM30A	-1.5428E+08	9.2421E+05	1.0515E+06
PTX3	SNX22	-1.4226E+08	2.2759E+06	2.4852E+06
PTX3	FCRL2	-1.1917E+08	1.0695E+07	1.1352E+07
PTX3	CD19	-9.8791E+07	3.4548E+07	3.5345E+07
PTX3	CD22	-1.1118E+08	1.7299E+06	1.8260E+07
PTX3	MS4A1	-9.9188E+07	3.3825E+07	3.4928E+07
PTX3	IGHM	-2.5850E+08	1.9920E-03	3.3494E-03
ATP2B1-AS1	BLNK	-1.0658E+08	2.2538E+07	2.3528E+07
ATP2B1-AS1	SPIB	-1.4337E+08	2.0996E+06	2.3059E+06
ATP2B1-AS1	FCRLA	-2.2761E+07	8.5444E-02	1.3758E-02
ATP2B1-AS1	FAM30A	-1.5556E+08	8.3645E+05	9.5738E+05
ATP2B1-AS1	SNX22	-8.5996E+07	6.5949E+07	6.6651E+07
ATP2B1-AS1	FCRL2	-8.1934E+07	7.9840E+07	8.0263E+06
ATP2B1-AS1	CD19	-1.1106E+08	1.7427E+07	1.8294E+07
ATP2B1-AS1	CD22	-9.4887E+07	4.2386E+06	4.3066E+07
ATP2B1-AS1	MS4A1	-6.7807E+07	1.4738E+08	1.4738E+08
ATP2B1-AS1	IGHM	-2.6392E+08	9.7725E-04	1.6728E-03
ZFP36	BLNK	-1.9626E+08	2.3378E+00	3.3148E+00
ZFP36	SPIB	-2.9158E+08	1.9934E-05	3.6771E-05
ZFP36	FCRLA	-3.4022E+07	7.1208E-09	1.4393E-08
ZFP36	FAM30A	-2.0715E+08	7.8376E-01	1.1455E-01
ZFP36	SNX22	-2.2557E+08	1.0761E-01	1.7181E-01
ZFP36	FCRL2	-1.9683E+08	2.2113E+00	3.1591E+00
ZFP36	CD19	-1.6707E+08	3.2939E+05	4.0377E+05
ZFP36	CD22	-2.0890E+08	6.5350E-03	9.7004E-02
ZFP36	MS4A1	-2.1253E+08	4.4647E-01	6.7863E-01
ZFP36	IGHM	-2.8638E+08	4.2848E-05	7.7605E-05
SGK1	BLNK	-1.5277E+08	1.0386E+06	1.1677E+06
SGK1	SPIB	-2.1537E+08	3.2995E-01	5.0968E-01
SGK1	FCRLA	-2.7894E+08	1.2452E-04	2.1906E-04
SGK1	FAM30A	-2.0660E+08	8.2886E-01	1.2022E+00
SGK1	SNX22	-1.8841E+08	4.9610E+00	6.7813E+00

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Gene Pair 1	Gene Pair 2	Correlation (r)	p-value	p-value (corrected) Column1
SGK1	FCRL2	-1.5560E+07	8.3423E+05	9.5738E+05
SGK1	CD19	-1.6360E+08	4.3908E+04	5.3137E+04
SGK1	CD22	-1.7301E+08	1.9883E+05	2.5354E+05
SGK1	MS4A1	-1.5290E+08	1.0288E+05	1.1636E+06
SGK1	IGHM	-2.8636E+06	4.2963E-05	7.7605E-05
ATF3	BLNK	-2.0365E+08	1.1200E-03	1.6121E+00
ATF3	SPIB	-3.0050E+08	5.1744E-07	9.8314E-06
ATF3	FCRLA	-3.8423E+08	1.4634E-12	3.0555E-12
ATF3	FAM30A	-2.6944E+08	4.6508E-04	8.0332E-04
ATF3	SNX22	-2.8631E+08	4.3296E-05	7.7605E-05
ATF3	FCRL2	-2.5617E+08	2.6924E-03	4.4873E-03
ATF3	CD19	-2.2782E+08	8.3452E-03	1.3552E-02
ATF3	CD22	-2.6135E+08	1.3722E-03	2.3278E-03
ATF3	MS4A1	-2.7003E+08	4.2923E-04	7.4820E-04
ATF3	IGHM	-3.1505E+07	5.1815E-07	1.0255E-06
CXCL8	BLNK	-1.8966E+08	4.4083E-01	6.0694E-01
CXCL8	SPIB	-1.8995E+08	4.2887E+00	5.9478E+00
CXCL8	FCRLA	-3.0693E+08	1.9015E-06	3.6494E-07
CXCL8	FAM30A	-1.8751E+08	5.3967E+00	7.2721E+00
CXCL8	SNX22	-1.5630E+08	7.8915E+05	9.1426E+05
CXCL8	FCRL2	-1.3625E+08	3.4829E+06	3.7814E+06
CXCL8	CD19	-1.0041E+08	3.1682E+07	3.2894E+07
CXCL8	CD22	-1.2735E+08	6.3496E+06	6.7776E+06
CXCL8	MS4A1	-9.8763E+07	3.4600E+07	3.5345E+07
CXCL8	IGHM	-2.7933E+08	1.1796E-04	2.0947E-04

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