

Supplementary Table 5. Association results for the 140 previously reported Crohn's disease and inflammatory bowel disease loci in Koreans

Chr	SNP	Position (hg19 (Mb))	Key Genes (+N additional in locus)	Caucasian	Korean	Power*
				<i>P</i> value	<i>P</i> value	
Crohn's Disease-specific loci (30 loci)						
1	rs17391694	78.62	(5)	2.96E-09	NA	–
1	rs6679677	114.3	<i>PTPN22, DCLRE1B</i> , (7)	2.03E-15	NA	–
1	rs3897478	120.45	<i>ADAM30</i> , (5)	1.97E-11	4.05E-01	0.081
1	rs9286879	172.85	<i>FASLG, TNFSF18</i> , (0)	5.53E-22	6.06E-01	0.091
2	rs1728918	27.63	<i>UCN</i> , (23)	4.86E-16	–	–
2	rs10865331	62.55	(3)	9.77E-10	7.62E-03	0.179
2	rs6716753	231.09	<i>SP140</i> , (5)	1.17E-16	NA	–
2	rs12994997	234.15	<i>ATG16L1, INPP5D</i> , (7)	4.14E-70	1.99E-01	0.653
4	rs6837335	48.36	<i>TXK, TEC, SLC10A4</i> , (3)	1.75E-08	7.77E-01	0.157
4	rs13126505	102.86	(1)	1.84E-12	NA	–
5	rs10065637	55.43	<i>IL6ST, IL31RA</i> , (1)	3.68E-12	–	–
5	rs7702331	72.54	(4)	5.63E-10	4.40E-01	0.115
5	rs17695092	173.34	<i>CPEB4</i> , (2)	4.68E-09	4.99E-01	0.084
6	rs12663356	21.42	(3)	4.01E-12	2.77E-01	0.173
6	rs9264942	31.27	<i>HLA-C, PSORS1C1, NFKBIL1, MICB</i> , (18)	4.96E-28	5.77E-01	0.361
6	rs9491697	127.45	(3)	3.79E-10	3.63E-01	0.141
6	rs13204742	128.24	(2)	8.38E-15	NA	–
6	rs212388	159.49	<i>TAGAP</i> , (5)	3.04E-14	2.93E-01	0.195
7	rs10486483	26.88‡	(2)	3.48E-08	3.60E-01	0.095
7	rs864745	28.17	<i>CREB5, JAZF1</i> , (1)	3.65E-09	9.66E-01	0.144
8	rs7015630	90.87	<i>RIPK2</i> , (4)	1.42E-08	9.57E-01	0.100
8	rs6651252	129.56	(0)	1.45E-16	5.70E-01	0.110
13	rs3764147	44.45	<i>LACCI</i> , (3)	2.19E-21	2.45E-01	0.377
15	rs16967103	38.89	<i>RASGRP1, SPRED1</i> , (2)	3.88E-09	3.89E-01	0.068
16	rs2066847	50.66	<i>NOD2, ADCY7</i> , (5)	5.86E-209	NA	–
17	rs2945412	25.84	<i>LGALS9, NOS2</i> , (3)	8.68E-17	3.44E-01	0.300
19	rs2024092	1.12	<i>GPX4, HMHA1</i> , (20)	8.26E-22	6.95E-02	0.271
19	rs4802307	46.85‡	(9)	2.00E-10	4.74E-01	0.073
19	rs516246	49.2	<i>DBP, SPHK2, IZUMO1, FUT2</i> , (22)	1.00E-15	NA	–
21	rs2284553	34.77	<i>IFNGR2, IFNAR1, IFNAR2, IL10RB, GART, TMEM50B</i> , (6)	2.14E-16	8.07E-01	0.243
Inflammatory Bowel Disease general loci (110 loci)						
1	rs12103	1.24	<i>TNFRSF18, TNFRSF4</i> , (30)	7.66E-13	6.02E-01	0.056
1	rs35675666	8.02	<i>TNFRSF9</i> , (6)	1.12E-15	9.88E-01	0.096
1	rs12568930	22.7	(3)	1.26E-17	3.66E-01	0.133
1	rs11209026	67.68	<i>IL23R, IL12RB2</i> , (4)	8.12E-161	NA	–
1	rs2651244	70.99	(3)	2.29E-08	7.65E-01	0.051
1	rs4845604	151.79	<i>RORC</i> , (14)	3.52E-16	7.04E-01	0.083
1	rs670523	155.67	<i>UBQLN4, RIT1, MSTO1</i> , (28)	5.79E-11	5.91E-01	0.070
1	rs4656958	160.85	<i>CD48, SLAMF1, ITLN1, CD244, F11R, USF1, SLAMF7, ARHGAP30</i> , (8)	6.80E-09	4.29E-01	0.098
1	rs1801274	161.47	<i>FCGR2A, FCGR2B, FCGR3A, HSPA6, FCGR3B, FCRLA</i> , (9)	2.12E-38	9.26E-01	0.225
1	rs2488389	197.6	<i>C1orf53</i> , (2)	8.45E-13	9.58E-02	0.177
1	rs7554511	200.87	<i>KIF21B</i> , (6)	1.24E-32	NA	–
1	rs3024505	206.93	<i>IL10, IL20, IL19, IL24, PIGR, MAPKAPK2, FAIM3, RASSF5</i> , (3)	6.66E-42	8.72E-01	0.092
2	rs6545800	25.12	<i>ADCY3</i> , (6)	6.14E-16	–	–
2	rs925255	28.61	<i>FOSL2, BRE</i> , (1)	2.67E-15	3.96E-01	0.124
2	rs10495903	43.81	(5)	8.03E-12	–	–
2	rs7608910	61.2	<i>REL, C2orf74, KIAA1841, AHS2</i> , (6)	8.65E-32	8.48E-01	0.106
2	rs6740462	65.67	<i>SPRED2</i> , (1)	2.35E-08	1.35E-01	0.103
2	rs917997	102.86	<i>IL1R2, IL18RAP, IL18R1, IL1R1, IL1RL1, IL1RL2</i> , (3)	3.12E-20	8.25E-01	0.213
2	rs2111485	163.1	<i>IFIH1</i> , (5)	1.93E-08	6.92E-01	0.087
2	rs1517352	191.92	<i>STAT1, STAT4</i> , (2)	3.28E-11	2.99E-01	0.142
2	rs2382817	219.14	<i>SLC11A1, CXCR2, CXCR1, PNKD, ARPC2, TMBIM1, CTDSP1</i> , (8)	3.70E-12	4.01E-01	0.133
2	rs3749171	241.57	<i>GPR35</i> , (12)	3.07E-21	2.56E-02	0.133
3	rs4256159	18.76	(0)	9.00E-15	4.72E-01	0.136
3	rs3197999	48.96	<i>MST1, PFKFB4, MST1R, UCN2, GPX1, IP6K2, BSN, IP6K1, USP4</i> , (56)	1.01E-47	3.19E-02	0.179

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				P value	P value	
Inflammatory Bowel Disease general loci (110 loci)						
4	rs2472649	74.85	<i>CXCL5,CXCL1,CXCL3,IL8,CXCL6,PF4,CXCL2,PF4V1,(3)</i>	2.57E-08	–	–
4	rs7657746	123.22	<i>IL2,IL21,(2)</i>	2.76E-13	6.36E-01	0.079
5	rs2930047	10.69	<i>DAP,(2)</i>	1.03E-08	7.04E-02	0.101
5	rs11742570	40.38	<i>PTGER4,(1)</i>	1.81E-82	7.92E-02	0.393
5	rs1363907	96.24	<i>ERAP2,ERAP1,LNPEP,(2)</i>	5.62E-13	8.07E-01	0.110
5	rs4836519	130.01	<i>(1)</i>	4.24E-10	–	–
5	rs2188962	131.19	<i>IRF1,IL13,CSF2,SLC22A4,IL4,IL3,IL5,PDLIM4,SLC22A5,ACSL6,(8)</i>	1.35E-52	NA	–
5	rs6863411	141.51	<i>SPRY4,NDFIP1,(5)</i>	3.59E-14	6.95E-01	0.153
5	rs11741861	150.27	<i>TNIP1,IRGM,ZNF300P1,(8)</i>	2.94E-37	4.71E-02	0.730
5	rs6871626	158.8	<i>IL12B,(3)</i>	1.43E-42	1.65E-03	0.456
5	rs12654812	176.79	<i>DOK3,(17)</i>	1.68E-08	1.07E-01	0.114
6	rs17119	14.71	<i>(0)</i>	3.08E-11	1.52E-02	0.079
6	rs9358372	20.77	<i>(2)</i>	8.66E-14	6.39E-01	0.171
6	rs1847472	90.96	<i>(1)</i>	1.57E-10	4.54E-01	0.060
6	rs6568421	106.43	<i>(2)</i>	8.24E-20	NA	–
6	rs3851228	111.82	<i>TRAF3IP2,FYN,REV3L,(2)</i>	1.08E-13	NA	–
6	rs6920220	138	<i>TNFAIP3,(1)</i>	1.40E-21	NA	–
6	rs12199775	143.9	<i>PHACTR2,(5)</i>	1.99E-08	4.22E-02	0.094
6	rs1819333	167.37	<i>CCR6,RPS6KA2,RNASET2,(3)</i>	6.76E-21	2.55E-02	0.149
7	rs1456896	50.245	<i>ZPBP,IKZF1,(4)</i>	7.28E-15	2.45E-01	0.169
7	rs9297145	98.75	<i>SMURF1,(6)</i>	8.21E-12	6.25E-01	0.084
7	rs1734907	100.34	<i>EPO,(21)</i>	1.67E-13	–	–
7	rs38904	116.89	<i>(6)</i>	1.31E-08	8.54E-01	0.091
8	rs921720	126.53	<i>TRIB1,(1)</i>	8.30E-20	2.44E-01	0.149
8	rs1991866	130.62	<i>(2)</i>	1.65E-09	–	–
9	rs10758669	4.98	<i>JAK2,(4)</i>	7.88E-45	4.02E-05	0.418
9	rs4743820	93.92	<i>NFIL3,(2)</i>	3.60E-09	4.11E-01	0.095
9	rs4246905	117.6	<i>TNFSF8,TNFSF15,TNC,(2)</i>	2.80E-32	3.12E-16	0.315
9	rs10781499	139.32	<i>CARD9,PMPCA,SDCCAG3,INPP5E,(19)</i>	4.38E-56	2.77E-01	0.460
10	rs12722515	6.08	<i>IL2RA,IL15RA,(6)</i>	3.76E-10	8.80E-01	0.104
10	rs1042058	30.72	<i>MAP3K8,(3)</i>	5.93E-11	8.19E-01	0.137
10	rs11010067	35.3	<i>CREM,(3)</i>	2.49E-25	6.27E-01	0.213
10	rs2790216	59.99	<i>CISD1,IPMK,(2)</i>	8.07E-09	1.99E-01	0.113
10	rs10761659	64.51	<i>(3)</i>	6.37E-46	3.92E-02	0.332
10	rs2227564	75.67	<i>(13)</i>	6.75E-10	–	–
10	rs1250546	81.03	<i>(5)</i>	3.15E-18	9.81E-05	0.193
10	rs6586030	82.25	<i>TSPAN14,C10orf58,(4)</i>	9.24E-16	–	–
10	rs7911264	94.43	<i>(4)</i>	2.98E-08	2.88E-01	0.099
10	rs4409764	101.28	<i>NKX2-3,(6)</i>	1.03E-54	1.18E-02	0.508
11	rs907611	1.87	<i>TNNI2,LSP1,(17)</i>	2.70E-10	2.03E-01	0.095
11	rs10896794	58.33	<i>CNTF,LPXN,(8)</i>	6.80E-10	3.91E-01	0.107
11	rs11230563	60.77	<i>CD6,CD5,PTGDR2,(12)</i>	9.03E-13	4.07E-01	0.117
11	rs4246215	61.56	<i>C11orf9,FADS1,FADS2,(12)</i>	1.93E-15	2.52E-01	0.137
11	rs559928	64.12	<i>CCDC88B,RPS6KA4,TRPT1,FLRT1,(20)</i>	4.19E-11	4.95E-01	0.126
11	rs2231884	65.65	<i>RELA,FOSL1,CTSW,SNX32,(22)</i>	2.91E-10	–	–
11	rs2155219	76.29	<i>(5)</i>	4.24E-36	7.92E-01	0.382
11	rs6592362	87.12	<i>(1)</i>	2.32E-08	–	–
11	rs630923	118.74	<i>CXCR5,(17)</i>	7.07E-09	6.61E-01	0.066
12	rs11612508	12.65	<i>LOH12CRI,(8)</i>	1.06E-08	8.50E-01	0.069
12	rs11564258	40.77	<i>LRRK2,MUC19</i>	6.38E-29	7.39E-01	0.242
12	rs11168249	48.2	<i>VDR,(8)</i>	7.78E-09	1.94E-01	0.060
12	rs7134599	68.49	<i>IFNG,IL26,IL22,(1)</i>	8.51E-32	NA	–
13	rs17085007	27.52	<i>(2)</i>	2.79E-19	5.92E-01	0.154
13	rs941823	40.86	<i>(3)</i>	2.07E-14	1.53E-01	0.082
13	rs9557195	99.95	<i>GPR183,GPR18,(6)</i>	2.37E-14	7.70E-01	0.090
14	rs194749	69.27	<i>ZFP36L1,(4)</i>	2.70E-10	3.10E-01	0.124
14	rs4899554	75.7	<i>FOS,MLH3,(6)</i>	2.71E-08	–	–

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				P value	P value	
Inflammatory Bowel Disease general loci (110 loci)						
14	rs8005161	88.47	<i>GPR65,GALC,(1)</i>	2.35E-14	6.51E-01	0.224
15	rs17293632	67.43	<i>SMAD3,(2)</i>	5.97E-16	1.77E-01	0.056
15	rs7495132	91.17	<i>CRTC3,(3)</i>	9.48E-11	1.13E-01	0.141
16	rs529866	11.54	<i>SOCS1,LITAF,RMI2,(10)</i>	1.73E-16	1.00E-01	0.077
16	rs7404095	23.86	<i>PRKCB,(5)</i>	9.68E-10	3.80E-03	0.105
16	rs26528	28.6	<i>RABEP2,IL27,EIF3C,SULT1A1,SULT1A2,NUPRI,(9)</i>	9.65E-22	4.46E-01	0.187
16	rs10521318	86	<i>IRF8,(4)</i>	1.41E-09	-	-
17	rs3091316	32.59	<i>CCL13,CCL2,CCL11,(4)</i>	1.22E-26	8.14E-01	0.258
17	rs12946510	37.91	<i>IKZF3,ZBP2,GSDMB,ORMDL3,GSDMA,(12)</i>	4.10E-38	4.16E-02	0.372
17	rs12942547	40.53	<i>STAT3,STAT5B,STAT5A,(13)</i>	5.51E-22	1.39E-01	0.194
17	rs1292053	57.96	<i>TUBD1,RPS6KB1,(9)</i>	8.85E-13	8.05E-01	0.130
18	rs1893217	12.8	<i>(6)</i>	3.05E-26	3.69E-03	0.240
18	rs7240004	46.39	<i>SMAD7,(2)</i>	1.31E-09	6.88E-01	0.100
18	rs727088	67.53	<i>CD226,(2)</i>	4.65E-09	5.79E-01	0.125
19	rs11879191	10.49	<i>TYK2,PPAN-P2RY11,ICAM1,(25)</i>	2.04E-18	8.06E-01	0.315
19	rs17694108	33.73	<i>CEBPG,(8)</i>	5.85E-15	1.78E-01	0.179
19	rs11672983	55.38	<i>NLRP7,NLRP2,KIR2DL1,LILRB4,(15)</i>	6.50E-11	3.29E-01	0.146
20	rs6142618†	30.75	<i>HCK,(10)</i>	6.05E-10	NA	-
20	rs4911259	31.37	<i>DNMT3B,(8)</i>	1.20E-09	5.68E-03	0.079
20	rs1569723	44.74	<i>CD40,MMP9,PLTP,(11)</i>	9.95E-14	2.89E-02	0.166
20	rs913678	48.95	<i>CEBPB,(5)</i>	4.59E-08	3.60E-01	0.090
20	rs259964	57.82	<i>ZNF831,CTSZ,(5)</i>	1.01E-12	2.78E-01	0.083
20	rs6062504	62.34	<i>TNFRSF6B,LIME1,SLC2A4RG,ZGPAT,(23)</i>	1.09E-23	3.20E-01	0.199
21	rs2823286	16.81	<i>(0)</i>	9.28E-30	7.25E-03	0.226
21	rs2836878	40.46	<i>(3)</i>	4.62E-48	4.20E-01	0.339
21	rs7282490	45.62	<i>ICOSLG,(9)</i>	2.35E-26	8.96E-01	0.213
22	rs2266959	21.92	<i>MAPK1,YDJC,UBE2L3,RIMBP3,CCDC116,(8)</i>	1.39E-16	1.06E-04	0.200
22	rs2412970	30.43	<i>LIF,OSM,MTMR3,(8)</i>	2.70E-14	6.14E-01	0.133
22	rs2413583	39.69	<i>ATF4,TAB1,APOBEC3G,(16)</i>	4.40E-33	2.54E-01	0.156

Note: Chr, chromosome; Position, chromosome position (hg19); NA, monomorphic in Korean; -, data is not available.

*Power of published 140 loci in our Immunochip discovery was analyzed using Quanto (<http://hyda.usc.edu/gxel>).