

Appendix A

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Appendix B

Meta-analysis association statistics at all 241 known and novel loci

In the following table we report the top SNP as that with most significant association described in any of the listed studies (including this one), for all 241 known and novel IBD-associated loci. Association statistics for this study are included for each locus, based on the reported top SNP. A locus is defined around each reported SNP as the right- and left-most variants in linkage disequilibrium ≥ 0.6 to the top SNP, as calculated using the GBR and CEU samples from the 1000 Genomes Phase 3 dataset.

I use the following definitions in this table:

- “FM” in place of a PMID refers to the Huang et al. (2015) bioRxiv preprint.
- “ P_{Meta} ” refers to the association p -value obtained in Chapter 4.
- “ P_{Het} ” refers to the meta-analysis heterogeneity p -value.
- “Trait” describes the phenotype reported by Liu et al. (2015), where applicable, and the one reported by the original paper (cited) if the locus was not replicated. In cases where two (or more) loci from Liu et al. (2015) are merged in this table, and for which different traits are reported, we keep both traits (e.g. the 1:20171860 locus)
- “Implicated gene” indicates those loci where a specific gene has been confidently implicated by fine-mapping, eQTL, or targeted sequencing studies.

Table B.1: Meta-analysis association statistics at all 241 known and novel loci. Table compiled in collaboration with Loukas Moutsianas.

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|------------|-----------|-----------|------------------------|--------------|---------|--|-----------------|-----------------|
| 1 | 1247494 | rs12103 | 1193586 | 1346703 | 8.00×10^{13} | 23128233 | IBD | 2.09×10^7 | 0.451 | |
| 1 | 2501338 | rs10797432 | 2470671 | 2552217 | 3.00×10^{12} | 23128233 | UC | 1.20×10^{10} | 0.220 | |
| 1 | 8022197 | rs3766606 | 7809383 | 8189936 | 8.84×10^{18} | 26192919 | IBD | 1.35×10^{12} | 0.092 | |
| 1 | 20171860 | rs6426833 | 20133810 | 20238343 | 8.56×10^{69} | FM | UC, IBD | 3.04×10^{42} , 1.01×10^{19} | 0.049, 0.057 | |
| 1 | 22702231 | rs12568930 | 22652911 | 22731392 | 1.00×10^{17} | 23128233 | IBD | 7.53×10^{15} | 0.074 | |
| 1 | 63049593 | rs1748195 | 62900811 | 63202258 | 7.13×10^{08} | 26192919 | CD | 3.75×10^{06} | 0.377 | |
| 1 | 67707690 | rs11581607 | 67206042 | 68100675 | 8.76×10^{175} | FM | IBD | 4.59×10^{111} | 0.078 | <i>IL23R</i> |
| 1 | 70995562 | rs2651244 | 70991829 | 71035970 | 2.00×10^{08} | 23128233 | IBD | 7.91×10^{01} | 0.444 | |
| 1 | 78623626 | rs17391694 | 78349467 | 78623626 | 2.62×10^{09} | 26192919 | CD | 9.90×10^{06} | 0.281 | |
| 1 | 92554283 | rs34856868 | 92362377 | 93035991 | 9.80×10^{09} | 26192919 | IBD | 8.86×10^{03} | 0.771 | |
| 1 | 101466054 | rs11583043 | 101293753 | 101587145 | 1.92×10^{06} | 26192919 | IBD | 8.91×10^{04} | 0.139 | |
| 1 | 114165757 | rs2636006 | 114165757 | 114447914 | 2.34×10^{42} | FM | IBD | 2.89×10^{03} | 0.018 | <i>PTPN22</i> |
| 1 | 120451190 | rs3897478 | 120437718 | 120638503 | 2.00×10^{11} | 23128233 | CD | 1.66×10^{04} | 0.202 | |
| 1 | 151801680 | rs4845604 | 151801680 | 151801680 | 1.21×10^{17} | 26192919 | IBD | 7.09×10^{14} | 0.276 | |
| 1 | 155230131 | rs3180018 | 155053719 | 156011444 | 2.00×10^{13} | 21102463 | CD | 1.87×10^{07} | 0.007 | |
| 1 | 159799910 | rs34687326 | 159799910 | 159799910 | 1.06×10^{08} | NOVEL | CD | 1.06×10^{08} | 0.420 | <i>SLAMF8</i> |
| 1 | 160856964 | rs4656958 | 160837622 | 160919496 | 2.05×10^{11} | 26192919 | IBD | 1.68×10^{08} | 0.197 | |
| 1 | 161479745 | rs1801274 | 161460211 | 161638410 | 2.00×10^{38} | 23128233 | IBD | 9.34×10^{14} | 0.008 | <i>FCGR2A</i> |
| 1 | 169519049 | rs6025 | 169090748 | 169733566 | 2.51×10^{08} | 26192919 | IBD | 8.92×10^{05} | 0.443 | |
| 1 | 172853460 | rs7517810 | 172803958 | 172871681 | 4.53×10^{22} | 26192919 | CD | 1.55×10^{21} | 0.319 | |
| 1 | 186875459 | rs10798069 | 186862512 | 186967702 | 2.49×10^{07} | 26192919 | IBD | 2.29×10^{02} | 0.965 | |
| 1 | 191559356 | rs10801047 | 191438042 | 191795390 | 3.00×10^{08} | 17554261 | CD | 1.75×10^{01} | 0.940 | |
| 1 | 197701279 | rs2488397 | 197342380 | 197822994 | 5.64×10^{18} | FM | IBD | 4.05×10^{11} | 0.033 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|-------------|-----------|-----------|-----------------------|--------------|-------|-----------------------|-----------|-----------------|
| 1 | 198598663 | rs7555082 | 198598389 | 198730097 | 2.54×10^{09} | 26192919 | IBD | 3.82×10^{03} | 0.760 | |
| 1 | 200101920 | rs2816958 | 200074018 | 200105746 | 2.00×10^{17} | 23128233 | IBD | 8.71×10^{08} | 0.580 | |
| 1 | 200877562 | rs7554511 | 200874229 | 201025850 | 3.20×10^{44} | 26192919 | IBD | 1.00×10^{21} | 0.332 | |
| 1 | 206939904 | rs3024505 | 206939904 | 206969339 | 2.99×10^{50} | 26192919 | IBD | 6.04×10^{31} | 0.271 | <i>IL10</i> |
| 1 | 209970610 | rs59043219 | 209965283 | 210019701 | 1.09×10^{08} | NOVEL | IBD | 1.09×10^{08} | 0.351 | |
| 2 | 5664008 | rs11894081 | 5651813 | 5693857 | 4.00×10^{09} | 23266558 | CD | 2.27×10^{01} | 0.744 | |
| 2 | 25097644 | rs13407913 | 25075281 | 25506107 | 1.69×10^{20} | 26192919 | IBD | 3.39×10^{07} | 0.898 | |
| 2 | 27730940 | rs1260326 | 27598097 | 27752871 | 1.74×10^{21} | 26192919 | CD | 6.32×10^{11} | 0.186 | |
| 2 | 28614794 | rs925255 | 28602911 | 28647084 | 3.00×10^{15} | 23128233 | IBD | 5.83×10^{11} | 0.229 | |
| 2 | 43806918 | rs10495903 | 43451957 | 43864089 | 2.00×10^{14} | 21102463 | IBD | 5.53×10^{09} | 0.497 | |
| 2 | 61204856 | rs7608910 | 61186829 | 61231014 | 2.60×10^{36} | 26192919 | IBD | 2.72×10^{28} | 0.981 | |
| 2 | 62552321 | rs11679753 | 62549284 | 62723474 | 2.65×10^{12} | FM | CD | 2.83×10^{04} | 0.898 | |
| 2 | 65667272 | rs6740462 | 65557287 | 65693513 | 5.59×10^{12} | 26192919 | IBD | 6.05×10^{04} | 0.284 | |
| 2 | 102939036 | rs13001325 | 102610642 | 103176797 | 2.51×10^{23} | FM | IBD | 4.43×10^{11} | 0.732 | <i>IL18RAP</i> |
| 2 | 145492382 | rs11681525 | 145417530 | 145627269 | 4.08×10^{11} | 26192919 | CD | 5.19×10^{07} | 0.640 | |
| 2 | 160794008 | rs4664304 | 160707866 | 160879971 | 2.61×10^{08} | 26192919 | IBD | 8.38×10^{02} | 0.314 | |
| 2 | 163110536 | rs2111485 | 162992004 | 163237390 | 4.60×10^{09} | 26192919 | IBD | 1.16×10^{05} | 0.426 | <i>IFIH1</i> |
| 2 | 182308352 | rs6740847 | 182308352 | 182334753 | 1.22×10^{13} | NOVEL | IBD | 1.22×10^{13} | 0.003 | <i>ITGA4</i> |
| 2 | 187576378 | rs144344067 | 187497988 | 187684426 | 1.29×10^{08} | NOVEL | IBD | 1.29×10^{08} | 0.118 | |
| 2 | 191931464 | rs1517352 | 191907655 | 191972789 | 3.87×10^{14} | 26192919 | IBD | 1.66×10^{04} | 0.049 | |
| 2 | 198896895 | rs6738825 | 198386175 | 198954831 | 4.00×10^{09} | 21102463 | UC | 1.32×10^{01} | 0.639 | |
| 2 | 199560757 | rs17229679 | 199362905 | 200152198 | 7.05×10^{20} | FM | UC | 3.18×10^{04} | 0.969 | |
| 2 | 204592021 | rs3116494 | 204585502 | 204649276 | 5.11×10^{07} | 26192919 | IBD | 9.98×10^{05} | 0.610 | |
| 2 | 219151218 | rs2382817 | 218941916 | 219192755 | 1.13×10^{13} | 26192919 | IBD | 1.90×10^{07} | 0.158 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|-------------|-----------|-----------|-----------------------|--------------|------------|--|-----------------|-----------------|
| 2 | 228660112 | rs111781203 | 228646855 | 228664568 | 2.16×10^{10} | 26192919 | IBD | 5.09×10^{05} | 0.820 | |
| 2 | 228670476 | rs1811711 | 228670387 | 228671736 | 6.09×10^{09} | NOVEL | UC | 6.09×10^{09} | 0.870 | |
| 2 | 231097129 | rs6716753 | 231083171 | 231187167 | 1.98×10^{17} | 26192919 | CD | 1.46×10^{13} | 0.822 | <i>SP140</i> |
| 2 | 234161448 | rs6752107 | 234143048 | 234208258 | 1.42×10^{73} | FM | IBD | 3.13×10^{28} | 0.607 | <i>ATG16L1</i> |
| 2 | 241574401 | rs4676408 | 241563739 | 241608453 | 2.59×10^{30} | FM | IBD, UC | 7.63×10^{15} , 1.19×10^{17} | 0.323, 0.597 | |
| 2 | 242484701 | rs76527535 | 242471730 | 242489453 | 2.87×10^{08} | NOVEL | IBD | 2.87×10^{08} | 0.310 | |
| 2 | 242737341 | rs35320439 | 242724543 | 242740537 | 1.73×10^{05} | 26192919 | IBD | 2.38×10^{01} | 0.051 | |
| 3 | 18767404 | rs4256159 | 18610175 | 18825669 | 9.00×10^{15} | 23128233 | CD | 2.90×10^{05} | 0.032 | |
| 3 | 46457412 | rs113010081 | 46183180 | 46461783 | 4.21×10^{08} | 26192919 | IBD | 1.08×10^{03} | 0.677 | |
| 3 | 49721532 | rs3197999 | 48446237 | 49731861 | 1.55×10^{52} | 26192919 | IBD | 1.43×10^{33} | 0.661 | <i>MST1</i> |
| 3 | 53062661 | rs9847710 | 52962681 | 53174638 | 1.00×10^{08} | 23128233 | UC | 6.57×10^{05} | 0.033 | |
| 3 | 53133149 | rs2581828 | 53103155 | 53174638 | 6.46×10^{09} | NOVEL | CD | 6.46×10^{09} | 0.620 | |
| 3 | 71175495 | rs2593855 | 71163596 | 71191350 | 2.54×10^{09} | NOVEL | IBD | 2.54×10^{09} | 0.432 | |
| 3 | 101023748 | rs503734 | 100910925 | 101270494 | 2.67×10^{08} | NOVEL | IBD | 2.67×10^{08} | 0.718 | |
| 3 | 101569726 | rs616597 | 101560223 | 101576029 | 9.34×10^{06} | 26192919 | UC | 4.50×10^{02} | 0.640 | |
| 3 | 141105570 | rs724016 | 141072289 | 141154542 | 3.36×10^{06} | 26192919 | CD | 7.60×10^{08} | 0.969 | |
| 3 | 188401160 | rs56116661 | 188398642 | 188404669 | 5.67×10^{10} | NOVEL | CD | 5.67×10^{10} | 0.592 | |
| 4 | 3444503 | rs2073505 | 3444503 | 3446754 | 1.46×10^{07} | 26192919 | IBD | 2.16×10^{04} | 0.040 | |
| 4 | 26132361 | rs4692386 | 26132361 | 26132361 | 1.21×10^{08} | 26192919 | IBD | 1.40×10^{04} | 0.136 | |
| 4 | 38325036 | rs6856616 | 38325036 | 38345898 | 4.00×10^{14} | 23850713 | IBD | 1.42×10^{04} | 0.751 | |
| 4 | 38588453 | rs11734570 | 38581581 | 38588453 | 4.80×10^{08} | NOVEL | IBD | 4.80×10^{08} | 0.053 | |
| 4 | 48363245 | rs7438704 | 48344930 | 48430354 | 3.42×10^{11} | 26192919 | CD | 1.26×10^{05} | 0.012 | |
| 4 | 74857708 | rs2472649 | 74778235 | 74875713 | 3.00×10^{08} | 23128233 | IBD | 1.86×10^{03} | 0.247 | |

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| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|------------|-----------|-----------|-----------------------|--------------|--------|--|-----------------|-----------------|
| 4 | 102865304 | rs13126505 | 102702364 | 103547967 | 1.57×10^{14} | 26192919 | CD, UC | 3.79×10^{08} , 1.11×10^{02} | 0.029, 0.419 | |
| 4 | 106075498 | rs2189234 | 106048360 | 106271522 | 1.95×10^{10} | 26192919 | UC | 1.47×10^{05} | 0.156 | |
| 4 | 123351431 | rs1479918 | 123023206 | 123558828 | 1.07×10^{13} | FM | IBD | 1.10×10^{07} | 0.800 | |
| 5 | 583442 | rs4957048 | 523995 | 697372 | 1.00×10^{09} | 20228799 | UC | 1.64×10^{07} | 0.682 | |
| 5 | 10695526 | rs2930047 | 10670197 | 10759514 | 9.78×10^{14} | 26192919 | IBD | 5.08×10^{06} | 0.764 | |
| 5 | 35876274 | rs3194051 | 35815846 | 35924748 | 4.00×10^{08} | 21297633 | UC | 1.78×10^{03} | 0.073 | |
| 5 | 38867732 | rs395157 | 38861514 | 38867732 | 2.22×10^{20} | 26192919 | IBD | 4.63×10^{10} | 0.445 | |
| 5 | 40410584 | rs11742570 | 40219972 | 40623346 | 2.00×10^{82} | 23128233 | IBD | 3.64×10^{40} | 0.285 | |
| 5 | 55438851 | rs10065637 | 55436851 | 55444683 | 4.00×10^{12} | 23128233 | IBD | 1.09×10^{05} | 0.472 | |
| 5 | 71693899 | rs4703855 | 71683885 | 71694246 | 7.16×10^{11} | 26192919 | IBD | 1.41×10^{05} | 0.587 | |
| 5 | 72539850 | rs34804116 | 72502029 | 72559339 | 1.21×10^{12} | FM | CD | 6.09×10^{06} | 0.160 | |
| 5 | 96252803 | rs1363907 | 96200770 | 96373750 | 4.87×10^{15} | 26192919 | IBD | 1.10×10^{10} | 0.767 | <i>ERAP2</i> |
| 5 | 101946798 | rs7705924 | 101629599 | 101978963 | 2.00×10^{08} | 22412388 | CD | 5.96×10^{01} | 0.256 | |
| 5 | 130017287 | rs4836519 | 129723552 | 130197645 | 4.00×10^{10} | 23128233 | IBD | 1.49×10^{03} | 0.266 | |
| 5 | 131770805 | rs2188962 | 130370970 | 131833599 | 9.53×10^{53} | FM | IBD | 3.67×10^{27} | 0.805 | |
| 5 | 134443606 | rs254560 | 134422204 | 134453390 | 8.55×10^{10} | 26192919 | IBD | 1.63×10^{06} | 0.003 | |
| 5 | 141513204 | rs6863411 | 141435466 | 141543989 | 2.41×10^{14} | 26192919 | IBD | 5.02×10^{10} | 0.867 | |
| 5 | 149605994 | rs17656349 | 149592334 | 149626547 | 1.54×10^{08} | NOVEL | UC | 1.54×10^{08} | 0.125 | |
| 5 | 150277909 | rs11741861 | 149737015 | 150723626 | 3.00×10^{37} | 23128233 | IBD | 3.28×10^{15} | 0.305 | |
| 5 | 158827769 | rs56167332 | 158687404 | 158856513 | 7.17×10^{50} | 26192919 | IBD | 2.52×10^{38} | 0.415 | |
| 5 | 172324978 | rs564349 | 172324978 | 172324978 | 1.54×10^{07} | 26192919 | IBD | 2.35×10^{06} | 0.749 | |
| 5 | 173279842 | rs359457 | 173269669 | 173393823 | 3.00×10^{12} | 21102463 | IBD | 6.42×10^{04} | 0.513 | |
| 5 | 176788570 | rs4976646 | 176781209 | 176806636 | 3.23×10^{12} | 26192919 | IBD | 3.99×10^{09} | 0.229 | |
| 6 | 382559 | rs7773324 | 382537 | 391623 | 5.84×10^{09} | 26192919 | IBD | 1.69×10^{01} | 0.291 | |

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| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|-------------|-----------|-----------|------------------------|--------------|-----------|--|-----------------|-----------------|
| 6 | 3433318 | rs17309827 | 3416922 | 3445671 | 7.00×10^{09} | 21102463 | IBD | 3.94×10^{02} | 0.131 | |
| 6 | 14719496 | rs17119 | 14711961 | 14734463 | 2.18×10^{11} | 26192919 | IBD | 9.35×10^{11} | 0.320 | |
| 6 | 19781009 | rs113986290 | 19716349 | 19825913 | 7.59×10^{09} | NOVEL | UC | 7.59×10^{09} | 0.150 | |
| 6 | 20812588 | rs9358372 | 20640424 | 20891791 | 9.00×10^{14} | 23128233 | CD | 1.25×10^{08} | 0.113 | |
| 6 | 21430730 | rs71559680 | 21426743 | 21444899 | 1.78×10^{15} | 26192919 | CD | 2.08×10^{08} | 0.607 | |
| 6 | 32612397 | rs6927022 | 31011373 | 32778656 | 5.00×10^{133} | 23128233 | IBD | 2.28×10^{31} | 0.039 | |
| 6 | 42007403 | rs67289879 | 41999358 | 42008203 | 3.04×10^{08} | NOVEL | IBD | 3.04×10^{08} | 0.232 | |
| 6 | 43795968 | rs943072 | 43784803 | 43801582 | 2.00×10^{10} | 21297633 | UC | 1.81×10^{04} | 0.127 | |
| 6 | 90973159 | rs1847472 | 90809560 | 91012867 | 2.00×10^{10} | 23128233 | IBD | 1.79×10^{09} | 0.401 | |
| 6 | 106435269 | rs7746082 | 106435025 | 106530330 | 1.29×10^{20} | 26192919 | IBD | 9.03×10^{13} | 0.428 | |
| 6 | 111848191 | rs3851228 | 111426965 | 112213778 | 1.50×10^{15} | 26192919 | IBD | 3.91×10^{10} | 0.501 | |
| 6 | 116768917 | rs2858829 | 116768917 | 116818887 | 8.00×10^{10} | 25082827 | UC | 8.69×10^{06} | 0.044 | |
| 6 | 127456122 | rs9491697 | 127419737 | 127532381 | 4.00×10^{10} | 23128233 | CD | 2.24×10^{09} | 0.765 | |
| 6 | 128277151 | rs9491891 | 128215237 | 128339699 | 9.39×10^{17} | FM | CD | 6.84×10^{06} | 0.732 | |
| 6 | 138006504 | rs6920220 | 137959235 | 138166068 | 1.00×10^{21} | 23128233 | IBD | 1.00×10^{08} | 0.122 | |
| 6 | 143898894 | rs12199775 | 143865221 | 143924048 | 2.00×10^{08} | 23128233 | IBD | 2.91×10^{05} | 0.193 | |
| 6 | 149577079 | rs7758080 | 149577079 | 149595505 | 1.15×10^{07} | 26192919 | IBD | 1.09×10^{04} | 0.220 | |
| 6 | 159490436 | rs212388 | 159472149 | 159515309 | 1.80×10^{16} | 26192919 | CD | 9.52×10^{11} | 0.575 | |
| 6 | 167373547 | rs1819333 | 167360389 | 167544278 | 7.00×10^{21} | 23128233 | IBD | 8.81×10^{15} | 0.093 | |
| 7 | 2789880 | rs798502 | 2752152 | 2912928 | 6.00×10^{17} | 23128233 | IBD | 1.60×10^{07} | 0.221 | |
| 7 | 6545188 | rs11768365 | 6497501 | 6545335 | 3.88×10^{08} | NOVEL | IBD | 3.88×10^{08} | 0.935 | |
| 7 | 17442679 | rs1077773 | 17430004 | 17450531 | 5.96×10^{09} | 26192919 | UC | 6.25×10^{06} | 0.773 | |
| 7 | 20577298 | rs149169037 | 20577298 | 20581696 | 3.26×10^{08} | NOVEL | IBD | 3.26×10^{08} | 0.259 | <i>ITGB8</i> |
| 7 | 26892440 | rs10486483 | 26694926 | 27248891 | 1.55×10^{11} | 26192919 | CD, UC | 4.32×10^{04} , 9.60×10^{01} | 0.197, 0.391 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|------------|-----------|-----------|-----------------------|--------------|-------|-----------------------|-----------|-----------------|
| 7 | 28190730 | rs56691573 | 28141159 | 28231103 | 2.22×10^{12} | FM | CD | 7.01×10^{01} | 1.000 | |
| 7 | 50304461 | rs1456896 | 50096251 | 50323456 | 7.00×10^{15} | 23128233 | IBD | 4.50×10^{11} | 0.266 | |
| 7 | 98759117 | rs9297145 | 98717625 | 98797924 | 8.00×10^{12} | 23128233 | IBD | 8.37×10^{09} | 0.414 | |
| 7 | 100315517 | rs1734907 | 100219167 | 100433794 | 2.00×10^{13} | 23128233 | IBD | 1.61×10^{05} | 0.121 | |
| 7 | 107480315 | rs4380874 | 107435187 | 107584780 | 2.00×10^{26} | 23128233 | UC | 9.07×10^{21} | 0.320 | |
| 7 | 116892846 | rs38904 | 116889718 | 116917118 | 1.00×10^{08} | 23128233 | UC | 6.28×10^{06} | 0.695 | |
| 7 | 128573967 | rs4728142 | 128567032 | 128581835 | 1.92×10^{14} | 26192919 | UC | 3.23×10^{10} | 0.491 | |
| 7 | 148220448 | rs2538470 | 148211140 | 148253738 | 3.00×10^{11} | 26192919 | IBD | 3.77×10^{05} | 0.329 | |
| 7 | 148435339 | rs243505 | 148395484 | 148576042 | 3.04×10^{10} | NOVEL | IBD | 3.04×10^{10} | 0.671 | |
| 8 | 27227554 | rs17057051 | 27195121 | 27238052 | 5.50×10^{08} | 26192919 | IBD | 9.90×10^{04} | 0.235 | |
| 8 | 49129242 | rs7011507 | 49047317 | 49206289 | 2.03×10^{08} | 26192919 | IBD | 5.84×10^{06} | 0.061 | |
| 8 | 74007347 | rs12677663 | 73995603 | 74013420 | 2.00×10^{08} | 22412388 | CD | 6.38×10^{02} | 0.306 | |
| 8 | 90875918 | rs7015630 | 90854846 | 90877546 | 1.00×10^{08} | 23128233 | IBD | 9.98×10^{04} | 0.459 | |
| 8 | 126534671 | rs921720 | 126527765 | 126541090 | 8.00×10^{20} | 23128233 | IBD | 2.73×10^{12} | 0.458 | |
| 8 | 129567181 | rs6651252 | 129503666 | 129571140 | 4.00×10^{18} | 21102463 | IBD | 5.63×10^{07} | 0.235 | |
| 8 | 130624105 | rs1991866 | 130589676 | 130624661 | 2.00×10^{09} | 23128233 | IBD | 1.22×10^{06} | 0.043 | |
| 9 | 4981601 | rs75900472 | 4980756 | 4984530 | 4.70×10^{48} | 26192919 | IBD | 1.24×10^{28} | 0.273 | |
| 9 | 34736158 | rs9408254 | 34707814 | 34768894 | 1.95×10^{08} | 26974007 | CD | 1.47×10^{04} | 0.038 | |
| 9 | 93928416 | rs4743820 | 93904561 | 94124414 | 3.80×10^{09} | 26192919 | IBD | 3.63×10^{06} | 0.189 | |
| 9 | 117545666 | rs6478106 | 117535341 | 117698507 | 5.00×10^{46} | 23266558 | IBD | 1.89×10^{01} | 0.638 | <i>TNFSF8</i> |
| 9 | 120475302 | rs4986790 | 120467576 | 120475602 | 6.99×10^{09} | 26974007 | CD | 2.77×10^{05} | 0.211 | |
| 9 | 139266405 | rs10781499 | 138824899 | 139405093 | 4.00×10^{56} | 23128233 | IBD | 5.06×10^{36} | 0.121 | <i>CARD9</i> |
| 10 | 6094697 | rs61839660 | 6038478 | 6527143 | 1.24×10^{14} | FM | IBD | 3.81×10^{03} | 0.013 | <i>IL2RA</i> |
| 10 | 27179596 | rs7911117 | 27159385 | 27182592 | 1.84×10^{08} | NOVEL | UC | 1.84×10^{08} | 0.723 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|-------------|-----------|-----------|-----------------------|--------------|-------|-----------------------|-----------|-----------------|
| 10 | 30728101 | rs1042058 | 30689316 | 30808324 | 6.00×10^{11} | 23128233 | IBD | 2.81×10^{12} | 0.221 | |
| 10 | 35466185 | rs34779708 | 35256960 | 35554054 | 2.39×10^{26} | FM | IBD | 5.74×10^{12} | 0.034 | |
| 10 | 59913151 | rs1819658 | 59901559 | 60065351 | 9.00×10^{17} | 21102463 | IBD | 1.44×10^{06} | 0.191 | |
| 10 | 64445564 | rs10761659 | 64349667 | 64566258 | 4.97×10^{53} | 26192919 | IBD | 2.30×10^{36} | 0.239 | |
| 10 | 75673101 | rs2227564 | 75462199 | 75695724 | 7.00×10^{10} | 23128233 | IBD | 1.35×10^{04} | 0.049 | |
| 10 | 81060317 | rs1250550 | 81032532 | 81067480 | 1.00×10^{30} | 21102463 | IBD | 3.56×10^{12} | 0.552 | |
| 10 | 82254047 | rs6586030 | 82214586 | 82301536 | 9.00×10^{16} | 23128233 | IBD | 5.27×10^{08} | 0.600 | |
| 10 | 94436851 | rs7911264 | 94248310 | 94495241 | 3.00×10^{08} | 23128233 | IBD | 5.37×10^{07} | 0.491 | |
| 10 | 101284237 | rs4409764 | 101271789 | 101320612 | 1.16×10^{61} | 26192919 | IBD | 1.90×10^{34} | 0.117 | |
| 10 | 104232716 | rs3740415 | 104222963 | 104403310 | 1.03×10^{07} | 26192919 | IBD | 8.47×10^{04} | 0.004 | |
| 10 | 112186148 | rs11195128 | 112182708 | 112186148 | 2.00×10^{10} | 23850713 | CD | 5.41×10^{11} | 0.012 | |
| 10 | 126439381 | rs111456533 | 126316604 | 126551228 | 1.18×10^{09} | NOVEL | IBD | 1.18×10^{09} | 0.568 | |
| 10 | 133172119 | rs10734105 | 133170322 | 133172119 | 3.00×10^{08} | 22412388 | CD | 3.45×10^{01} | 0.932 | |
| 11 | 1874072 | rs907611 | 1873232 | 1880596 | 1.00×10^{10} | 21297633 | IBD | 1.06×10^{06} | 0.100 | |
| 11 | 57203009 | rs11229030 | 57184964 | 57209488 | 8.00×10^{09} | 22412388 | CD | 2.98×10^{01} | 0.906 | |
| 11 | 58408687 | rs11229555 | 58174653 | 58434545 | 5.23×10^{12} | 26192919 | IBD | 2.59×10^{05} | 0.489 | |
| 11 | 60776209 | rs11230563 | 60770426 | 60776781 | 1.71×10^{14} | 26192919 | IBD | 1.95×10^{06} | 0.138 | <i>CD6</i> |
| 11 | 61564299 | rs4246215 | 61542006 | 61624181 | 2.00×10^{15} | 23128233 | IBD | 4.37×10^{05} | 0.332 | |
| 11 | 64150370 | rs559928 | 63956102 | 64164833 | 3.33×10^{13} | 26192919 | IBD | 1.75×10^{05} | 0.235 | |
| 11 | 65656564 | rs2231884 | 65575263 | 65663547 | 3.00×10^{10} | 23128233 | CD | 1.40×10^{04} | 0.647 | |
| 11 | 72863697 | rs11235667 | 72863697 | 72863697 | 7.00×10^{09} | 23850713 | CD | NA | NA | |
| 11 | 76299649 | rs11236797 | 76270683 | 76302073 | 2.25×10^{50} | FM | IBD | 7.19×10^{33} | 0.837 | |
| 11 | 87125438 | rs6592362 | 87123977 | 87130298 | 2.00×10^{08} | 23128233 | IBD | 1.44×10^{03} | 0.839 | |
| 11 | 96023427 | rs483905 | 96015426 | 96045998 | 3.16×10^{10} | 26192919 | UC | 6.81×10^{07} | 0.013 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|-----------|-------------|-----------|-----------|-----------------------|--------------|-------|-----------------------|-----------|-----------------|
| 11 | 114397162 | rs200349593 | 114275412 | 114447782 | 3.56×10^{20} | FM | UC | 2.19×10^{09} | 1.000 | <i>NXPE1</i> |
| 11 | 118754353 | rs630923 | 118754353 | 118754353 | 7.00×10^{09} | 23128233 | CD | 6.55×10^{06} | 0.495 | |
| 11 | 128380974 | rs11221332 | 128380974 | 128396738 | 2.44×10^{09} | 26974007 | IBD | 2.44×10^{08} | 0.909 | |
| 12 | 6491125 | rs7954567 | 6487161 | 6514969 | 1.30×10^{09} | 26192919 | CD | 4.69×10^{09} | 0.974 | |
| 12 | 12657513 | rs11612508 | 12560673 | 12711368 | 1.00×10^{08} | 23128233 | UC | 5.01×10^{04} | 0.226 | |
| 12 | 40740223 | rs148319899 | 40388109 | 40828306 | 5.54×10^{29} | FM | IBD | 2.55×10^{15} | 0.100 | |
| 12 | 48208368 | rs11168249 | 48195939 | 48208368 | 8.00×10^{09} | 23128233 | UC | 3.18×10^{07} | 0.711 | |
| 12 | 68508122 | rs11614178 | 68469642 | 68508276 | 2.22×10^{32} | FM | IBD | 3.82×10^{23} | 0.976 | |
| 12 | 112007756 | rs653178 | 111826477 | 112486818 | 1.11×10^{08} | 26192919 | IBD | 2.14×10^{09} | 0.451 | |
| 12 | 120146925 | rs11064881 | 120109284 | 120146925 | 5.95×10^{08} | 26192919 | IBD | 5.34×10^{05} | 0.911 | |
| 13 | 27531267 | rs17085007 | 27531267 | 27543781 | 3.00×10^{19} | 23128233 | UC | 1.21×10^{14} | 0.942 | |
| 13 | 41013977 | rs941823 | 40678443 | 41032853 | 2.00×10^{14} | 23128233 | IBD | 3.59×10^{07} | 0.240 | |
| 13 | 41558110 | rs7329174 | 41552738 | 41771476 | 8.00×10^{09} | 23266558 | CD | 3.90×10^{01} | 0.164 | |
| 13 | 42917861 | rs80244186 | 42838908 | 42938329 | 3.66×10^{08} | NOVEL | CD | 3.66×10^{08} | 0.362 | |
| 13 | 43052880 | rs2062305 | 42951449 | 43055002 | 5.00×10^{10} | 21102463 | CD | 3.60×10^{07} | 0.139 | |
| 13 | 44457925 | rs3764147 | 44406102 | 44490181 | 2.00×10^{21} | 23128233 | IBD | 2.74×10^{08} | 0.954 | |
| 13 | 49595331 | rs2026029 | 49538512 | 49821244 | 9.73×10^{09} | 26974007 | CD | 2.58×10^{03} | 0.889 | |
| 13 | 99956622 | rs9557195 | 99778655 | 100064765 | 2.00×10^{14} | 23128233 | IBD | 1.38×10^{06} | 0.366 | |
| 14 | 69210199 | rs4902642 | 69201003 | 69307621 | 2.00×10^{10} | 21102463 | IBD | 1.96×10^{04} | 0.225 | |
| 14 | 75741751 | rs1569328 | 75700675 | 75747118 | 3.21×10^{09} | 26192919 | IBD | 1.98×10^{05} | 0.819 | |
| 14 | 88472595 | rs8005161 | 88398949 | 88555206 | 4.00×10^{18} | 21102463 | IBD | 2.71×10^{11} | 0.303 | |
| 15 | 38899190 | rs16967103 | 38836777 | 38925195 | 4.00×10^{09} | 23128233 | IBD | 6.35×10^{03} | 0.864 | |
| 15 | 41563950 | rs28374715 | 41367036 | 41779260 | 2.00×10^{08} | 23128233 | UC | 3.27×10^{07} | 0.750 | |
| 15 | 67442596 | rs17293632 | 67441750 | 67468285 | 2.71×10^{20} | 26192919 | IBD | 3.01×10^{21} | 0.538 | <i>SMAD3</i> |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|----------|------------|----------|----------|------------------------|--------------|-------|-----------------------|-----------|-----------------|
| 15 | 91172901 | rs7495132 | 91172901 | 91192408 | 9.00×10^{11} | 23128233 | IBD | 2.62×10^{07} | 0.854 | |
| 16 | 11373320 | rs529866 | 11344903 | 11718433 | 2.00×10^{16} | 23128233 | CD | 1.05×10^{07} | 0.244 | |
| 16 | 23864590 | rs7404095 | 23841051 | 23867776 | 1.00×10^{09} | 23128233 | IBD | 1.63×10^{07} | 0.145 | |
| 16 | 28528781 | rs28449958 | 28338039 | 28955702 | 7.50×10^{24} | FM | IBD | 2.18×10^{12} | 0.631 | <i>ITGAL</i> |
| 16 | 30482494 | rs11150589 | 30469919 | 30512443 | 1.63×10^{11} | FM | UC | 1.21×10^{06} | 0.936 | |
| 16 | 50335074 | rs78534766 | 50304685 | 50335074 | 1.17×10^{14} | NOVEL | UC | 3.32×10^{13} | 0.838 | <i>ADCY7</i> |
| 16 | 50745926 | rs2066844 | 50511169 | 51009351 | 2.27×10^{217} | FM | IBD | 1.42×10^{38} | 0.003 | <i>NOD2</i> |
| 16 | 68591230 | rs1728785 | 68554754 | 68680902 | 3.00×10^{08} | 19915572 | UC | 3.76×10^{08} | 0.702 | |
| 16 | 81916912 | rs11548656 | 81910840 | 81922813 | 5.18×10^{11} | NOVEL | IBD | 5.18×10^{11} | 0.208 | <i>PLCG2</i> |
| 16 | 82867456 | rs10492862 | 82866188 | 82916401 | 1.26×10^{09} | NOVEL | CD | 1.26×10^{09} | 0.840 | |
| 16 | 86014241 | rs16940202 | 85989464 | 86019761 | 6.00×10^{19} | 21297633 | IBD | 2.51×10^{11} | 0.606 | |
| 17 | 25869033 | rs10775412 | 25788058 | 25869033 | 2.51×10^{25} | FM | CD | 3.32×10^{08} | 0.974 | |
| 17 | 32593974 | rs3091316 | 32567679 | 32625383 | 1.00×10^{26} | 23128233 | IBD | 1.47×10^{12} | 0.578 | |
| 17 | 37912377 | rs12946510 | 37902887 | 38119638 | 2.16×10^{39} | 26192919 | IBD | 1.69×10^{26} | 0.916 | |
| 17 | 40527544 | rs12942547 | 40412165 | 40690118 | 6.00×10^{22} | 23128233 | IBD | 1.90×10^{17} | 0.717 | |
| 17 | 54880993 | rs3853824 | 54868990 | 54949047 | 7.70×10^{10} | 26192919 | IBD | 9.79×10^{06} | 0.807 | |
| 17 | 57963537 | rs1292053 | 57801597 | 58046076 | 9.00×10^{13} | 23128233 | IBD | 2.04×10^{05} | 0.086 | |
| 17 | 70642923 | rs17780256 | 70611194 | 70642923 | 3.19×10^{11} | 26192919 | IBD | 3.74×10^{11} | 0.914 | |
| 17 | 76737118 | rs17736589 | 76667271 | 76833429 | 4.34×10^{08} | 26192919 | UC | 1.28×10^{05} | 0.079 | |
| 18 | 12818922 | rs80262450 | 12745889 | 12886441 | 3.97×10^{28} | FM | IBD | 1.04×10^{16} | 0.696 | |
| 18 | 46395022 | rs7240004 | 46393601 | 46395315 | 1.01×10^{10} | 26192919 | IBD | 4.30×10^{08} | 0.209 | |
| 18 | 56879827 | rs9319943 | 56876228 | 56883319 | 9.05×10^{07} | 26192919 | CD | 6.60×10^{05} | 0.346 | |
| 18 | 67530439 | rs727088 | 67511645 | 67562657 | 5.00×10^{09} | 23128233 | IBD | 2.21×10^{03} | 0.863 | |
| 18 | 77220616 | rs7236492 | 77183529 | 77237142 | 1.45×10^{08} | 26192919 | IBD | 9.99×10^{04} | 0.156 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|----------|------------|----------|----------|-----------------------|--------------|--------|--|-----------------|--------------------|
| 19 | 1124031 | rs2024092 | 1106477 | 1191682 | 8.00×10^{22} | 23128233 | IBD | 5.00×10^{17} | 0.620 | |
| 19 | 10512911 | rs11879191 | 10408439 | 10600418 | 5.27×10^{20} | 26192919 | IBD | 1.53×10^{11} | 0.566 | <i>ICAM1, TYK2</i> |
| 19 | 33731551 | rs17694108 | 33728381 | 33757062 | 6.00×10^{15} | 23128233 | IBD | 1.36×10^{12} | 0.985 | |
| 19 | 34656406 | rs587259 | 34653364 | 34727202 | 2.98×10^{08} | 26974007 | CD | 1.41×10^{03} | 0.043 | |
| 19 | 46849806 | rs4802307 | 46847901 | 47147226 | 9.04×10^{12} | 26192919 | CD, UC | 3.59×10^{07} , 9.92×10^{02} | 0.598, 0.698 | |
| 19 | 49206172 | rs516246 | 49168942 | 49248730 | 1.33×10^{20} | 26192919 | CD | 3.58×10^{11} | 0.266 | <i>FUT2</i> |
| 19 | 55383051 | rs11672983 | 55368865 | 55386920 | 7.00×10^{11} | 23128233 | IBD | 2.74×10^{04} | 0.994 | |
| 20 | 6093889 | rs4256018 | 6076126 | 6095344 | 1.23×10^{08} | NOVEL | IBD | 1.23×10^{08} | 0.781 | |
| 20 | 30725648 | rs6142618 | 30696392 | 31099311 | 6.00×10^{10} | 23128233 | IBD | 6.14×10^{06} | 0.334 | |
| 20 | 31376282 | rs4911259 | 31329704 | 31471012 | 1.00×10^{09} | 23128233 | IBD | 2.46×10^{03} | 0.061 | |
| 20 | 33799280 | rs6088765 | 33799280 | 33882720 | 2.00×10^{08} | 23128233 | IBD | 8.47×10^{03} | 0.079 | |
| 20 | 43065028 | rs6017342 | 43065028 | 43258079 | 5.17×10^{50} | FM | UC | 3.95×10^{30} | 0.150 | |
| 20 | 44742064 | rs1569723 | 44680853 | 44749251 | 1.00×10^{13} | 23128233 | IBD | 1.98×10^{06} | 0.195 | |
| 20 | 48955424 | rs913678 | 48955424 | 48968438 | 5.35×10^{11} | 26192919 | IBD | 4.21×10^{07} | 0.411 | |
| 20 | 57824309 | rs259964 | 57809343 | 57829821 | 1.00×10^{12} | 23128233 | IBD | 3.37×10^{09} | 0.936 | |
| 20 | 62329099 | rs6062496 | 62270637 | 62378954 | 6.76×10^{26} | FM | IBD | 2.83×10^{26} | 0.075 | |
| 21 | 16817938 | rs2823286 | 16781136 | 16841303 | 9.00×10^{30} | 23128233 | IBD | 4.43×10^{29} | 0.073 | |
| 21 | 34776695 | rs2284553 | 34752334 | 34777409 | 5.63×10^{17} | 26192919 | CD | 1.14×10^{14} | 0.624 | |
| 21 | 40465534 | rs2836878 | 40458508 | 40468838 | 5.00×10^{48} | 23128233 | IBD | 2.30×10^{29} | 0.093 | |
| 21 | 45615741 | rs7282490 | 45611686 | 45634148 | 9.85×10^{30} | 26192919 | IBD | 1.85×10^{23} | 0.214 | |
| 22 | 21922904 | rs2266959 | 21910280 | 21998833 | 1.00×10^{16} | 23128233 | IBD | 4.12×10^{15} | 0.642 | |
| 22 | 30493882 | rs5763767 | 30130115 | 30592487 | 8.82×10^{15} | 26192919 | IBD | 4.17×10^{08} | 0.109 | |
| 22 | 35729721 | rs138788 | 35724659 | 35737461 | 2.95×10^{08} | NOVEL | UC | 2.95×10^{08} | 0.347 | |
| 22 | 37258503 | rs4821544 | 37258503 | 37258986 | 1.76×10^{08} | NOVEL | CD | 1.76×10^{08} | 0.574 | |

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Table B.1 – Continued from previous page

| Chr | Position | Rsid | LD_left | LD_right | P-value | Study (PMID) | Trait | P_{Meta} | P_{Het} | Implicated gene |
|-----|----------|-----------|----------|----------|-----------------------|--------------|-------|-----------------------|-----------|-----------------|
| 22 | 39659773 | rs2413583 | 39659773 | 39756650 | 5.06×10^{38} | 26192919 | IBD | 4.60×10^{24} | 0.822 | |
| 22 | 41867377 | rs727563 | 41215672 | 42216326 | 1.88×10^{10} | 26192919 | CD | 8.20×10^{04} | 0.016 | |
| 22 | 50435480 | rs5771069 | 50353919 | 50457041 | 4.00×10^{08} | 20228798 | UC | 2.47×10^{10} | 0.373 | |

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