

(SUPPLEMENTARY TABLE 1) Study Subjects

| <u>STUDY POPULATION</u> | <u>CD cases</u> | <u>controls</u> |
|--|-----------------|-----------------|
| <u>Primary dataset:</u> | | |
| Samples Received | | |
| Recruited by MAAIS | 227 | 201 |
| Subjects not included | | |
| < 15% African Ancestry | 0 | 1 |
| Final primary dataset | | |
| Study Population | 227 | 200 |
| <u>Secondary dataset:</u> | | |
| Samples Received | | |
| Univ. of Chicago | 66 | 0 |
| Med Coll of Wisconsin | 59 | 0 |
| Duke University | 12 | 0 |
| IBDGC (22 UC and IC cases also received) | 14 | 7 |
| Balt. Asthma Controls | 0 | 152 |
| Total Samples cohort 2 received | 151 | 159 |
| Subjects not included | | |
| ≤ 15% African Ancestry | 2 | 1 |
| Canadian IBDGC study subjects | 12 | 4 |
| Poor genotyping | 10 | 0 |
| Final secondary dataset | | |
| Study Population | 127 | 154 |

(SUPPLEMENTARY TABLE 2) Characteristics of 21 SNPs genotyped (combined dataset)

| Gene | SNP no. | Nucleotide change | Location | Minor allele frequency (in controls) | Genotype call rate | HWE <i>P</i> | HapMap CEU | HapMap YRI |
|-------------------------------------|--------------------------------|-----------------------------|------------------|--------------------------------------|--------------------|--------------|----------------------|----------------------|
| Candidate SNPs | | | | | | | | |
| <i>NOD2</i> | Rs2066847 1007fs (SNP13) | 3020insC [-/C] | Exon11 | Allele “+”: 0.1% | 99.2% | 0.98 | -: 100% +: 0% | -: 100% +: 0% |
| <i>NOD2</i> | Rs2066845 G908R (SNP12) | C/G | Exon8 | Allele “C”: 0.3% | 98.9% | 0.96 | C: 1.7% G: 98.3% | C: 0% G: 100% |
| <i>NOD2</i> | Rs2066844 R702W (SNP8) | C/T | Exon4 | Allele “T”: 0.6% | 95.5% | 0.92 | C: 89% T: 11% | C: 100% T: 0% |
| <i>NOD2</i> | Rs2066842 P268S (SNP5) | C/T (ancestral allele C) | Exon4 | Allele “T”: 4.4% | 98.9% | 0.38 | C: 63.8% T: 36.2% | C: 100% T: 0% |
| <i>NOD2</i> | rs35285618 R708H | A/G | Exon4 | Allele “A”: 1.4% | 95.5% | 0.80 | -- | -- |
| <i>NOD2</i> | rs5743279 R790Q | A/G (ancestral allele G) | Exon4 | Allele “A”: 4.0% | 95% | 0.04 | A: 0% G: 100% | A: 2.5% G: 97.5% |
| <i>NOD2</i> | rs5743278 A725G | C/G (ancestral allele C) | Exon4 | Allele “G”: 4.4% | 95.5% | 0.63 | C: 100% G: 0% | C: 91.7% G: 8.3% |
| <i>ATG16L1</i> | Rs2241880 Thr300Ala | A/G (ancestral allele T) | Exon8 | Allele “G”:29.3% | 98.6% | 0.72 | T: 45.8% C: 54.2% | T: 72.5% C: 27.5% |
| <i>IBD5_OCTN1</i> <i>SLC22A4</i> | Rs1050152 Leu503Phe | C/T (ancestral allele C) | Exon9 | Allele “T”: 7.6% | 98.9% | 0.44 | C: 54.2% T: 45.8% | C: 100% T: 0.0% |
| <i>IBD5_OCTN2</i> <i>SLC22A5</i> | Rs2631367 | C/G (ancestral allele C) | Promoter -207 | Allele “C”:35.7% | 97.9% | 0.07 | C: 51.7% G: 48.3% | C: 60.4% G: 39.6% |
| <i>IBD5_OCTN2</i> <i>IGR2230</i> | Rs17622208 | A/G (ancestral allele G) | Intron2 | Allele “A”:18.7% | 97.6% | 0.15 | A: 50.8% G: 49.2% | A: 10% G: 90% |
| <i>IBD5_IGR2198</i> | Rs11739135 | C/G (ancestral allele G) | 3'-UTR | Allele “G”:11.3% | 96.6% | 0.46 | C: 42.5% G: 57.5% | G: 98.3% C: 1.7% |
| <i>IBD5_IGR2096</i> | Rs12521868 | G/T | intergenic | Allele “T”:11.7% | 97.1% | 0.16 | G: 55% | G: 99.2% |

| | | | | | | | | |
|--------------|------------|----------------------|------------|-------------------|-------|------|----------|----------|
| | | (ancestral allele G) | | | | | T: 45% | T: 0.8% |
| <i>IL23R</i> | Rs7517847 | G/T | Intron6 | Allele "G":21.4% | 98.6% | 0.20 | G: 50% | G: 11.7% |
| | | (ancestral allele T) | | | | | T: 50% | T: 88.3% |
| <i>IL23R</i> | Rs2201841 | C/T | Intron7 | Allele "G": 13.8% | 98.3% | 0.55 | C: 27.5% | C: 10.8% |
| | | | | | | | T: 72.5% | T: 89.2% |
| <i>IL23R</i> | Rs11209026 | A/G | Exon9 | Allele "A": 2.56% | 98.6% | 0.62 | A: 6.8% | A: 1.7% |
| | Arg381Gln | (ancestral allele G) | | | | | G: 93.2% | G: 98.3% |
| <i>IL23R</i> | Rs1495965 | A/G | intergenic | Allele "G": 44.5% | 98.3% | 0.30 | A: 58.8% | A: 53.3% |
| | | (ancestral allele G) | | | | | G: 41.2% | G: 46.7% |
| <i>IL23R</i> | Rs10889677 | A/C | 3'-UTR | Allele "A": 14.7% | 98.2% | 0.81 | A: 27.5% | A: 10% |
| | | (ancestral allele C) | | | | | C: 72.5% | C: 90% |
| <i>IRGM</i> | Rs4958847 | A/G | | Allele "A": 48.7% | 98.6% | 0.40 | A: 9.2% | A: 55% |
| | | (ancestral allele G) | | | | | G: 90.8% | G: 45% |
| <i>IRGM</i> | Rs13361189 | C/T | | Allele "C": 45% | 98.6% | 0.37 | C: 2.5% | C: 53.3% |
| | | (ancestral allele C) | | | | | T: 97.5% | T: 46.7% |
| <i>IRGM</i> | Rs10065172 | C/T | | Allele "T": 45.1% | 98.7% | 0.43 | C: 97.5% | C: 46.5% |
| | | (ancestral allele C) | | | | | T: 2.5% | T: 53.5% |

(SUPPLEMENTARY TABLE 3) Heterogeneity test between primary and secondary replicate dataset

| Marker | primary dataset | | | | | | secondary dataset | | | | | | Q_test | |
|---------------|-----------------|-----------|------|------|---------|---------|-------------------|-----------|------|------|---------|---------|--------|--|
| | OR | 95%CI | P | MAF | D.ca/ct | d.ca/ct | OR | 95%CI | P | MAF | D.ca/ct | d.ca/ct | P | |
| NOD2_Cins | - | - | 0.02 | 0.01 | 7/0 | 447/398 | 1.23 | 0.08-19.7 | 1.00 | 0.00 | 1/1 | 247/303 | 0.07 | |
| NOD2.G908R_GC | 1.75 | 0.16-19.3 | 1.00 | 0.00 | 2/1 | 452/395 | 2.45 | 0.22-27.1 | 0.59 | 0.01 | 2/1 | 246/301 | 0.85 | |
| NOD2.R702W_CT | 2.00 | 0.51-7.79 | 0.36 | 0.01 | 2/3 | 435/373 | 4.67 | 0.52-42.1 | 0.19 | 0.01 | 4/1 | 244/285 | 0.51 | |
| NOD2.P268S_CT | 1.54 | 0.87-2.72 | 0.16 | 0.06 | 34/20 | 418/378 | 2.07 | 0.96-4.47 | 0.08 | 0.05 | 18/11 | 230/291 | 0.54 | |
| NOD2.R708H_GA | 1.06 | 0.28-3.99 | 1.00 | 0.01 | 5/4 | 437/372 | 1.63 | 0.51-5.21 | 0.56 | 0.02 | 7/5 | 241/281 | 0.63 | |
| NOD2.R790Q_GA | 0.98 | 0.46-2.09 | 1.00 | 0.03 | 15/13 | 427/363 | 1.07 | 0.50-2.33 | 1.00 | 0.05 | 13/14 | 235/272 | 0.87 | |
| NOD2.A725G_CG | 1.20 | 0.61-2.36 | 0.61 | 0.04 | 21/15 | 421/361 | 0.56 | 0.22-1.42 | 0.27 | 0.04 | 7/14 | 241/272 | 0.19 | |
| ATG16L_AG | 1.47 | 1.10-1.96 | 0.01 | 0.32 | 163/110 | 291/288 | 1.34 | 0.94-1.92 | 0.12 | 0.33 | 89/90 | 155/210 | 0.70 | |
| IBD5.OCTN1_CT | 1.23 | 0.76-2.00 | 0.46 | 0.09 | 43/31 | 411/365 | 1.82 | 1.02-3.23 | 0.04 | 0.10 | 31/22 | 217/280 | 0.31 | |
| IBD5.OCTN2_GC | 1.38 | 1.05-1.83 | 0.02 | 0.39 | 191/137 | 261/259 | 1.10 | 0.78-1.56 | 0.59 | 0.38 | 98/108 | 150/182 | 0.32 | |
| IGR2230_GA | 1.14 | 0.81-1.62 | 0.48 | 0.19 | 88/69 | 358/321 | 1.41 | 0.94-2.10 | 0.10 | 0.23 | 64/60 | 182/240 | 0.44 | |
| IGR2198_CG | 1.29 | 0.82-2.02 | 0.31 | 0.11 | 52/36 | 390/348 | 1.39 | 0.88-2.21 | 0.19 | 0.16 | 45/41 | 201/255 | 0.81 | |
| IGR2096_GT | 1.14 | 0.73-1.76 | 0.58 | 0.11 | 52/40 | 394/344 | 1.63 | 1.03-2.57 | 0.04 | 0.16 | 50/40 | 198/258 | 0.26 | |
| IL23_rs751_GT | 1.02 | 0.73-1.42 | 0.93 | 0.20 | 93/80 | 361/316 | 0.85 | 0.56-1.28 | 0.47 | 0.22 | 49/70 | 193/234 | 0.50 | |
| IL23_rs220_AG | 1.34 | 0.92-1.96 | 0.13 | 0.16 | 78/54 | 370/344 | 1.49 | 0.95-2.34 | 0.10 | 0.16 | 47/43 | 193/263 | 0.73 | |
| IL23_rs112_GA | 1.10 | 0.29-4.13 | 1.00 | 0.01 | 5/4 | 447/395 | 0.80 | 0.34-1.88 | 0.67 | 0.04 | 9/14 | 233/290 | 0.69 | |
| IL23_rs149_TC | 1.18 | 0.89-1.54 | 0.27 | 0.45 | 207/168 | 239/228 | 0.94 | 0.67-1.32 | 0.73 | 0.47 | 112/145 | 132/161 | 0.32 | |
| IL23_rs108_CA | 1.36 | 0.94-1.99 | 0.11 | 0.16 | 79/64 | 369/344 | 1.05 | 0.67-1.66 | 0.91 | 0.17 | 41/49 | 201/253 | 0.39 | |
| IRGM_rs495_GA | 0.88 | 0.67-1.16 | 0.37 | 0.47 | 204/192 | 248/206 | 0.93 | 0.66-1.30 | 0.67 | 0.50 | 119/153 | 125/149 | 0.82 | |
| IRGM_rs133_TC | 0.94 | 0.72-1.23 | 0.68 | 0.44 | 197/178 | 257/218 | 1.05 | 0.75-1.47 | 0.80 | 0.46 | 112/137 | 130/167 | 0.61 | |
| IRGM_rs100_CT | 0.91 | 0.69-1.20 | 0.53 | 0.44 | 194/179 | 258/217 | 1.02 | 0.73-1.43 | 0.93 | 0.45 | 112/137 | 134/167 | 0.64 | |

MAF, minor allele frequency; D.ca/ct, minor allele cases/controls; d.ca/ct, major allele cases/controls

Heterogeneity was assessed by Q statistic. Cochran WG. The combination of estimates from different experiment. Biometrics 1954;10:101-29.

(SUPPLEMENTARY TABLE 4) Association of SNPs among 227 CD and 200 controls in primary dataset

| Candidate Gene | SNP no. | 0 copy of variant allele | | 1 copy of variant allele | | 2 copies of variant allele | | Carrier OR (95%CI) P value | MAF case/control | Minor Allele test OR (95%CI) P value |
|--|--------------------------------|--------------------------|----------|--------------------------|------------------------------|----------------------------|-----------------------------|------------------------------|------------------|--------------------------------------|
| | | Case /control | OR (ref) | Case /control | OR (95%CI) p value | Case /control | OR (95%CI) P value | | | |
| <i>NOD2</i> <i>C_insertion</i> | Rs2066847 1007fs (SNP13) | 220/199 | 1.0 | 7/0 | 8.63 (1.28--) 0.02 | 0/0 | -- | 8.63 (1.28--) 0.02 | 1.54% / 0% | -- |
| <i>NOD2</i> (G->C, variant C) | Rs2066845 G908R (SNP12) | 225/197 | 1.0 | 2/1 | 1.75 (0.16-19.5) 1.00 | 0/0 | -- | 1.75 (0.16-19.5) 1.0 | 0.44% / 0.25% | 1.75 (0.16-19.3) 1.0 |
| <i>NOD2</i> (C->T, variant T) | Rs2066844 R702W (SNP8) | 214/183 | 1.0 | 7/3 | 2.00 (0.51-7.83) 0.32 | 0/0 | -- | 1.99 (0.51-7.83) 0.36 | 1.58% / 0.81% | 1.98 (0.51-7.71) 0.36 |
| <i>NOD2</i> (C->T, variant T) | Rs2066842 P268S (SNP5) | 196/179 | 1.0 | 26/20 | 1.19 (0.64-2.20) 0.58 | 4/0 | 4.79 (0.59--) | 1.37 (0.75-2.50) 0.37 | 7.52% / 5.03% | 1.54 (0.87-2.72) 0.16 |
| <i>NOD2</i> (G->A, variant A) | rs35285618 R708H | 216/182 | 1.0 | 5/4 | 1.05 (0.28-3.98) 1.00 | 0/0 | -- | 1.05 (0.28-3.98) 1.0 | 1.13% / 1.07% | 1.05 (0.28-3.95) 1.0 |
| <i>NOD2</i> (G->A, variant A) | rs5743279 R790Q | 206/172 | 1.0 | 15/12 | 1.04 (0.48-2.29) 1.00 | 0/0 | -- | 1.04 (0.48-2.29) 1.0 | 3.39% / 3.26% | 1.04 (0.48-2.26) 1.0 |
| <i>NOD2</i> (C->G, variant G) | rs5743278 A725G | 201/172 | 1.0 | 19/15 | 1.08 (0.53-2.20) 0.82 | 1/0 | 0.85 (0.02--) | 1.14 (0.57-2.29) 0.73 | 4.75% / 4.01% | 1.19 (0.61-2.35) 0.74 |
| <i>ATG16L1</i> (A->G, variant G) | Rs2241880 Thr300Ala | 91/108 | 1.0 | 109/72 | 1.80 (1.19-2.70) 0.005 | 27/19 | 1.69 (0.88-3.23) 0.11 | 1.77 (1.21-2.61) 0.004 | 35.9% / 27.6% | 1.47 (1.10-1.96) 0.01 |
| <i>IBD5_OCTN1</i> <i>SLC22A4</i> (C->T, variant T) | Rs1050152 Leu503Phe | 190/167 | 1.0 | 31/31 | 0.88 (0.51-1.51) 0.64 | 6/0 | 7.12 (1.02--) | 1.05 (0.62-1.77) 0.90 | 9.47% / 7.83% | 1.23 (0.76-2.00) 0.46 |
| <i>IBD5_OCTN2</i> <i>SLC22A5</i> (G->C, variant C) | Rs2631367 | 79/82 | 1.0 | 103/95 | 1.13 (0.74-1.71) 0.58 | 44/21 | 2.17 (1.19-3.98) 0.01 | 1.32 (0.89-1.95) 0.19 | 42.2% / 34.6% | 1.38 (1.05-1.82) 0.02 |
| <i>IBD5_OCTN2</i> <i>SLC22A5</i> <i>IGR2230</i> (G->A, variant A) | Rs17622208 | 145/128 | 1.0 | 68/65 | 0.92 (0.61-1.40) 0.71 | 10/2 | 4.40 (0.91-41.9) 0.07 | 1.03 (0.69-1.54) 0.92 | 19.7% / 17.7% | 1.14 (0.81-1.62) 0.48 |
| <i>IBD5_IGR2198</i> (C->G, variant G) | Rs11739135 | 177/156 | 1.0 | 36/36 | 0.88 (0.53-1.47) 0.63 | 8/0 | 9.65 (1.47--) | 1.08 (0.66-1.76) 0.80 | 11.7% / 9.37% | 1.29 (0.82-2.02) 0.31 |
| <i>IBD5_IGR2096</i> | Rs12521868 | 178/152 | 1.0 | 38/40 | 0.81 | 7/0 | 8.13 | 0.96 | 11.7% / | 1.14 |

| | | | | | | | | | | |
|-----------------------------|------------|---------|-----|---------|-------------|-------|-------------|-------------|---------|-------------|
| <i>(G->T, variant T)</i> | | | | | (0.50-1.33) | | (1.21--) | (0.60-1.55) | 10.4% | (0.73-1.76) |
| | | | | | 0.41 | | 0.03 | 0.90 | | 0.58 |
| <i>IL23R</i> | Rs7517847 | 145/123 | 1.0 | 71/70 | 0.86 | 11/5 | 1.87 | 0.93 | 20.5% / | 1.02 |
| <i>(T->G, variant G)</i> | | | | | (0.57-1.29) | | (0.63-5.52) | (0.62-1.38) | 20.2% | (0.73-1.42) |
| | | | | | 0.47 | | 0.26 | 0.76 | | 0.93 |
| <i>IL23R</i> | Rs2201841 | 151/149 | 1.0 | 68/46 | 1.46 | 5/4 | 1.23 | 1.44 | 17.4% / | 1.34 |
| <i>(A->G, variant G)</i> | | | | | (0.94-2.26) | | (0.33-4.68) | (0.94-2.20) | 13.6% | (0.92-1.96) |
| | | | | | 0.09 | | 0.76 | 0.11 | | 0.13 |
| <i>IL23R</i> | Rs11209026 | 221/195 | 1.0 | 5/4 | 1.10 | 0/0 | -- | 1.10 | 1.11% / | 1.10 |
| <i>(G->A, variant A)</i> | | | | | (0.29-4.17) | | | (0.29-4.17) | 1.01% | (0.29-4.13) |
| | Arg381Gln | | | | 0.89 | | | 0.89 | | 1.0 |
| <i>IL23R</i> | Rs1495965 | 63/64 | 1.0 | 113/100 | 1.15 | 47/34 | 1.40 | 1.21 | 46.4% / | 1.17 |
| <i>(T->C, variant C)</i> | | | | | (0.74-1.78) | | (0.80-2.46) | (0.80-1.84) | 42.4% | (0.89-1.54) |
| | | | | | 0.54 | | 0.24 | 0.36 | | 0.26 |
| <i>IL23R</i> | Rs10889677 | 150/149 | 1.0 | 69/46 | 1.49 | 5/4 | 1.24 | 1.47 | 17.6% / | 1.36 |
| <i>(C->A, variant A)</i> | | | | | (0.96-2.31) | | (0.33-4.71) | (0.96-2.25) | 13.5% | (0.94-1.99) |
| | | | | | 0.07 | | 0.75 | 0.09 | | 0.11 |
| <i>IRGM</i> | Rs4958847 | 53/47 | 1.0 | 98/98 | 0.89 | 75/54 | 1.23 | 1.00 | 45.1% / | 0.88 |
| <i>(A->G, variant G)</i> | | | | | (0.55-1.44) | | (0.73-2.08) | (0.64-1.58) | 48.2% | (0.67-1.15) |
| | | | | | 0.62 | | 0.44 | 0.97 | | 0.37 |
| <i>IRGM</i> | Rs13361189 | 45/39 | 1.0 | 107/100 | 0.93 | 75/59 | 1.10 | 0.99 | 43.4% / | 0.93 |
| <i>(C->T, variant T)</i> | | | | | (0.56-1.54) | | (0.64-1.91) | (0.62-1.60) | 44.9% | (0.71-1.23) |
| | | | | | 0.77 | | 0.73 | 0.97 | | 0.67 |
| <i>IRGM</i> | Rs10065172 | 76/58 | 1.0 | 106/101 | 0.80 | 44/39 | 0.86 | 0.82 | 42.9% / | 0.91 |
| <i>(C->T, variant T)</i> | | | | | (0.52-1.24) | | (0.50-1.49) | (0.54-1.24) | 45.2% | (0.69-1.19) |
| | | | | | 0.32 | | 0.59 | 0.34 | | 0.53 |

(SUPPLEMENTARY TABLE 5) Diplotype association test for *IBD5*

| <u>diplotype:</u> | <u>freq.case</u> | <u>freq.ctrl</u> | <u>OR</u> | <u>95%CI</u> | <u>P value</u> |
|-------------------|------------------|------------------|------------|-----------------|----------------|
| CGGCG/CGGCG | 0.33 | 0.35 | 1.00 (ref) | - | - |
| CGGCG/CCGCG | 0.23 | 0.26 | 0.91 | 0.60-1.37 | 0.7 |
| CGGCG/TCAGT | 0.09 | 0.11 | 0.93 | 0.52-1.64 | 0.88 |
| CGGCG/CCACG | 0.10 | 0.10 | 0.98 | 0.54-1.76 | 1 |
| CCGCG/CCGCG | 0.05 | 0.03 | 1.47 | 0.61-3.65 | 0.47 |
| CCGCG/CCACG | 0.04 | 0.02 | 2.42 | 0.76-9.03 | 0.16 |
| CGGCG/CGAGT | 0.01 | 0.05 | 0.25 | 0.03-1.31 | 0.12 |
| CGAGT/CCGCG | 0.00 | 0.02 | 0.42 | 0-5.46 | 0.51 |
| CCGCG/TCAGT | 0.04 | 0.03 | 1.41 | 0.56-3.70 | 0.56 |
| CGGCG/TCAGT | 0.01 | 0.00 | 3.02 | 0.24-160 | 0.63 |
| TCAGT/TCAGT | 0.02 | 0.00 | 8.14 | 1.16 - ∞ | 0.03 |
| CCACG/TCAGT | 0.02 | 0.01 | 3.02 | 0.53-31 | 0.3 |
| CCGCG/CCAGT | 0.01 | 0.00 | 5.27 | 0.65 - ∞ | 0.13 |
| CCACG/CCACG | 0.00 | 0.01 | 0.34 | 0.006-4.28 | 0.64 |
| CGAGT/CGAGT | 0.00 | 0.01 | 0.51 | 0.008-9.8 | 1 |

Diplotype association used PHASE Bayesian approach and partition-ligation algorithm to reconstruct haplotypes and estimate diplotype probabilities for CD and HC, separately. (Stephens M, Smith NJ, Donnelly P. A new statistical method for haplotype reconstruction from population data. *Am J Hum Genet* 2001;68:978-89.) In the regression model, (CD served as the dependent variables, and the diplotype probabilities served as continuous variables.

(SUPPLEMENTARY TABLE 6)

Power calculation: Sample size 354 cases and 1:1 control; CD Population risk: 50/100,000; 2-sided p value 0.05;

| | Allele freq in present study data and OR estimates from prior and present studies | Power Estimate |
|-------------------------------|--|-----------------------|
| <i>NOD2</i> any mutant | Allele freq 1.03% in study AA HCs | |
| | OR 3.2 (whites) ³⁸ , log. additive mode | 83% |
| | OR 3.3 (present data), log. additive mode | 86% |
| <i>SLC22A4</i> (variant C) | Allele freq 7.6% in study AA HCs | |
| | OR 1.7 (white) ³⁰ dominant mode | 78% |
| | OR 8.4 (present data), recessive mode | 95% |
| <i>SLC22A5</i> (variant C) | Allele freq 35.7% in study AA HCs | |
| | OR 2.0 (white) ³⁰ , dominant mode | 99% |
| | OR 1.9 (present data), recessive mode | 87% |
| ATG16L1 | Allele freq 29.3% in study AA HCs | |
| | OR 2.0 (white) ³⁰ , dominant mode | 99% |
| | OR 1.4 (present data), dominant mode | 62% |
| <i>IL23R</i> rs2201841 | Allele freq 13.8% in study AA HCs | |
| | OR 2.2 (white) ³⁰ , dominant mode | 99% |
| | OR 1.3 (present data), dominant mode | 35% |
| <i>IRGM</i> rs13361189 | Allele freq 45% in study AA HCs | |
| | OR 1.4 - 1.6 (white) ¹⁹ , dominant mode* | 51 - 78% |

*Taken from allelic OR. Data for mode of inheritance not available. Dominant mode assumed over additive mode as more conservative. OR from Ref 19 was 1.6, a slightly larger cohort than the Wellcome Trust discovery cohort (allelic OR of 1.4). *IRGM* power estimates are not given from present study data as OR was 0.98 (Table 2).