Supplemental Material

Table 4: Phenotypic characteristics of the IBD patients by ancestry

Group	Non-Jewish	y Jewish
Unaffected (n)	1636	1036
Male / female (%)	749/887 (45.8/54.2)	485/551 (46.8/53.2)
Age, mean ± s.d. (range)	43.9 ± 11.7 (17-83)	56.4 ± 11.7 (15-97)
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CD (n)	1304	669
Male / female (%)	589/715 (45.2/54.8)	344/325 (51.4/48.6)
Age, mean ± s.d. (range)	39.8 ± 14.7 (6-85)	43.7 ± 15.5 (9-100)
Age at diagnosis, mean ± s.d. (range)	23.3 ± 10.4 (1-80)	21.3 ± 10.9 (2-67)
UC (n)	1037	189
Male / female (%)	524/513 (50.5/49.5)	104/85 (55/45)
Age, mean ± s.d. (range)	42.3 ± 16.1 (4-90)	44.8 ± 18.2 (12-84)
Age at diagnosis, mean ± s.d. (range)	29.6 ± 14.5 (2-82)	22.5± 12 (3-77)
Age at diagnosis of CD (Montreal A)		
A1 <16 years	305 (23.4)	205 (30.6)
A2 17 – 40 years	821 (63)	295 (44.1
A3 > 40 years	74 (5.7)	38 (5.7)
years	(3., /	20 (31.7)
Age at diagnosis of UC (Montreal A)		
A1 <16 years	178 (17.2)	39 (20.6)
A2 17 – 40 years	611 (58.9)	99 (52.4)
A3 > 40 years	205 (19.8)	29 (15.3)
Disease behavior, CD (Montreal B)*		
B1 non-stricturing, non-penetrating	341 (26.2)	173 (25.9)
B2 stricturing	182 (14.0)	124 (18.5)
B3 penetrating - excludes perianal	264 (20.2)	141 (21.1)
Discours Installed CD (Rd. 11.11)		
Disease location, CD (Montreal L)	407 (20.4)	250 /27 4\
L1 ileal	497 (38.1)	250 (37.4)
L2 colonic	98 (7.5)	57 (8.5)
L3 ileocolonic	637 (48.8)	345 (51.6)
Perianal only	6	1
Disease location, UC (Montreal E)		
E1 ulcerative proctitis	108 (10.4)	17 (9.0)
E2 left-sided UC (distal UC)	289 (27.9)	61 (32.3)
E3 extensive UC (pancolitis)	600 (57.9)	91 (4.8)
	000 (37.3)	J± (¬.0)

^{*}values from case-control data

Table 5: Case-Control Cohort Additional Phenotypic Information

	CD	UC	Unaffected
Jewish, y/n (% yes)	471/799 (36.9)	90/807 (10)	765/825 (47.8)
Appendectomy, y/n (% yes)	441/481 (34.5)	170/704 (18.9)	48/528 (3)
Smokers			
No at diagnosis	774	607	379
Yes at diagnosis	258	91	71
Ex-smoker at diagnosis	102	190	131
Surgery for CD, y/n (% yes)	669/444 (52.4)		
Surgery for UC, y/n (% yes)		173/724 (19.2)	

Table 6: Logistic regression

	Odds Ratio (95% C.I.)	P value
Odds of IBD		
IRF5 Genotypes		
rs4728142 (A vs G)	0.68 (0.52-0.88)	0.004
Indel5 (A vs G)	0.92 (0.76-1.13)	0.44
rs7808907 (C vs T)	1.28 1.02-1.61)	0.03
Odds of Ulcerative colitis	S	
IRF5 Genotypes		
rs4728142 (A vs G)	0.70 (0.52-0.94)	0. 02
Indel5 (A vs G)	0.94 (0.74-1.18)	0.58
rs7808907 (C vs T)	1.34 (1.03-1.73)	0.03
Odds of Crohn's Disease		
IRF5 Genotypes		-
rs4728142 (A vs G)	0.66 (0.51-0.92)	0.01
Indel5 (A vs G)	0.90 (0.72-1.12)	0.36
rs7808907 (C vs T)	1.44 (1.11-1.86)	0.006
NOD2 SNPs*		
1 or more risk alleles	2.68 (1.97-3.64)	<0.0001

^{*}NOD2 SNPs include rs2066844, rs2066845 and rs2066847;

A multivariate logistic regression model to estimate the effects of the three polymorphisms; IBD, Crohn's and Ulcerative colitis, patients and controls were divided into subgroups according to risk allele counts. Individuals carrying no risk alleles for each of the 3 SNPs served as the reference groups. No significant associations were found when considering other features of clinical value.