

Table S3. Single nucleotide polymorphisms (SNPs) of innate immune response related pathways and risk of breast cancer by menopausal status among 650 European American and 864 African American women in the WCHS

Gene	SNP	Genotype	European American						African American					
			Pre-menopausal women			Post-menopausal women			Pre-menopausal women			Post-menopausal women		
			# Case/ Control	OR (95% CI) ^{a,b}	P ^{c,d}	# Case / Control	OR (95% CI) ^{a,b}	P ^{c,d}	# Case / Control	OR (95% CI) ^{a,b}	P ^{c,d}	# Case / Control	OR (95% CI) ^{a,b}	P ^{c,d}
TNFA	rs1799964	TT	112/102	1.00 (ref)	0.58	86/96	1.00 (ref)	0.43	155/145	1.00 (ref)	0.09	155/141	1.00 (ref)	0.45
		TC	64/55	1.19 (0.72-1.94)		47/41	1.24 (0.73-2.10)		73/40	1.86 (1.17-2.95)		50/62	0.75 (0.47-1.19)	
		CC	8/6	1.06 (0.32-3.46)		7/7	1.26 (0.39-4.03)		11/10	0.95 (0.37-2.40)		10/6	1.14 (0.38-3.39)	
		TC/CC	72/61	1.17 (0.73-1.89)	0.51	54/48	1.24 (0.75-2.06)	0.40	84/50	1.67 (1.08-2.57)	0.02	60/68	0.79 (0.51-1.22)	0.29
TNFA	rs1800630	CC	133/115	1.00 (ref)	0.75	100/109	1.00 (ref)	0.26	179/159	1.00 (ref)	0.12	168/161	1.00 (ref)	0.75
		CA	46/46	0.91 (0.54-1.52)		39/35	1.24 (0.71-2.15)		54/29	1.86 (1.11-3.14)		44/47	0.91 (0.55-1.48)	
		AA	6/4	0.97 (0.23-4.11)		4/2	2.55 (0.42-15.41)		5/6	0.77 (0.22-2.69)		4/2	1.05 (0.17-6.34)	
		CA/AA	52/50	0.91 (0.55-1.50)	0.72	43/37	1.30 (0.76-2.23)	0.34	59/35	1.67 (1.02-2.72)	0.04	48/49	0.91 (0.56-1.48)	0.71
TNFA	rs1799724	CC	118/128	1.00 (ref)	0.004	97/103	1.00 (ref)	0.73	224/184	1.00 (ref)	0.24	204/189	1.00 (ref)	0.08
		CT	56/28	2.30 (1.31-4.04)		37/38	1.11 (0.63-1.95)		15/10	1.68 (0.70-4.02)		11/20	0.49 (0.22-1.09)	
		TT	7/4	2.38 (0.61-9.32)		3/3	1.07 (0.20-5.66)		0/0	n/a		0/0	n/a	
		CT/TT	63/32	2.31 (1.35-3.95)	0.002	40/41	1.11 (0.64-1.92)	0.71		n/a			n/a	
TNFA	rs1800629	GG	138/110	1.00 (ref)	0.35	95/115	1.00 (ref)	0.09	188/152	1.00 (ref)	0.60	163/158	1.00 (ref)	0.75
		GA	38/49	0.67 (0.39-1.14)		38/31	1.50 (0.85-2.65)		46/38	0.91 (0.55-1.50)		50/48	1.00 (0.62-1.61)	
		AA	4/2	1.94 (0.30-12.60)		3/1	3.36 (0.33-34.07)		5/5	0.76 (0.21-2.80)		2/4	0.54 (0.09-3.19)	
		GA/AA	42/51	0.71 (0.42-1.20)	0.20	41/32	1.56 (0.89-2.73)	0.12	51/43	0.89 (0.55-1.44)	0.64	52/52	0.96 (0.60-1.54)	0.87
TNFA	rs361525	GG	158/148	1.00 (ref)	0.15	125/128	1.00 (ref)	0.42	220/181	1.00 (ref)	0.81	199/192	1.00 (ref)	0.71
		GA	22/12	1.84 (0.80-4.25)		11/15	0.64 (0.26-1.53)		19/13	1.09 (0.51-2.33)		16/16	0.98 (0.45-2.11)	
		AA	0/0	n/a		1/1	1.22 (0.07-22.45)		0/0	n/a		0/1	n/a	
		GA/AA		n/a		12/16	0.66 (0.28-1.56)	0.35		n/a		16/17	0.92 (0.43-1.96)	0.83
TNFRSF1A	rs767455	TT	58/54	1.00 (ref)	0.56	44/42	1.00 (ref)	0.88	83/86	1.00 (ref)	0.15	86/91	1.00 (ref)	0.78
		TC	95/91	0.91 (0.55-1.52)		67/70	0.91 (0.52-1.59)		129/86	1.59 (1.05-2.42)		102/90	1.22 (0.79-1.88)	
		CC	33/21	1.37 (0.66-2.82)		32/34	0.96 (0.49-1.89)		27/23	1.23 (0.64-2.36)		26/29	0.96 (0.51-1.81)	
		TC/CC	128/112	0.99 (0.61-1.62)	0.98	99/104	0.92 (0.55-1.56)	0.76	156/109	1.51 (1.01-2.26)	0.04	128/119	1.16 (0.77-1.74)	0.48
TNFRSF1A	rs4149570	GG	58/57	1.00 (ref)	0.25	63/58	1.00 (ref)	0.91	190/155	1.00 (ref)	0.95	164/159	1.00 (ref)	0.91
		GT	101/83	1.42 (0.85-2.38)		57/71	0.74 (0.43-1.25)		46/37	1.01 (0.61-1.68)		46/49	0.82 (0.50-1.35)	
		TT	27/25	1.39 (0.68-2.85)		23/17	1.29 (0.61-2.72)		3/3	1.07 (0.20-5.85)		6/2	2.51 (0.45-13.82)	
		GT/TT	128/108	1.41 (0.86-2.32)	0.17	80/88	0.84 (0.51-1.39)	0.50	49/40	1.01 (0.61-1.67)	0.97	52/51	0.88 (0.54-1.43)	0.61

CCL2	rs1024611	TT	99/96	1.00 (ref)	0.60	65/75	1.00 (ref)	0.65	147/138	1.00 (ref)	0.10	139/130	1.00 (ref)	0.31
		TC	77/55	1.27 (0.78-2.05)		67/61	1.29 (0.78-2.12)		86/53	1.48 (0.96-2.28)		74/70	0.96 (0.63-1.46)	
		CC	9/12	0.93 (0.35-2.46)		9/10	0.84 (0.29-2.42)		6/4	1.29 (0.34-4.81)		3/10	0.33 (0.08-1.29)	
		TC/CC	86/67	1.21 (0.76-1.92)	0.42	76/71	1.23 (0.76-2.00)	0.41	92/57	1.47 (0.96-2.24)	0.07	77/80	0.88 (0.58-1.34)	0.56
CCL2	rs2857656	GG	93/94	1.00 (ref)	0.55	64/72	1.00 (ref)	0.64	84/80	1.00 (ref)	0.46	77/74	1.00 (ref)	0.93
		GC	75/53	1.34 (0.82-2.20)		62/59	1.21 (0.73-2.02)		104/85	1.10 (0.71-1.70)		100/102	0.84 (0.54-1.31)	
		CC	8/12	0.86 (0.31-2.39)		9/9	0.98 (0.33-2.89)		42/30	1.24 (0.69-2.22)		34/30	1.13 (0.61-2.10)	
		GC/CC	83/65	1.27 (0.79-2.03)	0.33	71/68	1.18 (0.72-1.95)	0.51	146/115	1.14 (0.76-1.71)	0.54	134/132	0.90 (0.59-1.38)	0.64
CCL2	rs4586	TT	63/78	1.00 (ref)	0.04	46/63	1.00 (ref)	0.77	26/31	1.00 (ref)	0.05	26/14	1.00 (ref)	0.87
		TC	90/64	1.71 (1.03-2.85)		78/64	1.70 (1.00-2.90)		99/92	1.26 (0.68-2.35)		90/111	0.35 (0.17-0.74)	
		CC	23/17	1.83 (0.83-4.03)		12/20	0.68 (0.28-1.64)		110/72	1.76 (0.93-3.33)		97/84	0.53 (0.25-1.13)	
		TC/CC	113/81	1.74 (1.07-2.81)	0.03	90/84	1.45 (0.87-2.41)	0.15	209/164	1.46 (0.81-2.64)	0.21	187/195	0.43 (0.21-0.88)	0.02
CCL2	rs13900	CC	99/96	1.00 (ref)	0.54	65/75	1.00 (ref)	0.59	147/137	1.00 (ref)	0.14	139/129	1.00 (ref)	0.28
		CT	77/55	1.27 (0.78-2.05)		67/62	1.27 (0.77-2.10)		86/54	1.45 (0.94-2.24)		74/69	0.97 (0.63-1.48)	
		TT	9/11	0.99 (0.37-2.66)		9/9	0.92 (0.31-2.70)		5/4	1.09 (0.28-4.28)		2/10	0.25 (0.05-1.19)	
		CT/TT	86/66	1.22 (0.77-1.95)	0.39	76/71	1.23 (0.76-2.00)	0.41	91/58	1.43 (0.94-2.18)	0.10	76/79	0.89 (0.58-1.34)	0.57
CCL5	rs3817655	TT	121/108	1.00 (ref)	0.60	88/94	1.00 (ref)	0.99	80/63	1.00 (ref)	0.94	75/68	1.00 (ref)	0.82
		TA	54/47	0.90 (0.54-1.52)		45/51	0.92 (0.54-1.57)		113/100	0.84 (0.54-1.31)		92/98	0.78 (0.49-1.23)	
		AA	5/6	0.77 (0.21-2.85)		4/2	1.67 (0.27-10.11)		46/32	1.04 (0.58-1.86)		49/44	0.98 (0.57-1.70)	
		TA/AA	59/53	0.89 (0.54-1.46)	0.64	49/53	0.96 (0.57-1.61)	0.87	159/132	0.89 (0.58-1.35)	0.58	141/142	0.84 (0.55-1.29)	0.43
CCL5	rs2280789	TT	132/132	1.00 (ref)	0.27	102/104	1.00 (ref)	0.79	148/135	1.00 (ref)	0.14	143/132	1.00 (ref)	0.97
		TC	52/31	1.58 (0.91-2.75)		39/41	0.93 (0.54-1.60)		84/53	1.42 (0.92-2.18)		58/61	0.99 (0.62-1.56)	
		CC	2/3	0.54 (0.08-3.69)		2/2	0.94 (0.11-7.86)		7/5	1.29 (0.39-4.34)		13/12	1.05 (0.45-2.47)	
		TC/CC	54/34	1.48 (0.86-2.53)	0.16	41/43	0.93 (0.54-1.59)	0.78	91/58	1.41 (0.93-2.14)	0.11	71/73	1.00 (0.65-1.53)	0.99
CCL5	rs2107538	CC	119/108	1.00 (ref)	0.85	86/92	1.00 (ref)	0.81	81/62	1.00 (ref)	0.92	75/69	1.00 (ref)	0.87
		CT	56/46	1.06 (0.64-1.77)		47/48	1.05 (0.61-1.78)		114/103	0.82 (0.53-1.27)		91/96	0.79 (0.50-1.24)	
		TT	4/6	0.62 (0.16-2.48)		4/3	1.19 (0.24-5.88)		44/29	1.06 (0.58-1.92)		49/44	1.00 (0.58-1.72)	
		CT/TT	60/52	1.01 (0.62-1.66)	0.97	51/51	1.06 (0.63-1.78)	0.84	158/132	0.87 (0.57-1.33)	0.52	140/140	0.85 (0.56-1.30)	0.46
CXCL5	rs425535	GG	132/127	1.00 (ref)	0.22	113/113	1.00 (ref)	0.22	95/59	1.00 (ref)	0.006	73/83	1.00 (ref)	0.23
		GA	41/31	1.37 (0.77-2.44)		24/32	0.69 (0.37-1.28)		116/99	0.68 (0.44-1.05)		108/99	1.28 (0.82-2.01)	
		AA	7/3	1.67 (0.37-7.41)		1/2	0.62 (0.05-7.27)		28/37	0.43 (0.23-0.80)		35/28	1.39 (0.75-2.58)	
		GA/AA	48/34	1.40 (0.81-2.43)	0.23	25/34	0.68 (0.37-1.25)	0.21	144/136	0.61 (0.40-0.93)	0.02	143/127	1.31 (0.86-2.00)	0.21
CRP	rs1205	CC	88/53	1.00 (ref)	0.004	57/65	1.00 (ref)	0.13	150/126	1.00 (ref)	0.83	131/131	1.00 (ref)	0.96

		CT	75/79	0.61 (0.37-1.01)		62/70	1.11 (0.65-1.87)		81/54	1.36 (0.88-2.11)		74/67	1.08 (0.70-1.67)	
		TT	16/26	0.34 (0.16-0.75)		17/9	2.40 (0.95-6.04)		8/14	0.43 (0.17-1.09)		10/11	0.79 (0.30-2.06)	
		CT/TT	91/105	0.54 (0.33-0.87)	0.01	79/79	1.26 (0.76-2.08)	0.36	89/68	1.16 (0.77-1.74)	0.49	84/78	1.04 (0.69-1.58)	0.85
CRP	rs1130864	CC	79/85	1.00 (ref)	0.15	71/72	1.00 (ref)	0.76	153/129	1.00 (ref)	0.47	137/137	1.00 (ref)	0.87
		CT	80/56	1.67 (1.01-2.76)		54/62	0.87 (0.52-1.45)		54/43	0.90 (0.55-1.47)		45/46	1.01 (0.61-1.67)	
		TT	20/17	1.29 (0.58-2.86)		12/7	1.66 (0.60-4.60)		6/7	0.66 (0.21-2.09)		9/11	0.88 (0.34-2.26)	
		CT/TT	100/73	1.59 (0.99-2.55)	0.06	66/69	0.95 (0.58-1.56)	0.85	60/50	0.87 (0.54-1.38)	0.55	54/57	0.99 (0.62-1.57)	0.95
CRP	rs1800947	GG	161/137	1.00 (ref)	0.33	119/125	1.00 (ref)	0.78	235/191	1.00 (ref)	0.96	215/201	1.00 (ref)	0.98
		GC	19/22	0.70 (0.34-1.44)		18/18	1.24 (0.59-2.60)		4/3	1.04 (0.22-4.99)		0/8	n/a	
		CC	1/1	0.67 (0.04-12.69)		0/1			0/0	n/a		0/0	n/a	
		GC/CC	20/23	0.70 (0.35-1.41)	0.32	18/19	1.18 (0.57-2.45)	0.66		n/a			n/a	
IL1A	rs17561	GG	87/79	1.00 (ref)	0.81	71/75	1.00 (ref)	1.00	167/143	1.00 (ref)	0.84	144/144	1.00 (ref)	0.29
		GT	78/65	1.16 (0.71-1.89)		60/53	1.37 (0.82-2.30)		67/46	1.19 (0.75-1.89)		64/62	1.18 (0.75-1.84)	
		TT	20/22	0.78 (0.37-1.64)		12/19	0.72 (0.31-1.65)		5/6	0.65 (0.19-2.22)		7/4	1.90 (0.51-7.07)	
		GT/TT	98/87	1.06 (0.67-1.67)	0.81	72/72	1.20 (0.74-1.95)	0.46	72/52	1.12 (0.72-1.74)	0.61	71/66	1.22 (0.79-1.88)	0.38
IL1A	rs1800587	CC	86/79	1.00 (ref)	0.99	69/74	1.00 (ref)	0.96	85/79	1.00 (ref)	0.93	78/76	1.00 (ref)	0.79
		CT	78/62	1.22 (0.74-1.99)		60/54	1.32 (0.78-2.21)		118/83	1.20 (0.78-1.86)		97/103	0.92 (0.59-1.43)	
		TT	20/21	0.84 (0.40-1.77)		12/18	0.77 (0.33-1.77)		36/33	0.88 (0.49-1.59)		40/31	1.15 (0.63-2.08)	
		CT/TT	98/83	1.12 (0.71-1.77)	0.64	72/72	1.18 (0.72-1.92)	0.51	154/116	1.11 (0.74-1.68)	0.61	137/134	0.97 (0.64-1.47)	0.89
IL1B	rs1143634	CC	100/96	1.00 (ref)	0.95	81/84	1.00 (ref)	0.79	176/146	1.00 (ref)	0.43	157/160	1.00 (ref)	0.21
		CT	72/54	1.29 (0.79-2.10)		53/49	1.23 (0.74-2.06)		55/48	0.92 (0.58-1.45)		53/48	1.24 (0.77-2.00)	
		TT	13/13	0.68 (0.28-1.68)		7/13	0.58 (0.21-1.56)		8/1	7.25 (0.88-59.8)		6/2	2.53 (0.47-13.68)	
		CT/TT	85/67	1.16 (0.73-1.84)	0.52	60/62	1.09 (0.67-1.77)	0.73	63/49	1.04 (0.66-1.63)	0.86	59/50	1.29 (0.81-2.07)	0.28
IL1B	rs1143627	TT	87/74	1.00 (ref)	0.71	50/71	1.00 (ref)	0.003	41/33	1.00 (ref)	0.87	31/41	1.00 (ref)	0.67
		TC	79/71	1.06 (0.65-1.73)		62/63	1.49 (0.88-2.52)		114/86	1.11 (0.64-1.94)		104/92	1.35 (0.77-2.38)	
		CC	20/21	0.78 (0.36-1.68)		30/12	3.50 (1.55-7.94)		84/76	0.99 (0.56-1.78)		81/77	1.21 (0.67-2.18)	
		TC/CC	99/92	0.99 (0.63-1.58)	0.98	92/75	1.80 (1.09-2.95)	0.02	198/162	1.06 (0.63-1.79)	0.83	185/169	1.29 (0.76-2.19)	0.35
IL1B	rs16944	GG	88/72	1.00 (ref)	0.63	49/71	1.00 (ref)	0.002	56/44	1.00 (ref)	0.88	34/49	1.00 (ref)	0.87
		GA	78/71	0.97 (0.60-1.58)		62/63	1.54 (0.91-2.61)		109/90	1.01 (0.61-1.66)		120/95	1.65 (0.97-2.82)	
		AA	19/20	0.80 (0.37-1.73)		30/12	3.58 (1.58-8.14)		72/61	1.04 (0.60-1.79)		59/64	1.14 (0.63-2.05)	
		GA/AA	97/91	0.93 (0.59-1.48)	0.77	92/75	1.85 (1.12-3.05)	0.02	181/151	1.02 (0.64-1.63)	0.93	179/159	1.44 (0.87-2.39)	0.16
IL1R1	rs2041748	CC	107/94	1.00 (ref)	0.40	86/84	1.00 (ref)	0.76	210/172	1.00 (ref)	0.81	179/177	1.00 (ref)	0.93
		CT	69/59	0.96 (0.59-1.56)		53/59	0.94 (0.57-1.55)		69/59	0.96 (0.59-1.56)		53/59	0.94 (0.57-1.55)	

		TT	10/13	0.59 (0.23-1.51)		4/4	0.85 (0.19-3.75)		2/1	0.98 (0.08-11.43)		2/3	0.71 (0.11-4.69)	
		CT/TT	79/72	0.89 (0.56-1.41)	0.62	57/63	0.93 (0.57-1.52)	0.78	27/23	1.09 (0.58-2.02)	0.79	37/33	1.06 (0.61-1.84)	0.83
IL1R2	rs2228139	CC	165/146	1.00 (ref)	0.78	132/135	1.00 (ref)	0.90	214/175	1.00 (ref)	0.90	191/190	1.00 (ref)	0.71
		CG	19/17	0.97 (0.46-2.07)		9/10	0.94 (0.35-2.53)		23/19	1.02 (0.53-1.96)		24/20	1.14 (0.58-2.21)	
		GG	1/0			0/0			1/1	0.53 (0.03-9.48)		0/0		
		CG/GG	20/17	1.04 (0.50-2.18)	0.92		n/a		24/20	0.99 (0.52-1.88)	0.97		n/a	
IL1RN	rs4251961	TT	80/63	1.00 (ref)	0.99	55/52	1.00 (ref)	0.22	153/133	1.00 (ref)	0.57	157/133	1.00 (ref)	0.04
		TC	68/72	0.76 (0.45-1.26)		70/75	0.88 (0.52-1.50)		79/57	1.16 (0.75-1.79)		51/66	0.68 (0.43-1.08)	
		CC	32/26	1.15 (0.58-2.27)		12/20	0.56 (0.24-1.30)		7/5	1.03 (0.31-3.48)		6/11	0.44 (0.15-1.31)	
		TC/CC	100/98	0.85 (0.53-1.37)	0.51	82/95	0.81 (0.49-1.35)	0.42	86/62	1.15 (0.75-1.76)	0.51	57/77	0.65 (0.42-1.01)	0.06
IL1RN	rs419598	TT	100/83	1.00 (ref)	0.39	67/83	1.00 (ref)	0.24	184/150	1.00 (ref)	0.75	170/155	1.00 (ref)	0.42
		TC	66/58	0.99 (0.60-1.63)		53/48	1.48 (0.87-2.50)		38/33	0.97 (0.57-1.65)		35/40	0.89 (0.52-1.50)	
		CC	13/17	0.61 (0.27-1.42)		11/12	1.25 (0.50-3.16)		4/1	2.85 (0.29-27.91)		2/5	0.48 (0.09-2.68)	
		TC/CC	79/75	0.90 (0.56-1.43)	0.65	64/60	1.43 (0.87-2.36)	0.16	42/34	1.02 (0.61-1.72)	0.93	37/45	0.84 (0.51-1.41)	0.52
IL1RN	rs454078	AA	101/84	1.00 (ref)	0.51	69/80	1.00 (ref)	0.21	207/166	1.00 (ref)	0.94	188/178	1.00 (ref)	0.51
		AT	72/67	0.95 (0.58-1.53)		61/56	1.28 (0.77-2.12)		29/29	0.84 (0.47-1.50)		28/28	1.06 (0.58-1.93)	
		TT	13/15	0.71 (0.30-1.68)		13/10	1.61 (0.64-4.10)		3/0			0/4		
		AT/TT	85/82	0.90 (0.57-1.43)	0.66	74/66	1.33 (0.82-2.15)	0.25	32/29	0.92 (0.52-1.64)	0.78	28/32	0.93 (0.52-1.67)	0.81
IL1RN	rs579543	CC	104/81	1.00 (ref)	0.26	69/78	1.00 (ref)	0.74	185/156	1.00 (ref)	0.58	170/164	1.00 (ref)	0.72
		CT	68/72	0.70 (0.43-1.15)		64/55	1.30 (0.79-2.16)		51/37	1.16 (0.71-1.92)		43/43	1.14 (0.69-1.88)	
		TT	13/13	0.82 (0.34-1.94)		10/13	0.82 (0.32-2.09)		3/2	1.06 (0.17-6.58)		2/3	0.85 (0.13-5.59)	
		CT/TT	81/85	0.72 (0.46-1.15)	0.17	74/68	1.21 (0.75-1.96)	0.44	54/39	1.16 (0.71-1.88)	0.56	45/46	1.12 (0.68-1.83)	0.66
IL6	rs10499563	TT	120/102	1.00 (ref)	0.16	84/99	1.00 (ref)	0.09	152/119	1.00 (ref)	0.53	137/142	1.00 (ref)	0.23
		TC	63/56	0.91 (0.56-1.48)		51/40	1.46 (0.86-2.48)		77/68	0.84 (0.56-1.28)		66/57	1.31 (0.84-2.05)	
		CC	3/8	0.20 (0.05-0.91)		8/6	1.95 (0.62-6.13)		9/7	0.97 (0.33-2.83)		13/9	1.36 (0.54-3.40)	
		TC/CC	66/64	0.82 (0.51-1.31)	0.40	59/46	1.52 (0.92-2.52)	0.10	86/75	0.86 (0.57-1.28)	0.45	79/66	1.32 (0.86-2.01)	0.20
IL6	rs1800797	GG	82/67	1.00 (ref)	0.33	69/56	1.00 (ref)	0.86	211/166	1.00 (ref)	0.61	190/186	1.00 (ref)	0.94
		GA	93/83	1.04 (0.64-1.67)		50/75	0.57 (0.34-0.96)		26/27	0.80 (0.43-1.49)		22/20	0.94 (0.47-1.87)	
		AA	11/16	0.49 (0.20-1.20)		24/15	1.41 (0.65-3.08)		1/0			1/0		
		GA/AA	104/99	0.93 (0.59-1.48)	0.78	74/90	0.70 (0.43-1.15)	0.16	27/27	0.82 (0.44-1.53)	0.54	23/20	0.98 (0.49-1.95)	0.95
IL6	rs1800796	GG	156/147	1.00 (ref)	0.64	125/122	1.00 (ref)	0.33	184/148	1.00 (ref)	0.86	164/171	1.00 (ref)	0.14
		GC	30/18	1.33 (0.67-2.66)		18/23	0.88 (0.44-1.75)		51/46	0.86 (0.54-1.38)		44/36	1.28 (0.76-2.15)	
		CC	0/1			0/2			4/1	2.70 (0.29-25.12)		7/3	2.51 (0.60-10.46)	

IL6	rs1800795	GC/CC	30/19	1.26 (0.64-2.50)	0.51	18/25	0.79 (0.40-1.56)	0.49	55/47	0.91 (0.57-1.44)	0.67	51/39	1.38 (0.84-2.26)	0.21
		GG	81/67	1.00 (ref)	0.56	67/56	1.00 (ref)	0.99	212/168	1.00 (ref)	0.67	193/188	1.00 (ref)	0.66
		GC	91/77	1.11 (0.69-1.81)		52/75	0.62 (0.37-1.05)		25/26	0.80 (0.43-1.51)		22/22	0.86 (0.44-1.68)	
		CC	14/18	0.62 (0.27-1.42)		23/15	1.44 (0.66-3.15)		2/1	1.64 (0.13-19.93)		0/0	n/a	
IL6R	rs2228145	GC/CC	105/95	1.01 (0.63-1.61)	0.97	75/90	0.75 (0.46-1.23)	0.26	27/27	0.84 (0.45-1.55)	0.57		n/a	
		AA	77/61	1.00 (ref)	0.96	47/56	1.00 (ref)	0.34	186/146	1.00 (ref)	0.27	159/146	1.00 (ref)	0.41
		AC	78/80	0.78 (0.48-1.29)		75/65	1.35 (0.79-2.30)		52/43	0.95 (0.59-1.53)		50/61	0.69 (0.43-1.10)	
		CC	31/24	1.19 (0.59-2.39)		21/24	1.31 (0.63-2.76)		1/6	0.16 (0.02-1.34)		6/3	2.01 (0.45-8.89)	
IL8	rs4073	AC/CC	109/104	0.87 (0.54-1.38)		96/89	1.34 (0.81-2.23)	0.25	53/49	0.86 (0.54-1.37)		56/64	0.74 (0.47-1.17)	0.20
		TT	65/60	1.00 (ref)	0.29	48/46	1.00 (ref)	0.18	6/10	1.00 (ref)	0.70	7/12	1.00 (ref)	0.94
		TA	80/79	0.95 (0.57-1.59)		71/71	0.89 (0.51-1.53)		80/61	2.43 (0.81-7.26)		80/77	1.47 (0.53-4.13)	
		AA	35/22	1.62 (0.80-3.29)		18/30	0.59 (0.28-1.23)		149/124	2.15 (0.73-6.39)		124/120	1.36 (0.49-3.80)	
IL8	rs2227306	TA/AA	115/101	1.09 (0.67-1.77)	0.73	89/101	0.80 (0.48-1.33)	0.38	229/185	2.28 (0.78-6.62)	0.13	204/197	1.41 (0.52-3.86)	0.50
		CC	85/69	1.00 (ref)	0.39	57/58	1.00 (ref)	0.37	178/151	1.00 (ref)	0.61	172/161	1.00 (ref)	0.65
		CT	63/67	0.91 (0.54-1.52)		65/61	1.02 (0.6-01.73)		44/32	1.28 (0.75-2.16)		34/31	0.98 (0.55-1.72)	
		TT	27/19	1.61 (0.76-3.40)		13/23	0.61 (0.28-1.37)		4/4	0.75 (0.17-3.20)		1/3	0.36 (0.03-3.72)	
IL16	rs4778889	CT/TT	90/86	1.05 (0.65-1.70)	0.85	78/84	0.91 (0.55-1.50)	0.72	48/36	1.21 (0.73-2.00)	0.46	35/34	0.93 (0.53-1.63)	0.80
		TT	124/102	1.00 (ref)	0.25	101/101	1.00 (ref)	0.86	77/70	1.00 (ref)	0.38	76/76	1.00 (ref)	0.94
		TC	56/55	0.80 (0.48-1.32)		35/37	0.97 (0.55-1.69)		121/96	1.14 (0.73-1.76)		104/96	1.07 (0.69-1.67)	
		CC	4/6	0.48 (0.09-2.54)		7/8	0.92 (0.30-2.80)		36/28	1.30 (0.70-2.40)		33/37	0.94 (0.52-1.71)	
IL17A	rs7747909	TC/CC	60/61	0.77 (0.47-1.26)	0.30	42/45	0.96 (0.57-1.62)	0.87	157/124	1.17 (0.77-1.77)	0.46	137/133	1.04 (0.68-1.58)	0.86
		GG	101/93	1.00 (ref)	0.25	85/82	1.00 (ref)	0.23	191/151	1.00 (ref)	0.81	184/175	1.00 (ref)	0.55
		GA	73/59	1.44 (0.88-2.35)		52/53	0.95 (0.58-1.58)		41/41	0.83 (0.50-1.37)		32/33	0.96 (0.55-1.68)	
		AA	11/11	1.18 (0.45-3.09)		4/11	0.34 (0.10-1.16)		6/3	1.60 (0.37-6.89)		0/2		
IL17A	rs1974226	GA/AA	84/70	1.40 (0.87-2.23)	0.16	56/64	0.85 (0.52-1.39)	0.52	47/44	0.88 (0.55-1.42)	0.61	32/35	0.90 (0.52-1.56)	0.72
		GG	122/110	1.00 (ref)	0.80	94/91	1.00 (ref)	0.73	186/150	1.00 (ref)	0.82	169/170	1.00 (ref)	0.16
		GA	55/50	1.01 (0.61-1.68)		42/51	0.79 (0.47-1.34)		44/37	1.00 (0.61-1.66)		43/36	1.24 (0.74-2.08)	
		AA	8/6	1.23 (0.38-3.97)		7/5	1.34 (0.39-4.58)		8/6	0.81 (0.26-2.46)		3/0		
FGF2	rs308379	GA/AA	63/56	1.04 (0.64-1.68)	0.88	49/56	0.84 (0.51-1.40)	0.51	52/43	0.97 (0.61-1.56)	0.90	46/36	1.34 (0.80-2.23)	0.26
		AA	78/72	1.00 (ref)	0.33	58/73	1.00 (ref)	0.11	158/134	1.00 (ref)	0.92	142/155	1.00 (ref)	0.18
		AT	78/67	1.32 (0.80-2.17)		64/58	1.37 (0.82-2.30)		73/55	0.99 (0.64-1.55)		63/47	1.36 (0.85-2.16)	
		TT	28/24	1.30 (0.65-2.59)		19/15	1.74 (0.78-3.87)		7/6	0.91 (0.28-2.89)		8/6	1.45 (0.47-4.50)	
		AT/TT	106/91	1.31 (0.82-2.10)	0.26	83/73	1.44 (0.89-2.35)	0.14	80/61	0.99 (0.64-1.52)	0.95	71/53	1.37 (0.88-2.13)	0.17

FGF2	rs1048201	CC	132/113	1.00 (ref)	0.63	89/104	1.00 (ref)	0.12	214/171	1.00 (ref)	0.60	181/191	1.00 (ref)	0.12
		CT	45/42	1.05 (0.62-1.79)		41/37	1.26 (0.73-2.18)		23/22	0.79 (0.41-1.51)		34/18	1.86 (0.98-3.51)	
		TT	8/8	1.35 (0.46-3.96)		11/5	2.35 (0.76-7.27)		2/1	1.33 (0.12-15.23)		0/1		
		CT/TT	53/50	1.09 (0.66-1.81)	0.72	52/42	1.39 (0.83-2.33)	0.21	25/23	0.82 (0.44-1.53)	0.52	34/19	1.75 (0.93-3.28)	0.08
NOD2	rs2066842	CC	100/93	1.00 (ref)	0.70	84/75	1.00 (ref)	0.03	210/177	1.00 (ref)	0.23	190/187	1.00 (ref)	0.47
		CT	71/59	0.91 (0.55-1.49)		48/62	0.60 (0.35-1.01)		28/16	1.75 (0.88-3.49)		26/22	1.36 (0.70-2.62)	
		TT	8/9	0.90 (0.32-2.57)		5/10	0.43 (0.13-1.35)		1/2	0.58 (0.05-7.26)		0/1		
		CT/TT	79/68	0.91 (0.56-1.46)	0.69	53/72	0.57 (0.35-0.96)	0.03	29/18	1.64 (0.84-3.21)	0.15	26/23	1.33 (0.69-2.57)	0.39

^a OR, odds ratio; 95%CI, 95% confidence interval

^b Adjusted for age at diagnosis, education, body mass index, family history of breast cancer, history of benign breast disease, smoking status, and proportion of European ancestry.

^c *P*-trend for genetic dose response determined by coding genotypes as having 0, 1, or 2 variant allele, which was subsequently analyzed as an ordinal variable.

^d *P* for heterogeneity from dominant models (heterozygous and homozygous variant combined vs. homozygous common).