

Supplementary Table S1

All analysed SNPs in relation to breast density and breast cancer survival in invasive breast cancer - MDCS								
SNP (gene)	Genotypes	Density			Breast cancer survival*			
		fatty, mixed/ dense	crude OR (CI95%)	adj OR** (CI95%)	Alive/ dead	crude HR	adj1 HR***	adj2 HR****
rs6722781 (2p24.1)	TT (ref)	168/98	1.00	1.00	242/52	1.00	1.00	1.00
Proxy from	TC	184/97	0.90(0.64-1.28)	0.92(0.63-1.34)	240/62	1.22(0.85-1.77)	1.35(0.89-2.07)	1.34(0.88-2.06)
rs12710696	CC	52/20	0.66(0.37-1.17)	0.83(0.45-1.52)	64/12	0.93(0.50-1.74)	1.18(0.60-2.32)	1.14(0.57-2.26)
rs186749 (PRDM6)	GG (ref)	174/79	1.00	1.00	220/54	1.00	1.00	1.00
	GA	175/104	1.31(0.91-1.88)	1.34(0.91-1.97)	245/58	0.99(0.68-1.43)	0.99(0.65-1.49)	0.97(0.64-1.48)
	AA	55/32	1.28(0.77-2.14)	1.35(0.80-2.32)	81 / 14	0.72(0.40-1.30)	0.68(0.36-1.29)	0.67(0.35-1.27)
rs31864 (EBF1)	AA (ref)	140/69	1.00	1.00	177/42	1.00	1.00	1.00
Proxy from	AG	195/106	1.10(0.76-1.60)	1.03(0.70-1.54)	271/63	0.98(0.66-1.45)	1.07(0.69-1.67)	1.06(0.69-1.65)
rs1432679	GG	69/40	1.18(0.72-1.91)	1.07(0.64-1.80)	98/21	0.96(0.57-1.62)	0.89(0.48-1.63)	0.88(0.48-1.62)
rs3757318 (ESR1)	GG (ref)	359/183	1.00	1.00	484/108	1.00	1.00	1.00
	GA	43/29	1.32(0.80-2.19)	1.34(0.78-2.29)	60/15	1.11(0.65-1.91)	1.39(0.75-2.56)	1.40(0.76-2.59)
	AA	2/3	2.94(0.49-17.77)	4.87(0.76-31.27)	2/3	4.49(1.43-14.17)	7.13(2.19-23.17)	7.46(2.28-24.45)
rs9383589 (CCDC170)	AA (ref)	357/179	1.00	1.00	477/108	1.00	1.00	1.00
Proxy from	AG	44/30	1.36(0.83-2.24)	1.34(0.79-2.27)	63/15	1.09(0.64-1.88)	1.17(0.62-2.20)	1.17(0.62-2.20)
rs12665607	GG	2/4	3.99(0.72-21.99)	8.97(1.35-59.57)	3/3	3.32(1.05-10.46)	6.37(1.95-20.82)	6.46(1.95-21.39)
Missing		1/2			3/0			
rs6557161 ESR1	AA (ref)	185/89	1.00	1.00	249/53	1.00	1.00	1.00
Proxy from	AG	183/90	1.02(0.72-1.46)	1.09(0.74-1.59)	241/51	1.03(0.70-1.51)	0.96(0.62-1.48)	0.97(0.62-1.50)
rs2046210	GG	36/36	2.08(1.23-3.52)	2.08(1.19-3.65)	56/22	1.81(1.10-2.98)	2.30(1.34-3.97)	2.30(1.33-3.96)
rs16885613 (NR gene)	TT (ref)	295/154	1.00	1.00	398/91	1.00	1.00	1.00
Proxy from	TC	98/58	1.13(0.78-1.66)	1.22(0.81-1.83)	137/31	1.04(0.69-1.56)	1.21(0.77-1.90)	1.19(0.76-1.88)
rs7816345	CC	11/3	0.52(0.14-1.90)	0.51(0.13-1.96)	11/4	1.52(0.56-4.12)	2.22(0.69-7.14)	2.14(0.65-7.00)
rs10995189 (ZNF365)	GG (ref)	288/163	1.00	1.00	397/93	1.00	1.00	1.00
Proxy from	GA	106/47	0.78(0.53-1.16)	0.71(0.46-1.07)	135/30	0.93(0.62-1.41)	1.17(0.73-1.88)	1.17(0.73-1.88)
rs10995190	AA	10/5	0.88(0.30-2.63)	1.05(0.33-3.38)	14/3	0.91(0.29-2.86)	1.68(0.52-5.45)	1.65(0.50-5.40)

rs3817198 (LSP1)	TT (ref)	186/98	1.00	1.00	254/52	1.00	1.00	1.00
	TC	184/88	0.91(0.64-1.29)	0.87(0.56-1.19)	236/59	1.17(0.80-1.69)	1.22(0.80-1.86)	1.22(0.80-1.87)
	CC	34/29	1.62(0.93-2.81)	1.50(0.83-2.70)	56/15	1.30(0.73-2.30)	1.48(0.77-2.85)	1.48(0.77-2.85)
rs11836367 (NTN4)	CC (ref)	180/101	1.00	1.00	249/58	1.00	1.00	1.00
Proxy for	CT	171/89	0.93(0.65-1.32)	0.97 (0.66-1.41)	230/54	1.02(0.70-1.48)	0.90(0.59-1.38)	0.91(0.60-1.39)
rs17356907	TT	53/25	0.84 (0.49-1.43)	0.80 (0.46-1.41)	67/14	0.87(0.49-1.56)	0.83(0.44-1.57)	0.83(0.44-1.57)
rs703589***** (LOC105369944)	TT (ref)	378/201	1.00	1.00	510/118	1.00	1.00	1.00
Proxy for	TC	19/14	1.39(0.60-2.82)	1.64(0.77-3.49)	29/7	1.03(0.48-2.21)	0.89(0.41-1.93)	0.90(0.41-1.96)
rs703556	CC	0			0/0			
Missing		7/0			7/1			
rs17817449 (FTO)	TT (ref)	140/76	1.00	1.00	192/44	1.00	1.00	1.00
	TG	191/107	1.03(0.72-1.49)	0.93(0.63-1.38)	260/62	0.98(0.67-1.44)	0.96(0.62-1.48)	0.96(0.62-1.48)
	GG	72/31	0.79(0.48-1.32)	0.80(0.47-1.37)	93/19	0.84(0.49-1.43)	0.89(0.48-1.67)	0.91(0.48-1.70)
Missing		1/1			1/1			
rs7289126 (TMEM184B)	CC (ref)	124/82	1.00	1.00	171/50	1.00	1.00	1.00
	CA	203/93	0.69(0.48-1.01)	0.60(0.40-0.90)	265/55	0.74(0.50-1.08)	0.72(0.47-1.10)	0.72(0.47-1.10)
	AA	77/40	0.79(0.49-1.26)	0.58(0.35-0.97)	110/21	0.67(0.40-1.11)	0.60(0.33-1.08)	0.61(0.34-1.11)
rs17001868 (SGSM3)	AA (ref)	295/143	1.00	1.00	385/91	1.00	1.00	1.00
	AC	97/66	1.40(0.97-2.03)	1.43(0.96-2.12)	143/33	0.97(0.65-1.44)	0.97(0.62-1.53)	0.98(0.62-1.56)
	CC	12/6	1.03(0.38-2.80)	0.64(0.22-1.84)	18/2	0.48(0.12-1.95)	0.26(0.04-1.85)	0.26(0.04-1.90)
rs6001930 (MKL1)	TT (ref)	315/152	1.00	1.00	407/96	1.00	1.00	1.00
	TC	82/58	1.47(0.99-2.16)	1.31(0.86-1.98)	129/27	0.87(0.57-1.34)	0.84(0.51-1.38)	0.84(0.51-1.38)
	CC	7/5	1.48(0.46-4.74)	1.29(0.38-4.41)	10/3	1.40(0.44-4.42)	0.64(0.16-2.64)	0.66(0.16-2.73)

*Alive or dead from another cause than breast cancer was classified as alive

**Bilateral cancers excluded. Adjusted for age at diagnosis, hormone replacement therapy (HRT) at baseline, and body mass index (BMI) at baseline.

*** Adjusted for age at diagnosis, axillary lymph node involvement (ALNI), histological grade, tumor size, estrogen receptor (ER)

****Adjusted for the above and BMI and HRT at baseline

*****No homozygote minor genotype and minor allele frequency (MAF) 0.03