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| **Table S4:** Associations with breast cancer risk for *BRCA1* mutation carriers, for known breast cancer susceptibility variants.  |
|  | **Previous published association in *BRCA1*** | **Association in present dataset** |
| **Locus** | **SNP** | **all1/all2****(freq)** | **HR (95%CI)** | **P** | **Best tag SNP** **(r2)** | **all1/all2****(freq)** | **HR (95%CI)** | **P** |
| *FGFR2* | rs2981582 | G/A(0.40) | 1.03(0.97-1.09) | 0.31 | rs2981582(1.0) | G/A(0.40) | 0.99(0.94-1.03) | 0.57 |
| *MAP3K1* | rs889312 | A/C(0.29) | 0.99(0.93-1.05) | 0.63 | rs889312(1.0) | A/C(0.29) | 1.03(0.97-1.08) | 0.32 |
| ***LSP1*** | rs3817198 | T/C(0.32) | 1.05(0.99-1.11) | 0.11 | **rs3817198****(1.0)** | **A/G****(0.32)** | **1.09****(1.04-1.14)** | **9.4×10-4** |
| 8q24 | rs13281615 | A/G(.043) | 1.00(0.95-1.05) | 0.93 | rs13281615(1.0) | A/G(0.42) | 1.01(0.96-1.06) | 0.62 |
| *NEK10* | rs4973768 | C/T(0.49) | 1.03(0.98-1.08) | 0.26 | rs4973768(1.0) | G/A(0.49) | 1.02(0.98-1.07) | 0.35 |
| COX11  | rs6504950 | G/A(0.27) | 1.02(0.96-1.08) | 0.59 | rs6504950(1.0) | G/A(0.27) | 0.99(0.94-1.05) | 0.75 |
| 5p12 | rs10941679 | A/G(0.25) | 0.96(0.90-1.02) | 0.16 | rs10941679(1.0) | A/G(0.25) | 0.98(0.92-1.03) | 0.38 |
| 1p11.2  | rs11249433 | T/C(0.41) | 0.97(0.92-1.02) | 0.20 | rs11249433(1.0) | A/G(0.41) | 1.00(0.96-1.05) | 0.90 |
| ***RAD51L1***  | rs999737 / rs10483813 | C, T /T, A(0.27) | 0.96(0.90-1.03) | 0.27 | **rs999737****(1.0)** | **G/A****(0.22)** | **0.94****(0.89-0.99)** | **0.035** |
| *CDK2NA/B*  | rs1011970 | G/T(0.19) | 1.03(0.96-1.09) | 0.45 | rs1011970(1.0) | C/A(0.17) | 1.02(0.96-1.09) | 0.52 |
| *ZNF365*  | rs10995190 | G/A(0.16) | 0.99(0.93-1.05) | 0.64 | rs10995190(1.0) | G/A(0.15) | 1.01(0.95-1.08) | 0.81 |
| *ZMIZ1*  | rs704010 | C/T(0.37) | 1.02(0.97-1.07) | 0.42 | rs704010(1.0) | G/A(0.37) | 0.99(0.94-1.04) | 0.58 |
| 11q13  | rs614367 | C/T(0.15) | 1.05(0.98-1.12) | 0.15 | rs614367(1.0) | G/A(0.15) | 1.04(0.98-1.11) | 0.23 |
| 12q24  | rs1292011 | A/G(0.42) | 1.00(0.94-1.06) | 0.99 | rs1292011(1.0) | A/G(0.42) | 0.99(0.95-1.04) | 0.78 |
| 9q31.2  | rs865686 | T/G(0.36) | 1.00(0.96-1.05) | 0.85 | rs865686(1.0) | A/C(0.37) | 0.99(0.94-1.04) | 0.67 |
| Freq= frequency of allele 2 in unaffected *BRCA1* carriersHR= Per allele Hazard Ratio associated with allele 2r2=r2 between published SNPs and the most significantly associated SNP in the present study\* SNP not in *BRCA1* GWAS SNP allocation on iCOGS chip |