**S6 Table.** Polymorphisms associated with gastric cancer susceptibility with p-value $<5\times10^{-5}$ in discovery phase and results of the validation phase and meta-analysis in female

| Character | | | | Phase I (GWAS phase) | | | | | Phase II (Validation phase) | | | | | Meta-anlaysis | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| SNP | CHR | BP | MA | No. | MAF in cases | MAF in controls | Odds ratio | p-value | No. | MAF in cases | MAF in controls | Odds ratio | p-value | Odds ratio | p-value |
| rs2976394 | 8 | 143763622 | C | 743 | 0.38 | 0.53 | 0.53 (0.4-0.69) | 3.36E-06 | 2,305 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0043 | 0.68 (0.58-0.79) | 6.71E-07 |
| rs10216533 | 8 | 143763690 | G | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs1045547 | 8 | 143763757 | T | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs1045574 | 8 | 143763958 | G | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,313 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0060 | 0.69 (0.59-0.8) | 1.29E-06 |
| rs1045605 | 8 | 143764101 | C | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2294008 | 8 | 143761931 | C | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,298 | 0.43 | 0.50 | 0.76 (0.64-0.92) | 0.0043 | 0.68 (0.59-0.79) | 8E-07 |
| rs2294010 | 8 | 143762430 | A | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2920279 | 8 | 143762135 | A | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,303 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0053 | 0.69 (0.59-0.8) | 1.1E-06 |
| rs2920296 | 8 | 143763109 | A | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2920297 | 8 | 143763083 | A | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2920298 | 8 | 143763043 | A | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2976392 | 8 | 143762932 | G | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2976393 | 8 | 143763618 | C | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2976395 | 8 | 143763750 | G | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs2976396 | 8 | 143764001 | G | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,313 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0057 | 0.69 (0.59-0.8) | 1.22E-06 |
| rs2978982 | 8 | 143763490 | T | 748 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.1E-06 | 2,312 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0048 | 0.68 (0.59-0.8) | 9.49E-07 |
| rs1045531 | 8 | 143763547 | C | 745 | 0.38 | 0.53 | 0.53 (0.41-0.7) | 5.41E-06 | 2,308 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0052 | 0.69 (0.59-0.8) | 1.12E-06 |
| rs34635647 | 8 | 143756890 | G | 716 | 0.61 | 0.46 | 1.89 (1.44-2.5) | 5.5E-06 | 2,236 | 0.44 | 0.50 | 0.77 (0.64-0.93) | 0.0056 | 1.46 (1.25-1.71) | 1.33E-06 |
| rs2920282 | 8 | 143757763 | C | 743 | 0.62 | 0.47 | 1.86 (1.42-2.44) | 6.1E-06 | 2,274 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0040 | 1.47 (1.26-1.71) | 8.08E-07 |
| rs2920283 | 8 | 143757037 | C | 743 | 0.62 | 0.47 | 1.86 (1.42-2.44) | 6.1E-06 | 2,274 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0041 | 1.47 (1.26-1.71) | 8.29E-07 |
| rs2976386 | 8 | 143757409 | A | 743 | 0.62 | 0.47 | 1.86 (1.42-2.44) | 6.1E-06 | 2,273 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0041 | 1.47 (1.26-1.71) | 8.33E-07 |
| rs2978979 | 8 | 143757286 | A | 743 | 0.62 | 0.47 | 1.86 (1.42-2.44) | 6.1E-06 | 2,273 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0041 | 1.47 (1.26-1.71) | 8.33E-07 |
| rs2978980 | 8 | 143757708 | G | 743 | 0.62 | 0.47 | 1.86 (1.42-2.44) | 6.1E-06 | 2,274 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0040 | 1.47 (1.26-1.71) | 8.08E-07 |
| rs2978981 | 8 | 143759137 | T | 743 | 0.62 | 0.47 | 1.86 (1.42-2.44) | 6.1E-06 | 2,275 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0040 | 1.47 (1.26-1.71) | 8.04E-07 |
| rs2978977 | 8 | 143755720 | A | 714 | 0.50 | 0.35 | 1.86 (1.42-2.45) | 6.78E-06 | 2,255 | 0.46 | 0.38 | 1.35 (1.12-1.63) | 0.0014 | 1.5 (1.29-1.74) | 2.31E-07 |
| rs13249440 | 8 | 143756892 | A | 722 | 0.61 | 0.46 | 1.88 (1.43-2.47) | 6.93E-06 | 2,252 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0054 | 1.46 (1.25-1.7) | 1.39E-06 |
| rs13256647 | 8 | 143756895 | T | 722 | 0.61 | 0.46 | 1.88 (1.43-2.47) | 6.93E-06 | 2,252 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0054 | 1.46 (1.25-1.7) | 1.39E-06 |
| rs2976389 | 8 | 143760421 | C | 736 | 0.61 | 0.47 | 1.86 (1.42-2.44) | 7.04E-06 | 2,269 | 0.43 | 0.50 | 0.76 (0.63-0.92) | 0.0039 | 1.47 (1.26-1.71) | 8.75E-07 |
| rs2920292 | 8 | 143765699 | G | 732 | 0.61 | 0.47 | 1.86 (1.41-2.44) | 8.82E-06 | 2,298 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0054 | 1.45 (1.25-1.69) | 1.69E-06 |
| rs2920294 | 8 | 143765326 | G | 732 | 0.61 | 0.47 | 1.86 (1.41-2.44) | 8.82E-06 | 2,298 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0054 | 1.45 (1.25-1.69) | 1.69E-06 |
| rs2920295 | 8 | 143764937 | G | 732 | 0.61 | 0.47 | 1.86 (1.41-2.44) | 8.82E-06 | 2,298 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0054 | 1.45 (1.25-1.69) | 1.69E-06 |
| rs2976398 | 8 | 143764879 | C | 732 | 0.61 | 0.47 | 1.86 (1.41-2.44) | 8.82E-06 | 2,298 | 0.43 | 0.50 | 0.77 (0.64-0.93) | 0.0054 | 1.45 (1.25-1.69) | 1.69E-06 |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| rs2585179 | 8 | 143774193 | A | 738 | 0.61 | 0.47 | 1.84 (1.4-2.42) | 1.08E-05 | 2,298 | 0.43 | 0.50 | 0.78 (0.65-0.94) | 0.0075 | 1.44 (1.24-1.67) | 2.9E-06 |
| rs2920281 | 8 | 143760444 | T | 733 | 0.50 | 0.36 | 1.81 (1.39-2.36) | 1.2E-05 | 2,271 | 0.46 | 0.38 | 1.36 (1.13-1.63) | 0.0012 | 1.49 (1.28-1.73) | 2.5E-07 |
| rs2920280 | 8 | 143761144 | C | 745 | 0.51 | 0.37 | 1.8 (1.38-2.35) | 1.21E-05 | 2,287 | 0.46 | 0.38 | 1.36 (1.13-1.63) | 0.0012 | 1.49 (1.28-1.73) | 2.44E-07 |
| rs2976388 | 8 | 143760256 | A | 745 | 0.51 | 0.37 | 1.8 (1.38-2.35) | 1.21E-05 | 2,284 | 0.46 | 0.38 | 1.35 (1.13-1.63) | 0.0013 | 1.49 (1.28-1.73) | 2.59E-07 |
| rs2976397 | 8 | 143764613 | T | 745 | 0.51 | 0.37 | 1.8 (1.38-2.35) | 1.21E-05 | 2,311 | 0.46 | 0.38 | 1.35 (1.13-1.62) | 0.0012 | 1.48 (1.28-1.72) | 2.54E-07 |
| rs2920284 | 8 | 143756919 | G | 729 | 0.61 | 0.47 | 1.84 (1.4-2.42) | 1.22E-05 | 2,258 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0050 | 1.45 (1.25-1.7) | 1.75E-06 |
| rs2920285 | 8 | 143756218 | C | 729 | 0.61 | 0.47 | 1.84 (1.4-2.42) | 1.22E-05 | 2,257 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0049 | 1.46 (1.25-1.7) | 1.69E-06 |
| rs2920286 | 8 | 143754728 | A | 729 | 0.61 | 0.47 | 1.84 (1.4-2.42) | 1.22E-05 | 2,257 | 0.43 | 0.50 | 0.76 (0.64-0.92) | 0.0047 | 1.46 (1.25-1.7) | 1.62E-06 |
| rs2976385 | 8 | 143755426 | C | 729 | 0.61 | 0.47 | 1.84 (1.4-2.42) | 1.22E-05 | 2,257 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0049 | 1.46 (1.25-1.7) | 1.69E-06 |
| rs2978978 | 8 | 143756530 | C | 729 | 0.61 | 0.47 | 1.84 (1.4-2.42) | 1.22E-05 | 2,258 | 0.43 | 0.50 | 0.77 (0.64-0.92) | 0.0050 | 1.45 (1.25-1.7) | 1.75E-06 |
| rs2976387 | 8 | 143759364 | A | 740 | 0.50 | 0.36 | 1.8 (1.38-2.35) | 0.000014 | 2,281 | 0.46 | 0.38 | 1.35 (1.13-1.63) | 0.0012 | 1.49 (1.28-1.73) | 2.93E-07 |
| rs2585183 | 8 | 143766059 | G | 724 | 0.50 | 0.36 | 1.8 (1.38-2.36) | 1.6E-05 | 2,288 | 0.46 | 0.38 | 1.34 (1.12-1.61) | 0.0016 | 1.47 (1.27-1.71) | 4.89E-07 |
| rs2572910 | 8 | 143770135 | G | 722 | 0.60 | 0.46 | 1.83 (1.39-2.41) | 1.9E-05 | 2,289 | 0.43 | 0.50 | 0.78 (0.65-0.94) | 0.0074 | 1.43 (1.23-1.67) | 4.26E-06 |
| rs2717562 | 8 | 143776668 | C | 722 | 0.60 | 0.46 | 1.83 (1.39-2.41) | 1.9E-05 | 2,284 | 0.43 | 0.50 | 0.78 (0.65-0.94) | 0.0088 | 1.43 (1.22-1.66) | 5.33E-06 |
| rs2976384 | 8 | 143752994 | C | 727 | 0.61 | 0.47 | 1.82 (1.38-2.39) | 1.93E-05 | 2,262 | 0.44 | 0.50 | 0.78 (0.64-0.93) | 0.0075 | 1.44 (1.23-1.67) | 4.01E-06 |
| rs2585181 | 8 | 143771714 | A | 724 | 0.61 | 0.47 | 1.82 (1.38-2.39) | 1.93E-05 | 2,286 | 0.44 | 0.50 | 0.78 (0.65-0.94) | 0.0090 | 1.43 (1.22-1.66) | 5.32E-06 |
| rs2717608 | 8 | 143771712 | C | 724 | 0.61 | 0.47 | 1.82 (1.38-2.39) | 1.93E-05 | 2,286 | 0.44 | 0.50 | 0.78 (0.65-0.94) | 0.0090 | 1.43 (1.22-1.66) | 5.32E-06 |
| rs12233126 | 2 | 100012200 | A | 734 | 0.38 | 0.27 | 1.77 (1.34-2.33) | 4.97E-05 | 2,312 | 0.28 | 0.28 | 1.01 (0.82-1.24) | 0.9352 | 1.23 (1.04-1.45) | 0.01347 |
| rs28382949 | 2 | 100028112 | T | 734 | 0.38 | 0.27 | 1.77 (1.34-2.33) | 4.97E-05 | 2,313 | 0.28 | 0.28 | 1.01 (0.82-1.24) | 0.9380 | 1.23 (1.04-1.45) | 0.01347 |
| rs72956387 | 2 | 100028890 | G | 734 | 0.38 | 0.27 | 1.77 (1.34-2.33) | 4.97E-05 | 2,313 | 0.28 | 0.28 | 1.01 (0.82-1.24) | 0.9380 | 1.23 (1.04-1.45) | 0.01347 |

MA, minor allele; MAF, minor allele frequency.