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| Table S7. Details of white blood cells predicting SNPs with gastric cancer uesing multivariable Mendelian randomization in East Asian cohort. |
| **SNP** | **Gastric cancer** | **Basophils** | **Eosinophils** | **Lymphocytes** | **Monocytes** | **Neutrophils** |
| **Effect allele** | **Other allele** | **Standard Error** | **Beta** | **P-value** | **P-value** | **Beta** | **Standard Error** | **F-statistic** | **P-value** | **Beta** | **Standard Error** | **F-statistic** | **P-value** | **Beta** | **Standard Error** | **F-statistic** | **P-value** | **Beta** | **Standard Error** | **F-statistic** | **P-value** | **Beta** | **Standard Error** | **F-statistic** |
| rs1007638 | A | G | 0.0256  | 0.0183  | 0.1625  |  |  |  |  |  |  |  |  |  |  |  |  | 2.37E-14 | -0.0441  | 0.0058  | 58.1882  |  |  |  |  |
| rs10276619 | A | G | 0.0242  | 0.0180  | 0.1792  |  |  |  |  |  |  |  |  |  |  |  |  | 1.23E-10 | -0.0367  | 0.0057  | 41.4249  |  |  |  |  |
| rs10404046 | C | G | -0.0481  | 0.0206  | 0.0194  |  |  |  |  |  |  |  |  | 7.48E-13 | -0.0471  | 0.0066  | 51.4161  |  |  |  |  |  |  |  |  |
| rs10980797 | G | A | 0.0003  | 0.0255  | 0.9899  |  |  |  |  |  |  |  |  |  |  |  |  | 9.03E-16 | -0.0647  | 0.0080  | 64.6302  |  |  |  |  |
| rs11018874 | A | G | -0.0089  | 0.0200  | 0.6545  | 2.27E-16 | -0.0551  | 0.0067  | 67.3486  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs11190140 | C | T | 0.0110  | 0.0183  | 0.5456  |  |  |  |  |  |  |  |  |  |  |  |  | 1.25E-09 | -0.0350  | 0.0058  | 36.8848  |  |  |  |  |
| rs115007843 | C | A | 0.0100  | 0.0187  | 0.5931  |  |  |  |  |  |  |  |  |  |  |  |  | 3.48E-17 | -0.0534  | 0.0063  | 71.0541  |  |  |  |  |
| rs11857230 | T | A | 0.0282  | 0.0193  | 0.1452  | 5.51E-13 | -0.0440  | 0.0061  | 52.0147  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs12052715 | G | C | 0.0260  | 0.0325  | 0.4239  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.05E-09 | -0.0614  | 0.0104  | 34.5663  |
| rs12208785 | G | A | 0.0135  | 0.0219  | 0.5390  | 4.14E-10 | 0.0432  | 0.0069  | 39.0557  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs12357266 | A | G | 0.0194  | 0.0190  | 0.3068  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.24E-10 | 0.0369  | 0.0060  | 37.9458  |
| rs12461821 | A | G | -0.0028  | 0.0186  | 0.8806  |  |  |  |  |  |  |  |  |  |  |  |  | 6.56E-11 | -0.0384  | 0.0059  | 42.6539  |  |  |  |  |
| rs1260326 | C | T | 0.0011  | 0.0182  | 0.9497  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs12606438 | C | A | 0.0267  | 0.0204  | 0.1908  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.39E-10 | 0.0415  | 0.0065  | 41.1875  |
| rs12898000 | C | G | -0.0299  | 0.0196  | 0.1268  |  |  |  |  |  |  |  |  |  |  |  |  | 3.74E-12 | 0.0433  | 0.0062  | 48.2420  |  |  |  |  |
| rs13022407 | C | T | -0.0059  | 0.0194  | 0.7591  |  |  |  |  | 6.20E-19 | -0.0549  | 0.0062  | 79.0059  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs1322599 | T | C | 0.0086  | 0.0192  | 0.6537  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs1333054 | T | C | 0.0009  | 0.0195  | 0.9645  |  |  |  |  |  |  |  |  | 4.80E-17 | 0.0524  | 0.0062  | 70.4084  | 1.41E-11 | 0.0422  | 0.0062  | 45.6479  |  |  |  |  |
| rs1449263 | T | C | 0.0081  | 0.0186  | 0.6615  |  |  |  |  |  |  |  |  |  |  |  |  | 8.40E-63 | 0.0980  | 0.0059  | 279.7726  |  |  |  |  |
| rs1474920 | T | G | 0.0234  | 0.0200  | 0.2403  | 6.08E-21 | 0.0592  | 0.0063  | 88.1269  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs1568391 | T | G | -0.0491  | 0.0265  | 0.0643  |  |  |  |  |  |  |  |  |  |  |  |  | 3.34E-15 | -0.0690  | 0.0088  | 62.0464  |  |  |  |  |
| rs16823866 | C | T | 0.0221  | 0.0204  | 0.2790  | 4.20E-18 | -0.0557  | 0.0064  | 75.2263  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs16917546 | C | T | 0.0303  | 0.0180  | 0.0928  |  |  |  |  | 3.92E-10 | -0.0362  | 0.0058  | 39.1463  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2004925 | A | G | 0.0265  | 0.0180  | 0.1409  |  |  |  |  |  |  |  |  |  |  |  |  | 1.63E-16 | 0.0468  | 0.0057  | 67.9978  |  |  |  |  |
| rs2040571 | A | G | 0.0679  | 0.0218  | 0.0019  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.92E-16 | 0.0616  | 0.0075  | 66.8710  |
| rs2078387 | A | C | -0.0413  | 0.0238  | 0.0822  |  |  |  |  | 8.88E-19 | -0.0622  | 0.0070  | 78.2893  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2210366 | A | G | -0.0150  | 0.0187  | 0.4243  |  |  |  |  | 1.55E-22 | 0.0575  | 0.0059  | 95.4006  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2239630 | G | A | 0.0125  | 0.0188  | 0.5055  |  |  |  |  |  |  |  |  |  |  |  |  | 4.44E-10 | 0.0373  | 0.0060  | 38.9113  |  |  |  |  |
| rs2392238 | A | G | -0.0366  | 0.0422  | 0.3855  |  |  |  |  |  |  |  |  | 2.51E-13 | 0.0999  | 0.0137  | 53.5631  |  |  |  |  |  |  |  |  |
| rs2844535 | G | T | 0.0115  | 0.0220  | 0.6025  |  |  |  |  | 5.35E-25 | -0.0718  | 0.0070  | 106.6323  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs28507710 | C | T | 0.0120  | 0.0315  | 0.7033  |  |  |  |  |  |  |  |  |  |  |  |  | 2.49E-10 | 0.0628  | 0.0099  | 40.0461  | 2.88E-14 | 0.0755  | 0.0099  | 57.8133  |
| rs311629 | G | A | 0.0160  | 0.0229  | 0.4867  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs35168272 | G | C | 0.0158  | 0.0216  | 0.4636  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.04E-14 | -0.0514  | 0.0068  | 57.1646  |
| rs35389394 | T | C | -0.0166  | 0.0187  | 0.3751  |  |  |  |  |  |  |  |  |  |  |  |  | 8.21E-41 | -0.0773  | 0.0058  | 178.9172  | 1.61E-12 | -0.0408  | 0.0058  | 49.8902  |
| rs35480293 | A | C | 0.0140  | 0.0188  | 0.4563  |  |  |  |  | 3.75E-12 | 0.0396  | 0.0057  | 48.2700  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs35879747 | A | T | -0.0340  | 0.0318  | 0.2852  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs368975 | G | A | -0.0668  | 0.0293  | 0.0229  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9.01E-12 | 0.0613  | 0.0090  | 46.5366  |
| rs3747869 | C | A | 0.0237  | 0.0248  | 0.3389  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs3789087 | T | C | -0.0120  | 0.0237  | 0.6133  |  |  |  |  |  |  |  |  |  |  |  |  | 1.27E-10 | -0.0482  | 0.0075  | 41.3486  |  |  |  |  |
| rs3804785 | G | T | -0.0062  | 0.0209  | 0.7677  | 2.84E-20 | 0.0617  | 0.0067  | 85.0776  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs4449583 | T | C | 0.0328  | 0.0217  | 0.1313  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.78E-10 | 0.0425  | 0.0067  | 40.6890  |
| rs445 | T | C | 0.0175  | 0.0193  | 0.3646  |  |  |  |  | 5.22E-17 | -0.0513  | 0.0061  | 70.2357  |  |  |  |  | 6.91E-18 | -0.0528  | 0.0061  | 74.2309  | 3.84E-46 | -0.0874  | 0.0061  | 203.3627  |
| rs4811020 | T | C | -0.0111  | 0.0282  | 0.6928  |  |  |  |  |  |  |  |  |  |  |  |  | 7.32E-10 | -0.0545  | 0.0089  | 37.9287  |  |  |  |  |
| rs4951254 | C | T | 0.0002  | 0.0188  | 0.9897  | 3.36E-15 | 0.0457  | 0.0058  | 62.0448  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs4959105 | T | C | -0.0215  | 0.0182  | 0.2382  |  |  |  |  |  |  |  |  | 3.23E-16 | -0.0501  | 0.0061  | 66.6563  |  |  |  |  |  |  |  |  |
| rs4970966 | T | G | -0.0060  | 0.0233  | 0.7986  |  |  |  |  |  |  |  |  |  |  |  |  | 1.43E-10 | -0.0474  | 0.0074  | 41.1168  |  |  |  |  |
| rs549280 | A | G | -0.0063  | 0.0181  | 0.7261  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.33E-28 | -0.0631  | 0.0057  | 121.9877  |
| rs55771023 | A | C | -0.0300  | 0.0179  | 0.0938  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9.40E-54 | 0.0877  | 0.0057  | 238.2892  |
| rs58681483 | G | A | -0.0070  | 0.0277  | 0.8005  |  |  |  |  |  |  |  |  |  |  |  |  | 1.28E-12 | -0.0621  | 0.0087  | 50.3553  |  |  |  |  |
| rs58963533 | C | T | 0.0114  | 0.0232  | 0.6244  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.31E-10 | 0.0457  | 0.0074  | 38.2280  |
| rs62242983 | C | T | -0.0153  | 0.0202  | 0.4467  |  |  |  |  |  |  |  |  |  |  |  |  | 7.24E-14 | -0.0536  | 0.0072  | 56.0095  |  |  |  |  |
| rs6543119 | T | A | 0.0201  | 0.0183  | 0.2727  |  |  |  |  | 6.03E-25 | 0.0599  | 0.0058  | 106.4054  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs6692718 | G | A | -0.0012  | 0.0190  | 0.9487  | 1.28E-24 | -0.0614  | 0.0060  | 104.8926  | 1.31E-09 | 0.0364  | 0.0060  | 36.7965  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs6782812 | A | G | -0.0680  | 0.0191  | 0.0004  | 2.10E-123 | 0.1417  | 0.0060  | 558.3051  | 6.69E-56 | 0.0945  | 0.0060  | 248.1531  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs6815294 | A | G | -0.0181  | 0.0186  | 0.3318  |  |  |  |  |  |  |  |  |  |  |  |  | 9.28E-12 | 0.0405  | 0.0059  | 46.4803  |  |  |  |  |
| rs695113 | T | C | 0.0211  | 0.0189  | 0.2648  | 2.08E-13 | 0.0439  | 0.0060  | 53.9203  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs7008536 | A | C | 0.0268  | 0.0181  | 0.1397  | 4.12E-16 | -0.0466  | 0.0057  | 66.1734  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs7249415 | A | C | 0.0161  | 0.0182  | 0.3784  |  |  |  |  | 1.16E-12 | 0.0429  | 0.0060  | 50.5417  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs7253959 | A | G | -0.0264  | 0.0198  | 0.1817  | 3.24E-13 | 0.0464  | 0.0064  | 53.0712  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs73057397 | C | T | -0.0137  | 0.0192  | 0.4758  |  |  |  |  |  |  |  |  |  |  |  |  | 8.67E-11 | 0.0391  | 0.0060  | 42.0926  |  |  |  |  |
| rs73243398 | A | G | -0.0121  | 0.0225  | 0.5903  |  |  |  |  |  |  |  |  | 1.48E-10 | -0.0459  | 0.0072  | 41.0529  |  |  |  |  |  |  |  |  |
| rs741804 | C | A | 0.0494  | 0.0240  | 0.0399  | 1.83E-10 | -0.0481  | 0.0075  | 40.6495  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs74360907 | T | A | 0.0274  | 0.0252  | 0.2773  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.25E-20 | 0.0791  | 0.0085  | 86.7218  |
| rs76664709 | T | C | -0.0332  | 0.0207  | 0.1084  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs77652395 | T | G | 0.0249  | 0.0192  | 0.1961  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs78107966 | C | T | 0.0260  | 0.0237  | 0.2726  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.73E-13 | -0.0555  | 0.0076  | 52.7835  |
| rs7874186 | A | G | -0.0140  | 0.0240  | 0.5601  |  |  |  |  |  |  |  |  |  |  |  |  | 1.74E-09 | 0.0457  | 0.0076  | 36.2473  |  |  |  |  |
| rs80109907 | A | C | -0.0350  | 0.0326  | 0.2834  | 1.19E-43 | 0.1468  | 0.0106  | 191.7964  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs886816 | A | G | -0.0024  | 0.0235  | 0.9196  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.72E-20 | 0.0665  | 0.0073  | 83.1168  |
| rs9277351 | G | T | 0.0379  | 0.0183  | 0.0379  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs9551434 | G | A | 0.0262  | 0.0231  | 0.2555  |  |  |  |  |  |  |  |  |  |  |  |  | 3.80E-15 | -0.0599  | 0.0076  | 61.7951  |  |  |  |  |
| rs9674233 | C | T | 0.0233  | 0.0180  | 0.1950  |  |  |  |  |  |  |  |  |  |  |  |  | 1.66E-20 | -0.0527  | 0.0057  | 86.1660  |  |  |  |  |
| rs9986877 | A | T | -0.0220  | 0.0210  | 0.2968  |  |  |  |  | 3.10E-18 | -0.0588  | 0.0067  | 75.8218  |  |  |  |  |  |  |  |  |  |  |  |  |