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| Table S8. Details of white blood cells predicting SNPs with colorectal cancer uesing multivariable Mendelian randomization in East Asian cohort. |
| **SNP** | **Colorectal 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 | -0.0069  | 0.0176  | 0.6949  |  |  |  |  |  |  |  |  |  |  |  |  | 2.37E-14 | -0.0441  | 0.0058  | 58.1882  |  |  |  |  |
| rs10276619 | A | G | 0.0079  | 0.0174  | 0.6473  |  |  |  |  |  |  |  |  |  |  |  |  | 1.23E-10 | -0.0367  | 0.0057  | 41.4249  |  |  |  |  |
| rs10404046 | C | G | 0.0077  | 0.0198  | 0.6989  |  |  |  |  |  |  |  |  | 7.48E-13 | -0.0471  | 0.0066  | 51.4161  |  |  |  |  |  |  |  |  |
| rs10980797 | G | A | -0.0186  | 0.0246  | 0.4479  |  |  |  |  |  |  |  |  |  |  |  |  | 9.03E-16 | -0.0647  | 0.0080  | 64.6302  |  |  |  |  |
| rs11018874 | A | G | 0.0093  | 0.0192  | 0.6285  | 2.27E-16 | -0.0551  | 0.0067  | 67.3486  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs11190140 | C | T | 0.0438  | 0.0176  | 0.0126  |  |  |  |  |  |  |  |  |  |  |  |  | 1.25E-09 | -0.0350  | 0.0058  | 36.8848  |  |  |  |  |
| rs115007843 | C | A | 0.0145  | 0.0180  | 0.4195  |  |  |  |  |  |  |  |  |  |  |  |  | 3.48E-17 | -0.0534  | 0.0063  | 71.0541  |  |  |  |  |
| rs11857230 | T | A | -0.0358  | 0.0186  | 0.0541  | 5.51E-13 | -0.0440  | 0.0061  | 52.0147  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs12208785 | G | A | -0.0210  | 0.0211  | 0.3184  | 4.14E-10 | 0.0432  | 0.0069  | 39.0557  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs12357266 | A | G | -0.0130  | 0.0183  | 0.4770  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.24E-10 | 0.0369  | 0.0060  | 37.9458  |
| rs12461821 | A | G | -0.0338  | 0.0179  | 0.0582  |  |  |  |  |  |  |  |  |  |  |  |  | 6.56E-11 | -0.0384  | 0.0059  | 42.6539  |  |  |  |  |
| rs12469306 | G | A | 0.0264  | 0.0229  | 0.2504  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.51E-09 | -0.0459  | 0.0077  | 35.5340  |
| rs12606438 | C | A | 0.0078  | 0.0196  | 0.6928  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.39E-10 | 0.0415  | 0.0065  | 41.1875  |
| rs12898000 | C | G | -0.0270  | 0.0188  | 0.1511  |  |  |  |  |  |  |  |  |  |  |  |  | 3.74E-12 | 0.0433  | 0.0062  | 48.2420  |  |  |  |  |
| rs13022407 | C | T | -0.0066  | 0.0187  | 0.7247  |  |  |  |  | 6.20E-19 | -0.0549  | 0.0062  | 79.0059  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs1333054 | T | C | -0.0433  | 0.0187  | 0.0207  |  |  |  |  |  |  |  |  | 4.80E-17 | 0.0524  | 0.0062  | 70.4084  | 1.41E-11 | 0.0422  | 0.0062  | 45.6479  |  |  |  |  |
| rs1449263 | T | C | 0.0037  | 0.0179  | 0.8345  |  |  |  |  |  |  |  |  |  |  |  |  | 8.40E-63 | 0.0980  | 0.0059  | 279.7726  |  |  |  |  |
| rs1474920 | T | G | 0.0135  | 0.0192  | 0.4821  | 6.08E-21 | 0.0592  | 0.0063  | 88.1269  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs1568391 | T | G | -0.0312  | 0.0255  | 0.2221  |  |  |  |  |  |  |  |  |  |  |  |  | 3.34E-15 | -0.0690  | 0.0088  | 62.0464  |  |  |  |  |
| rs16823866 | C | T | 0.0126  | 0.0196  | 0.5197  | 4.20E-18 | -0.0557  | 0.0064  | 75.2263  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs16917546 | C | T | -0.0150  | 0.0173  | 0.3875  |  |  |  |  | 3.92E-10 | -0.0362  | 0.0058  | 39.1463  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2004925 | A | G | -0.0053  | 0.0173  | 0.7576  |  |  |  |  |  |  |  |  |  |  |  |  | 1.63E-16 | 0.0468  | 0.0057  | 67.9978  |  |  |  |  |
| rs2040571 | A | G | -0.1086  | 0.0212  | 0.0000  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.92E-16 | 0.0616  | 0.0075  | 66.8710  |
| rs2078387 | A | C | -0.0165  | 0.0229  | 0.4707  |  |  |  |  | 8.88E-19 | -0.0622  | 0.0070  | 78.2893  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2210366 | A | G | -0.0286  | 0.0180  | 0.1132  |  |  |  |  | 1.55E-22 | 0.0575  | 0.0059  | 95.4006  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2239630 | G | A | -0.0158  | 0.0180  | 0.3819  |  |  |  |  |  |  |  |  |  |  |  |  | 4.44E-10 | 0.0373  | 0.0060  | 38.9113  |  |  |  |  |
| rs2392238 | A | G | 0.0095  | 0.0404  | 0.8148  |  |  |  |  |  |  |  |  | 2.51E-13 | 0.0999  | 0.0137  | 53.5631  |  |  |  |  |  |  |  |  |
| rs2844535 | G | T | 0.0088  | 0.0211  | 0.6776  |  |  |  |  | 5.35E-25 | -0.0718  | 0.0070  | 106.6323  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs2994007 | A | G | 0.0287  | 0.0177  | 0.1061  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.37E-16 | -0.0473  | 0.0058  | 66.0698  |
| rs35168272 | G | C | 0.0097  | 0.0207  | 0.6405  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 4.04E-14 | -0.0514  | 0.0068  | 57.1646  |
| rs35389394 | T | C | 0.0054  | 0.0180  | 0.7629  |  |  |  |  |  |  |  |  |  |  |  |  | 8.21E-41 | -0.0773  | 0.0058  | 178.9172  | 1.61E-12 | -0.0408  | 0.0058  | 49.8902  |
| rs35480293 | A | C | -0.0180  | 0.0180  | 0.3192  |  |  |  |  | 3.75E-12 | 0.0396  | 0.0057  | 48.2700  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs368975 | G | A | 0.0461  | 0.0282  | 0.1023  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 9.01E-12 | 0.0613  | 0.0090  | 46.5366  |
| rs3789087 | T | C | -0.0316  | 0.0227  | 0.1645  |  |  |  |  |  |  |  |  |  |  |  |  | 1.27E-10 | -0.0482  | 0.0075  | 41.3486  |  |  |  |  |
| rs3804785 | G | T | -0.0134  | 0.0201  | 0.5057  | 2.84E-20 | 0.0617  | 0.0067  | 85.0776  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs4449583 | T | C | 0.0071  | 0.0209  | 0.7341  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.78E-10 | 0.0425  | 0.0067  | 40.6890  |
| rs445 | T | C | 0.0062  | 0.0186  | 0.7403  |  |  |  |  | 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 | -0.0030  | 0.0271  | 0.9131  |  |  |  |  |  |  |  |  |  |  |  |  | 7.32E-10 | -0.0545  | 0.0089  | 37.9287  |  |  |  |  |
| rs4951254 | C | T | 0.0301  | 0.0180  | 0.0951  | 3.36E-15 | 0.0457  | 0.0058  | 62.0448  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs4959105 | T | C | 0.0065  | 0.0176  | 0.7124  |  |  |  |  |  |  |  |  | 3.23E-16 | -0.0501  | 0.0061  | 66.6563  |  |  |  |  |  |  |  |  |
| rs4970966 | T | G | 0.0187  | 0.0224  | 0.4046  |  |  |  |  |  |  |  |  |  |  |  |  | 1.43E-10 | -0.0474  | 0.0074  | 41.1168  |  |  |  |  |
| rs549280 | A | G | 0.0179  | 0.0174  | 0.3026  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2.33E-28 | -0.0631  | 0.0057  | 121.9877  |
| rs58681483 | G | A | 0.0230  | 0.0266  | 0.3879  |  |  |  |  |  |  |  |  |  |  |  |  | 1.28E-12 | -0.0621  | 0.0087  | 50.3553  |  |  |  |  |
| rs58963533 | C | T | -0.0056  | 0.0223  | 0.8007  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6.31E-10 | 0.0457  | 0.0074  | 38.2280  |
| rs62025494 | T | C | 0.0063  | 0.0213  | 0.7663  |  |  |  |  | 4.96E-10 | -0.0437  | 0.0070  | 38.6916  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs62242983 | C | T | -0.0086  | 0.0194  | 0.6577  |  |  |  |  |  |  |  |  |  |  |  |  | 7.24E-14 | -0.0536  | 0.0072  | 56.0095  |  |  |  |  |
| rs6543119 | T | A | -0.0222  | 0.0176  | 0.2075  |  |  |  |  | 6.03E-25 | 0.0599  | 0.0058  | 106.4054  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs6692718 | G | A | -0.0060  | 0.0183  | 0.7416  | 1.28E-24 | -0.0614  | 0.0060  | 104.8926  | 1.31E-09 | 0.0364  | 0.0060  | 36.7965  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs6782812 | A | G | -0.0414  | 0.0183  | 0.0239  | 2.10E-123 | 0.1417  | 0.0060  | 558.3051  | 6.69E-56 | 0.0945  | 0.0060  | 248.1531  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs6815294 | A | G | -0.0142  | 0.0179  | 0.4266  |  |  |  |  |  |  |  |  |  |  |  |  | 9.28E-12 | 0.0405  | 0.0059  | 46.4803  |  |  |  |  |
| rs695113 | T | C | -0.0200  | 0.0182  | 0.2704  | 2.08E-13 | 0.0439  | 0.0060  | 53.9203  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs7008536 | A | C | 0.0121  | 0.0174  | 0.4892  | 4.12E-16 | -0.0466  | 0.0057  | 66.1734  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs709592 | T | C | -0.0291  | 0.0175  | 0.0962  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.63E-56 | 0.0906  | 0.0057  | 249.3306  |
| rs7249415 | A | C | -0.0236  | 0.0175  | 0.1773  |  |  |  |  | 1.16E-12 | 0.0429  | 0.0060  | 50.5417  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs7253959 | A | G | 0.0106  | 0.0190  | 0.5780  | 3.24E-13 | 0.0464  | 0.0064  | 53.0712  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs73057397 | C | T | 0.0046  | 0.0185  | 0.8042  |  |  |  |  |  |  |  |  |  |  |  |  | 8.67E-11 | 0.0391  | 0.0060  | 42.0926  |  |  |  |  |
| rs73243398 | A | G | -0.0131  | 0.0216  | 0.5435  |  |  |  |  |  |  |  |  | 1.48E-10 | -0.0459  | 0.0072  | 41.0529  |  |  |  |  |  |  |  |  |
| rs741804 | C | A | -0.0055  | 0.0232  | 0.8123  | 1.83E-10 | -0.0481  | 0.0075  | 40.6495  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs74360907 | T | A | -0.0124  | 0.0243  | 0.6106  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1.25E-20 | 0.0791  | 0.0085  | 86.7218  |
| rs78107966 | C | T | -0.0308  | 0.0228  | 0.1768  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 3.73E-13 | -0.0555  | 0.0076  | 52.7835  |
| rs7874186 | A | G | -0.0012  | 0.0231  | 0.9575  |  |  |  |  |  |  |  |  |  |  |  |  | 1.74E-09 | 0.0457  | 0.0076  | 36.2473  |  |  |  |  |
| rs78857802 | T | C | -0.0059  | 0.0176  | 0.7361  |  |  |  |  | 2.63E-09 | -0.0343  | 0.0058  | 35.4397  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs80109907 | A | C | 0.0171  | 0.0314  | 0.5870  | 1.19E-43 | 0.1468  | 0.0106  | 191.7964  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs886816 | A | G | -0.0168  | 0.0226  | 0.4562  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 7.72E-20 | 0.0665  | 0.0073  | 83.1168  |
| rs9264396 | T | C | -0.0037  | 0.0213  | 0.8607  | 2.00E-20 | -0.0697  | 0.0075  | 85.7722  | 1.23E-14 | -0.0581  | 0.0075  | 59.4786  |  |  |  |  |  |  |  |  |  |  |  |  |
| rs9551434 | G | A | 0.0074  | 0.0222  | 0.7389  |  |  |  |  |  |  |  |  |  |  |  |  | 3.80E-15 | -0.0599  | 0.0076  | 61.7951  |  |  |  |  |
| rs9674233 | C | T | 0.0121  | 0.0173  | 0.4824  |  |  |  |  |  |  |  |  |  |  |  |  | 1.66E-20 | -0.0527  | 0.0057  | 86.1660  |  |  |  |  |
| rs9986877 | A | T | 0.0179  | 0.0202  | 0.3773  |  |  |  |  | 3.10E-18 | -0.0588  | 0.0067  | 75.8218  |  |  |  |  |  |  |  |  |  |  |  |  |