|  |
| --- |
| Table S6. Association of six leukocytes traits with five digestive system cancers using univariable Mendelian randomization in East Asian cohort. |
| **Outcoms** | **Exposures** | **Method** | **NO. of SNPs** | **Beta** | **Standard Error** | **P-value** | **OR** | **95% CI-low** | **95% CI-up** | **Q** | **Q P-value** | **Intercept P-value** | **Global Test P-value** |
| Esophageal cancer | Leukocytes | Inverse variance weighted | 39 | 0.1280  | 0.1756  | 0.4662  | 1.1365  | 0.8055  | 1.6035  | 29.2545  | 0.8448  |  | 0.881 |
|  |  | MR Egger | 39 | 0.7969  | 0.5668  | 0.1681  | 2.2186  | 0.7305  | 6.7379  | 27.7136  | 0.8658  | 0.2223  |  |
|  |  | Weighted median | 39 | 0.1933  | 0.2590  | 0.4555  | 1.2132  | 0.7302  | 2.0156  |  |  |  |  |
|  | Basophils | Inverse variance weighted | 27 | -0.0134  | 0.1409  | 0.9244  | 0.9867  | 0.7486  | 1.3005  | 15.1621  | 0.9543  |  | 0.978 |
|  |  | MR Egger | 27 | -0.5593  | 0.3700  | 0.1432  | 0.5716  | 0.2768  | 1.1805  | 12.6163  | 0.9809  | 0.1231  |  |
|  |  | Weighted median | 27 | -0.0766  | 0.2183  | 0.7259  | 0.9263  | 0.6038  | 1.4210  |  |  |  |  |
|  | Eosinophils | Inverse variance weighted | 26 | -0.1619  | 0.1736  | 0.3510  | 0.8505  | 0.6052  | 1.1953  | 27.3533  | 0.3385  |  | 0.368 |
|  |  | MR Egger | 26 | -0.3855  | 0.6508  | 0.5592  | 0.6801  | 0.1899  | 2.4354  | 27.2089  | 0.2948  | 0.7243  |  |
|  |  | Weighted median | 26 | -0.1561  | 0.2553  | 0.5410  | 0.8555  | 0.5186  | 1.4111  |  |  |  |  |
|  | Lymphocytes | Inverse variance weighted | 11 | -0.2313  | 0.2902  | 0.4255  | 0.7935  | 0.4493  | 1.4016  | 6.4072  | 0.7800  |  | 0.798 |
|  |  | MR Egger | 11 | 0.0444  | 1.6816  | 0.9795  | 1.0454  | 0.0387  | 28.2291  | 6.3795  | 0.7014  | 0.8715  |  |
|  |  | Weighted median | 11 | -0.3240  | 0.3933  | 0.4100  | 0.7233  | 0.3346  | 1.5633  |  |  |  |  |
|  | Monocytes | Inverse variance weighted | 35 | -0.2752  | 0.1451  | 0.0579  | 0.7594  | 0.5714  | 1.0093  | 27.1093  | 0.7932  |  | 0.844 |
|  |  | MR Egger | 35 | -0.0303  | 0.5399  | 0.9556  | 0.9701  | 0.3367  | 2.7953  | 26.8876  | 0.7646  | 0.6408  |  |
|  |  | Weighted median | 35 | -0.5094  | 0.2174  | 0.0191  | 0.6008  | 0.3924  | 0.9201  |  |  |  |  |
|  | Neutrophils | Inverse variance weighted | 22 | 0.0823  | 0.1673  | 0.6228  | 1.0858  | 0.7822  | 1.5073  | 15.2637  | 0.8095  |  | 0.872 |
|  |  | MR Egger | 22 | 0.1164  | 0.6958  | 0.8688  | 1.1235  | 0.2873  | 4.3937  | 15.2612  | 0.7613  | 0.9602  |  |
|  |  | Weighted median | 22 | -0.0220  | 0.2315  | 0.9242  | 0.9782  | 0.6214  | 1.5400  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gastric cancer | Leukocytes | Inverse variance weighted | 37 | 0.0080  | 0.0823  | 0.9224  | 1.0081  | 0.8578  | 1.1846  | 30.7665  | 0.7156  |  | 0.821 |
|  |  | MR Egger | 37 | -0.3517  | 0.2598  | 0.1844  | 0.7035  | 0.4228  | 1.1705  | 28.6345  | 0.7678  | 0.1532  |  |
|  |  | Weighted median | 37 | -0.0554  | 0.1214  | 0.6481  | 0.9461  | 0.7458  | 1.2002  |  |  |  |  |
|  | Basophils | Inverse variance weighted | 24 | -0.1817  | 0.0772  | 0.0186  | 0.8339  | 0.7168  | 0.9701  | 18.4039  | 0.7352  |  | 0.718 |
|  |  | MR Egger | 24 | -0.1998  | 0.2795  | 0.4822  | 0.8189  | 0.4735  | 1.4162  | 18.3993  | 0.6821  | 0.9468  |  |
|  |  | Weighted median | 24 | -0.2251  | 0.1118  | 0.0441  | 0.7984  | 0.6413  | 0.9941  |  |  |  |  |
|  | Eosinophils | Inverse variance weighted | 21 | 0.0079  | 0.0902  | 0.9301  | 1.0079  | 0.8446  | 1.2028  | 18.5922  | 0.5485  |  | 0.562 |
|  |  | MR Egger | 21 | 0.3391  | 0.4124  | 0.4212  | 1.4037  | 0.6255  | 3.1501  | 17.9150  | 0.5281  | 0.4207  |  |
|  |  | Weighted median | 21 | 0.0359  | 0.1219  | 0.7682  | 1.0366  | 0.8162  | 1.3164  |  |  |  |  |
|  | Lymphocytes | Inverse variance weighted | 7 | 0.0756  | 0.1599  | 0.6363  | 1.0785  | 0.7884  | 1.4755  | 5.1462  | 0.5252  |  | 0.552 |
|  |  | MR Egger | 7 | -0.4690  | 0.7780  | 0.5730  | 0.6256  | 0.1362  | 2.8747  | 4.6347  | 0.4621  | 0.5065  |  |
|  |  | Weighted median | 7 | 0.0079  | 0.2062  | 0.9694  | 1.0079  | 0.6728  | 1.5101  |  |  |  |  |
|  | Monocytes | Inverse variance weighted | 34 | 0.0062  | 0.0680  | 0.9270  | 1.0062  | 0.8807  | 1.1497  | 26.3515  | 0.7873  |  | 0.804 |
|  |  | MR Egger | 34 | 0.3259  | 0.2464  | 0.1954  | 1.3853  | 0.8546  | 2.2455  | 24.5303  | 0.8246  | 0.1866  |  |
|  |  | Weighted median | 34 | 0.0801  | 0.0990  | 0.4182  | 1.0834  | 0.8924  | 1.3154  |  |  |  |  |
|  | Neutrophils | Inverse variance weighted | 23 | 0.0234  | 0.0756  | 0.7572  | 1.0236  | 0.8827  | 1.1871  | 14.9968  | 0.8624  |  | 0.883 |
|  |  | MR Egger | 23 | -0.3986  | 0.2894  | 0.1829  | 0.6713  | 0.3807  | 1.1837  | 12.7154  | 0.9183  | 0.1458  |  |
|  |  | Weighted median | 23 | 0.0228  | 0.1045  | 0.8271  | 1.0231  | 0.8336  | 1.2557  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Colorectal cancer | Leukocytes | Inverse variance weighted | 36 | -0.1229  | 0.0798  | 0.1236  | 0.8843  | 0.7563  | 1.0341  | 29.4673  | 0.7320  |  | 0.826 |
|  |  | MR Egger | 36 | -0.0951  | 0.2532  | 0.7094  | 0.9092  | 0.5536  | 1.4935  | 29.4540  | 0.6901  | 0.9087  |  |
|  |  | Weighted median | 36 | -0.0942  | 0.1179  | 0.4243  | 0.9101  | 0.7223  | 1.1467  |  |  |  |  |
|  | Basophils | Inverse variance weighted | 26 | 0.0493  | 0.0785  | 0.5300  | 1.0505  | 0.9008  | 1.2252  | 31.0021  | 0.1889  |  | 0.226 |
|  |  | MR Egger | 26 | -0.2419  | 0.2840  | 0.4027  | 0.7851  | 0.4500  | 1.3698  | 29.5986  | 0.1984  | 0.2967  |  |
|  |  | Weighted median | 26 | 0.1144  | 0.1058  | 0.2795  | 1.1212  | 0.9112  | 1.3796  |  |  |  |  |
|  | Eosinophils | Inverse variance weighted | 26 | -0.2268  | 0.0729  | 0.0019  | 0.7971  | 0.6910  | 0.9195  | 18.6358  | 0.8142  |  | 0.816 |
|  |  | MR Egger | 26 | -0.6101  | 0.2684  | 0.0322  | 0.5433  | 0.3211  | 0.9194  | 16.4333  | 0.8718  | 0.1508  |  |
|  |  | Weighted median | 26 | -0.3068  | 0.1033  | 0.0030  | 0.7358  | 0.6010  | 0.9008  |  |  |  |  |
|  | Lymphocytes | Inverse variance weighted | 8 | -0.0929  | 0.1558  | 0.5509  | 0.9113  | 0.6715  | 1.2367  | 6.0317  | 0.5360  |  | 0.571 |
|  |  | MR Egger | 8 | 0.4848  | 0.7427  | 0.5381  | 1.6238  | 0.3788  | 6.9617  | 5.3988  | 0.4938  | 0.4566  |  |
|  |  | Weighted median | 8 | -0.0748  | 0.2001  | 0.7084  | 0.9279  | 0.6269  | 1.3735  |  |  |  |  |
|  | Monocytes | Inverse variance weighted | 33 | -0.0006  | 0.0654  | 0.9923  | 0.9994  | 0.8791  | 1.1361  | 27.0734  | 0.7143  |  | 0.762 |
|  |  | MR Egger | 33 | 0.2774  | 0.2421  | 0.2606  | 1.3196  | 0.8211  | 2.1209  | 25.6507  | 0.7379  | 0.2420  |  |
|  |  | Weighted median | 33 | -0.0199  | 0.0941  | 0.8327  | 0.9803  | 0.8151  | 1.1789  |  |  |  |  |
|  | Neutrophils | Inverse variance weighted | 24 | -0.1096  | 0.0730  | 0.1331  | 0.8962  | 0.7767  | 1.0340  | 23.7611  | 0.4171  |  | 0.426 |
|  |  | MR Egger | 24 | 0.1472  | 0.2835  | 0.6087  | 1.1586  | 0.6647  | 2.0196  | 22.8477  | 0.4104  | 0.3585  |  |
|  |  | Weighted median | 24 | -0.1702  | 0.1028  | 0.0977  | 0.8435  | 0.6896  | 1.0317  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Hepatocarcinoma | Leukocytes | Inverse variance weighted | 33 | -0.2030  | 0.1606  | 0.2061  | 0.8162  | 0.5958  | 1.1182  | 18.4816  | 0.9729  |  | 0.992 |
|  |  | MR Egger | 33 | -0.2020  | 0.5065  | 0.6927  | 0.8171  | 0.3028  | 2.2048  | 18.4816  | 0.9630  | 0.9984  |  |
|  |  | Weighted median | 33 | -0.2286  | 0.2262  | 0.3123  | 0.7956  | 0.5107  | 1.2396  |  |  |  |  |
|  | Basophils | Inverse variance weighted | 25 | -0.0017  | 0.1221  | 0.9886  | 0.9983  | 0.7858  | 1.2682  | 17.0732  | 0.8455  |  | 0.842 |
|  |  | MR Egger | 25 | -0.1256  | 0.3124  | 0.6914  | 0.8820  | 0.4781  | 1.6270  | 16.8877  | 0.8147  | 0.6707  |  |
|  |  | Weighted median | 25 | -0.0887  | 0.1757  | 0.6139  | 0.9152  | 0.6485  | 1.2914  |  |  |  |  |
|  | Eosinophils | Inverse variance weighted | 19 | 0.0632  | 0.1604  | 0.6934  | 1.0653  | 0.7779  | 1.4589  | 12.4730  | 0.8219  |  | 0.798 |
|  |  | MR Egger | 19 | -0.7796  | 0.5904  | 0.2042  | 0.4586  | 0.1442  | 1.4587  | 10.2724  | 0.8918  | 0.1563  |  |
|  |  | Weighted median | 19 | 0.0521  | 0.2171  | 0.8104  | 1.0535  | 0.6884  | 1.6121  |  |  |  |  |
|  | Lymphocytes | Inverse variance weighted | 8 | -0.0309  | 0.2852  | 0.9137  | 0.9695  | 0.5544  | 1.6957  | 2.6718  | 0.9136  |  | 0.918 |
|  |  | MR Egger | 8 | 0.2432  | 1.4245  | 0.8701  | 1.2753  | 0.0782  | 20.8048  | 2.6332  | 0.8533  | 0.8508  |  |
|  |  | Weighted median | 8 | 0.0836  | 0.3562  | 0.8145  | 1.0872  | 0.5409  | 2.1854  |  |  |  |  |
|  | Monocytes | Inverse variance weighted | 31 | -0.0609  | 0.1295  | 0.6381  | 0.9409  | 0.7299  | 1.2128  | 24.3058  | 0.7580  |  | 0.758 |
|  |  | MR Egger | 31 | 0.1845  | 0.4595  | 0.6909  | 1.2027  | 0.4886  | 2.9602  | 23.9958  | 0.7291  | 0.5820  |  |
|  |  | Weighted median | 31 | -0.0798  | 0.1798  | 0.6572  | 0.9233  | 0.6492  | 1.3133  |  |  |  |  |
|  | Neutrophils | Inverse variance weighted | 21 | -0.2477  | 0.1450  | 0.0875  | 0.7806  | 0.5875  | 1.0371  | 10.0991  | 0.9663  |  | 0.962 |
|  |  | MR Egger | 21 | 0.4933  | 0.5536  | 0.3841  | 1.6377  | 0.5533  | 4.8469  | 8.1755  | 0.9848  | 0.1815  |  |
|  |  | Weighted median | 21 | -0.2300  | 0.2007  | 0.2520  | 0.7946  | 0.5361  | 1.1776  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Pancreatic cancer | Leukocytes | Inverse variance weighted | 41 | -0.1658  | 0.2971  | 0.5767  | 0.8472  | 0.4732  | 1.5167  | 36.4616  | 0.6303  |  | 0.752 |
|  |  | MR Egger | 41 | 0.3547  | 0.9384  | 0.7075  | 1.4258  | 0.2266  | 8.9710  | 36.1197  | 0.6020  | 0.5621  |  |
|  |  | Weighted median | 41 | 0.1809  | 0.4753  | 0.7035  | 1.1982  | 0.4721  | 3.0415  |  |  |  |  |
|  | Basophils | Inverse variance weighted | 27 | -0.1475  | 0.2407  | 0.5398  | 0.8628  | 0.5383  | 1.3829  | 24.0601  | 0.5725  |  | 0.636 |
|  |  | MR Egger | 27 | -0.1363  | 0.6326  | 0.8312  | 0.8726  | 0.2525  | 3.0152  | 24.0597  | 0.5159  | 0.9848  |  |
|  |  | Weighted median | 27 | -0.0991  | 0.3923  | 0.8006  | 0.9057  | 0.4198  | 1.9538  |  |  |  |  |
|  | Eosinophils | Inverse variance weighted | 23 | -0.4544  | 0.3066  | 0.1383  | 0.6348  | 0.3481  | 1.1577  | 12.1707  | 0.9538  |  | 0.968 |
|  |  | MR Egger | 23 | -0.0274  | 1.1138  | 0.9806  | 0.9730  | 0.1096  | 8.6346  | 12.0116  | 0.9393  | 0.6941  |  |
|  |  | Weighted median | 23 | -0.6251  | 0.4438  | 0.1590  | 0.5352  | 0.2243  | 1.2773  |  |  |  |  |
|  | Lymphocytes | Inverse variance weighted | 8 | -0.4666  | 0.5817  | 0.4225  | 0.6271  | 0.2005  | 1.9612  | 7.2285  | 0.4055  |  | 0.414 |
|  |  | MR Egger | 8 | 2.5097  | 2.9112  | 0.4218  | 12.3007  | 0.0409  | 3698.2643  | 6.1188  | 0.4100  | 0.3371  |  |
|  |  | Weighted median | 8 | -1.1060  | 0.7506  | 0.1406  | 0.3309  | 0.0760  | 1.4408  |  |  |  |  |
|  | Monocytes | Inverse variance weighted | 33 | 0.0054  | 0.2519  | 0.9830  | 1.0054  | 0.6136  | 1.6473  | 16.8228  | 0.9873  |  | 0.986 |
|  |  | MR Egger | 33 | -0.2048  | 0.9450  | 0.8298  | 0.8148  | 0.1278  | 5.1937  | 16.7695  | 0.9824  | 0.8190  |  |
|  |  | Weighted median | 33 | 0.1979  | 0.3619  | 0.5845  | 1.2188  | 0.5996  | 2.4773  |  |  |  |  |
|  | Neutrophils | Inverse variance weighted | 24 | -0.0681  | 0.2790  | 0.8071  | 0.9342  | 0.5406  | 1.6141  | 17.7812  | 0.7692  |  | 0.818 |
|  |  | MR Egger | 24 | -0.2809  | 1.0830  | 0.7977  | 0.7551  | 0.0904  | 6.3073  | 17.7398  | 0.7213  | 0.8407  |  |
|  |  | Weighted median | 24 | 0.1038  | 0.4042  | 0.7973  | 1.1094  | 0.5024  | 2.4500  |  |  |  |  |
| Abbreviations: CI, Confidence interval; NO.: Number; OR, Odds Ratio; Q, Cochran Q statistics; SNPs, single nucleotide polymorphisms. |
| OR and 95% CI represent change in odds ratio of cancers per 1 SD increase in of each blood leukocyte subtypes. |
| 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  |  |  |  |  |  |  |  |  |  |  |  |  |