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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 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 | |  | |  | |  |  | |  |  | |  | |  |  | |  |  | |  |