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| Table S5. Total R2 and Mean F statistics of genetic predictors of six leukocyte traits on five digestive system cancers. |
| Cancers | Trait name  | Asian Cohort | European Cohort |
| Instrumental variables (N) | R2 (total) | F-statistic (median) | Instrumental variables (N) | R2 (total) | F-statistic (median) |
| Esophageal cancer | LEU | 39 | 0.0278648 | 73.65225 | 300 | 0.09295875 | 179.4046 |
|  | BASO | 27 | 0.03874594 | 89.32042 | 87 | 0.02938358 | 163.0317 |
|  | EOS | 26 | 0.0278138 | 68.27667 | 299 | 0.1129182 | 197.4061 |
|  | LYM | 11 | 0.008872931 | 50.51087 | 301 | 0.1034918 | 194.8346 |
|  | MONO | 35 | 0.03702017 | 66.24964 | 389 | 0.1673405 | 258.6264 |
|  | NEU | 22 | 0.02933492 | 81.53488 | 231 | 0.0773964 | 162.6994 |
| Gastric cancer | LEU | 37 | 0.02650888 | 73.47057 | 289 | 0.08924027 | 178.1893 |
|  | BASO | 24 | 0.02656173 | 70.54814 | 84 | 0.02766133 | 158.611 |
|  | EOS | 21 | 0.01991974 | 60.05823 | 287 | 0.1133942 | 205.0041 |
|  | LYM | 7 | 0.005997647 | 53.50116 | 300 | 0.101975 | 192.7891 |
|  | MONO | 34 | 0.0352043 | 64.67912 | 390 | 0.1648027 | 253.2601 |
|  | NEU | 23 | 0.02985979 | 79.57742 | 223 | 0.07405003 | 175.409 |
| Colorectal cancer | LEU | 36 | 0.02612053 | 74.22159 | 298 | 0.08951393 | 156.5943 |
|  | BASO | 26 | 0.02983193 | 70.66402 | 82 | 0.02830756 | 166.339 |
|  | EOS | 26 | 0.0278138 | 68.27667 | 295 | 0.1118911 | 198.3637 |
|  | LYM | 8 | 0.005893791 | 45.99734 | 288 | 0.09918286 | 193.0899 |
|  | MONO | 33 | 0.03515137 | 66.47876 | 371 | 0.1604052 | 258.4113 |
|  | NEU | 24 | 0.03060893 | 78.37019 | 225 | 0.07264691 | 169.4201 |
| Hepatocarcinoma | LEU | 33 | 0.02377158 | 73.00192 | 295 | 0.09090507 | 178.3808 |
|  | BASO | 25 | 0.03652372 | 90.46808 | 85 | 0.02921521 | 165.3717 |
|  | EOS | 19 | 0.02100634 | 70.08107 | 292 | 0.1081618 | 191.0283 |
|  | LYM | 8 | 0.006431279 | 50.21925 | 289 | 0.09934013 | 193.7764 |
|  | MONO | 31 | 0.03291732 | 65.99387 | 379 | 0.163387 | 233.917 |
|  | NEU | 21 | 0.02768728 | 80.31828 | 224 | 0.07459071 | 175.1553 |
| Pancreatic cancer | LEU | 41 | 0.0282454 | 71.29128 | 295 | 0.08781473 | 170.6606 |
|  | BASO | 27 | 0.03874594 | 89.32042 | 88 | 0.02988494 | 164.0341 |
|  | EOS | 23 | 0.02375599 | 65.65121 | 291 | 0.1128646 | 201.0601 |
|  | LYM | 8 | 0.006578065 | 51.37303 | 294 | 0.1008584 | 193.6952 |
|  | MONO | 33 | 0.03582077 | 67.79178 | 383 | 0.1572771 | 244.3976 |
|  | NEU | 24 | 0.03046804 | 77.99813 | 229 | 0.07267906 | 168.1005 |
| LEU, Leukocytes count; BASO, Basophils count; EOS, Eosinophils count; LYM, Lymphocytes count; MONO, Monocytes count; NEU, Neutrophils count. |