Table S1

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Phenotypes** | **ID** | **ncase** | **ncontrol** | **Sample size** | **Ethnicity** |
| COPD | finn-b-PULM\_INFECTIONS | 58,925 | 159,867 | 218,792 | European |
| Vitamin A | ukb-a-464 | 71,695 | 263,896 | 335,591 | European |
| Vitamin E | ukb-e-100025\_AFR | 1,209 | — | 1,209 | African American or Afro-Caribbean |
| Vitamin C | ukb-e-100015\_AFR | 1,209 | — | 1,209 | African American or Afro-Caribbean |
| Zinc | bbj-a-59 | — | — | 12,303 | East Asian |
| Carotene | ukb-b-16202 | — | — | 64,979 | European |
| Selenium | ieu-a-1075 | — | — | 2,874 | European |

Table S2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| SNP | Effect allele exposure | Other allele exposure | Se exposure | Beta exposure | Eaf exposure | Pval exposure |
| rs56029638 | A | G | 0.05552 | 0.254 | 0.5845 | 4.78E-06 |
| rs146692202 | T | C | 0.2549 | 1.178 | 0.98891 | 3.78E-06 |
| rs78345240 | A | G | 0.1465 | -0.6848 | 0.96609 | 2.94E-06 |
| rs742511 | T | C | 0.06722 | 0.309 | 0.1923 | 4.28E-06 |
| rs17099658 | G | A | 0.2794 | 1.288 | 0.98547 | 4.03E-06 |
| rs9557038 | T | C | 0.2734 | 1.391 | 0.98646 | 3.58E-07 |
| rs1406658 | T | C | 0.09916 | -0.472 | 0.92806 | 1.94E-06 |
| rs11157420 | T | A | 0.05705 | -0.2671 | 0.3241 | 2.85E-06 |
| rs4779640 | A | G | 0.07897 | -0.3835 | 0.8706 | 1.20E-06 |
| rs59540684 | A | T | 0.05394 | 0.2484 | 0.4074 | 4.11E-06 |
| rs1842783 | G | A | 0.09233 | -0.4304 | 0.90433 | 3.14E-06 |
| rs1079734 | A | G | 0.06739 | -0.3342 | 0.1922 | 7.07E-07 |