

Description of Additional Supplementary files

File name: Supplementary Data 1

Description: Genetic instruments of vitamin B12 and folate levels.

File name: Supplementary Data 2

Description: Phenome-wide associations with genetic instruments.

File name: Supplementary Data 3

Description: Within-sibship genome wide association studies.

File name: Supplementary Data 4

Description: Estimated associations between vitamin B12 and folate levels and anemia based on exome-sequencing data from the UK Biobank.

File name: Supplementary Data 5

Description: Mendelian randomization results using vitamin B12 as exposure.

File name: Supplementary Data 6

Description: Mendelian randomization results using folate as exposure.

File name: Supplementary Data 7

Description: Sensitivity analyses after excluding FUT2 variant.

File name: Supplementary Data 8

Description: Sensitivity analyses after excluding all possibly pleiotropic variants.

File name: Supplementary Data 9

Description: Mendelian randomization results based on within-sibship genome-wide association studies of depressive symptoms, educational attainment, and cognitive performance