

Title: Supplementary Data 1

Description: Trait Distribution in Stage 1 studies

Title: Supplementary Data 2

Description: Trait Distribution in Stage 2 studies

Title: Supplementary Data 3

Description: Replicated lead SNPs from known regions for blood lipid levels in multi-ancestry cohorts - Long Total Sleep Time

Title: Supplementary Data 4

Description: Replicated leads SNPs from known regions for blood lipid levels in multi-ancestry cohorts - Short Total Sleep Time

Title: Supplementary Data 5

Description: Interaction effects of known SNPs with either LTST or STST

Title: Supplementary Data 6

Description: Replicated novel lead SNPs for blood lipid levels in multi-ancestry cohorts - Long Total Sleep Time

Title: Supplementary Data 7

Description: Replicated novel lead SNPs for blood lipid levels in multi-ancestry cohorts - Short Total Sleep Time

Title: Supplementary Data 8

Description: Replicated novel lead SNPs for blood lipid levels in European ancestry cohorts - Long Total Sleep Time

Title: Supplementary Data 9

Description: Replicated novel lead SNPs for blood lipid levels in European ancestry cohorts - Short Total Sleep Time

Title: Supplementary Data 10

Description: SNP main effects stratified by exposure to LTST in the multi-ancestry meta-analyses based on the discovery cohorts

Title: Supplementary Data 11

Description: SNP main effects stratified by exposure to STST in the multi-ancestry meta-analyses based on the discovery cohorts

Title: Supplementary Data 12

Description: Look-up of newly identified loci on different questionnaire-based sleep phenotypes in the UK Biobank

Title: Supplementary Data 13

Description: Look-up of newly identified loci on different accelerometer-based sleep phenotypes in the UK Biobank

Title: Supplementary Data 14

Description: gene look-up in the GWAS catalog ($p < 5e-8$), *italic font* indicates sleep-related trait ($p > 5e-8$)

Title: Supplementary Data 15

Description: Differential expression data of novel SNPs in different tissues from the GTEx database