

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Lead SNPs from the GWAS loci for testosterone, SHBG, FAI and free testosterone, with annotations.

File Name: Supplementary Data 2

Description: GWAS summaries and genetic connections between the studied testosterone traits based on the UK Biobank data.

File Name: Supplementary Data 3

Description: Results from genetic pathway analyses implemented in FUMA.

File Name: Supplementary Data 4

Description: Sharing of total testosterone, SHBG, FAI and free testosterone loci between males and females based on gwas-pw analyses.

File Name: Supplementary Data 5

Description: Properties of the sex-shared loci for total testosterone and free testosterone.

File Name: Supplementary Data 6

Description: Characteristics of the Young Finns Cohort and results from the replication analyses for T and related traits.

File Name: Supplementary Data 7

Description: Results from PGS analyses in FinnGen.

File Name: Supplementary Data 8

Description: Results from latent causal variable (LCV) and Mendelian Randomisation (MR) analyses in FinnGen.

File Name: Supplementary Data 9

Description: Results from cross-sex PGS analyses in FinnGen.

File Name: Supplementary Data 10

Description: Highlights from cross-sex analyses in FinnGen.

File Name: Supplementary Data 11

Description: Genetic correlation (r_g) of T, SHBG, FAI and free T over 44 selected traits from published GWAS.

File Name: Supplementary Data 12

Description: Results from latent causal variable (LCV) and Mendelian Randomisation (MR) analyses over 44 selected traits from published GWAS.

File Name: Supplementary Data 13

Description: Genetic correlation (r_g) results between sex-specific GWAS in the UK Biobank.