

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Genome wide association results ($P < 8.3 \times 10^{-9}$) for all 6 traits.

File Name: Supplementary Data 2

Description: Post hoc sensitivity analyses.

File Name: Supplementary Data 3

Description: Coding variants in LD with the sentinel SNPs.

File Name: Supplementary Data 4

Description: eQTLs in LD with the sentinel SNPs.

File Name: Supplementary Data 5

Description: Results of pathway analyses.

File Name: Supplementary Data 6

Description: Intersection between the newly identified loci and previously reported heart rate loci.

File Name: Supplementary Data 7

Description: Intersection between the newly identified loci and any other previously reported GWAS loci.

File Name: Supplementary Data 8

Description: Lookup of the newly identified loci in GWAS summary results using phenomescanner.

File Name: Supplementary Data 9

Description: Associations of genome-wide significant SNPs unadjusted, and after adjustments of resting HR, HR-variability and HR-increase.

File Name: Supplementary Data 10

Description: Polygenic risk score analyses in the UK Biobank cohort.