

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Results of transcriptome-wide association study of intrinsic epigenetic age acceleration.

File Name: Supplementary Data 2

Description: Results of transcriptome-wide association study of HannumAge.

File Name: Supplementary Data 3

Description: Results of transcriptome-wide association study of GrimAge.

File Name: Supplementary Data 4

Description: Results of transcriptome-wide association study of PhenoAge.

File Name: Supplementary Data 5

Description: Results of transcriptome-wide association study of multivariate longevity.

File Name: Supplementary Data 6

Description: Conditionally significant transcriptome-wide association study findings.

File Name: Supplementary Data 7

Description: Transcriptome-wide association study findings with a FOCUS posterior inclusion probability > 0.5 .

File Name: Supplementary Data 8

Description: PrismEXP results: Gene Ontology biological processes.

File Name: Supplementary Data 9

Description: PrismEXP results: Gene Ontology cellular components.

File Name: Supplementary Data 10

Description: PrismEXP results: Gene Ontology molecular functions.

File Name: Supplementary Data 11

Description: PrismEXP results: Gene Ontology gene sets linked to multiple aging traits.

File Name: Supplementary Data 12

Description: Drug target Mendelian randomization instrument SNP data.

File Name: Supplementary Data 13

Description: Results of drug-target Mendelian randomization analysis of intrinsic epigenetic age acceleration.

File Name: Supplementary Data 14

Description: Results of drug-target Mendelian randomization analysis of HannumAge.

File Name: Supplementary Data 15

Description: Results of drug-target Mendelian randomization analysis of GrimAge.

File Name: Supplementary Data 16

Description: Results of drug-target Mendelian randomization analysis of PhenoAge.

File Name: Supplementary Data 17

Description: Results of drug-target Mendelian randomization analysis of multivariate longevity.

File Name: Supplementary Data 18

Description: Results of phenome-wide association study of top results from intrinsic epigenetic age acceleration drug-target Mendelian randomization analysis.

File Name: Supplementary Data 19

Description: Results of phenome-wide association study of top results from HannumAge drug-target Mendelian randomization analysis.

File Name: Supplementary Data 20

Description: Results of phenome-wide association study of top results from GrimAge drug-target Mendelian randomization analysis.

File Name: Supplementary Data 21

Description: Results of phenome-wide association study of top results from PhenoAge drug-target Mendelian randomization analysis.

File Name: Supplementary Data 22

Description: Results of phenome-wide association study of top results from multivariate longevity drug-target Mendelian randomization analysis.

File Name: Supplementary Data 23

Description: Exposures assessed in metabolome-wide Mendelian randomization analysis.

File Name: Supplementary Data 24

Description: Metabolome-wide Mendelian randomization analysis instrument SNP data.

File Name: Supplementary Data 25

Description: Results of metabolome-wide Mendelian randomization analysis on intrinsic epigenetic age acceleration.

File Name: Supplementary Data 26

Description: Results of metabolome-wide Mendelian randomization analysis on PhenoAge.

File Name: Supplementary Data 27

Description: Results of metabolome-wide Mendelian randomization analysis on HannumAge.

File Name: Supplementary Data 28

Description: Results of metabolome-wide Mendelian randomization analysis on GrimAge.

File Name: Supplementary Data 29

Description: Results of metabolome-wide Mendelian randomization analysis on multivariate longevity.

File Name: Supplementary Data 30

Description: Results of CELLECT cell-type enrichment analysis of intrinsic epigenetic age acceleration.

File Name: Supplementary Data 31

Description: Results of CELLECT cell-type enrichment analysis of HannumAge.

File Name: Supplementary Data 32

Description: Results of CELLECT cell-type enrichment analysis of GrimAge.

File Name: Supplementary Data 33

Description: Results of CELLECT cell-type enrichment analysis of PhenoAge.

File Name: Supplementary Data 34

Description: Results of CELLECT cell-type enrichment analysis of multivariate longevity.

File Name: Supplementary Data 35

Description: Immune trait exposures assessed in Mendelian randomization analysis of immune traits on aging traits.

File Name: Supplementary Data 36

Description: Mendelian randomization analysis of immune traits on aging traits instrument SNP data.

File Name: Supplementary Data 37

Description: Results of Mendelian randomization analysis of immune traits on multivariate longevity.

File Name: Supplementary Data 38

Description: Results of Mendelian randomization analysis of immune traits on intrinsic epigenetic age acceleration.

File Name: Supplementary Data 39

Description: Results of Mendelian randomization analysis of immune traits on HannumAge.

File Name: Supplementary Data 40

Description: Results of Mendelian randomization analysis of immune traits on GrimAge.

File Name: Supplementary Data 41

Description: Results of Mendelian randomization analysis of immune traits on PhenoAge.

File Name: Supplementary Data 42

Description: Mendelian randomization analysis of aging traits on immune traits instrument SNP data.

File Name: Supplementary Data 43

Description: Results of Mendelian randomization analysis of intrinsic epigenetic age acceleration on immune traits.

File Name: Supplementary Data 44

Description: Results of Mendelian randomization analysis of HannumAge on immune traits.

File Name: Supplementary Data 45

Description: Results of Mendelian randomization analysis of GrimAge on immune traits.

File Name: Supplementary Data 46

Description: Results of Mendelian randomization analysis of PhenoAge on immune traits.

File Name: Supplementary Data 47

Description: Results of Mendelian randomization analysis of multivariate longevity on immune traits.