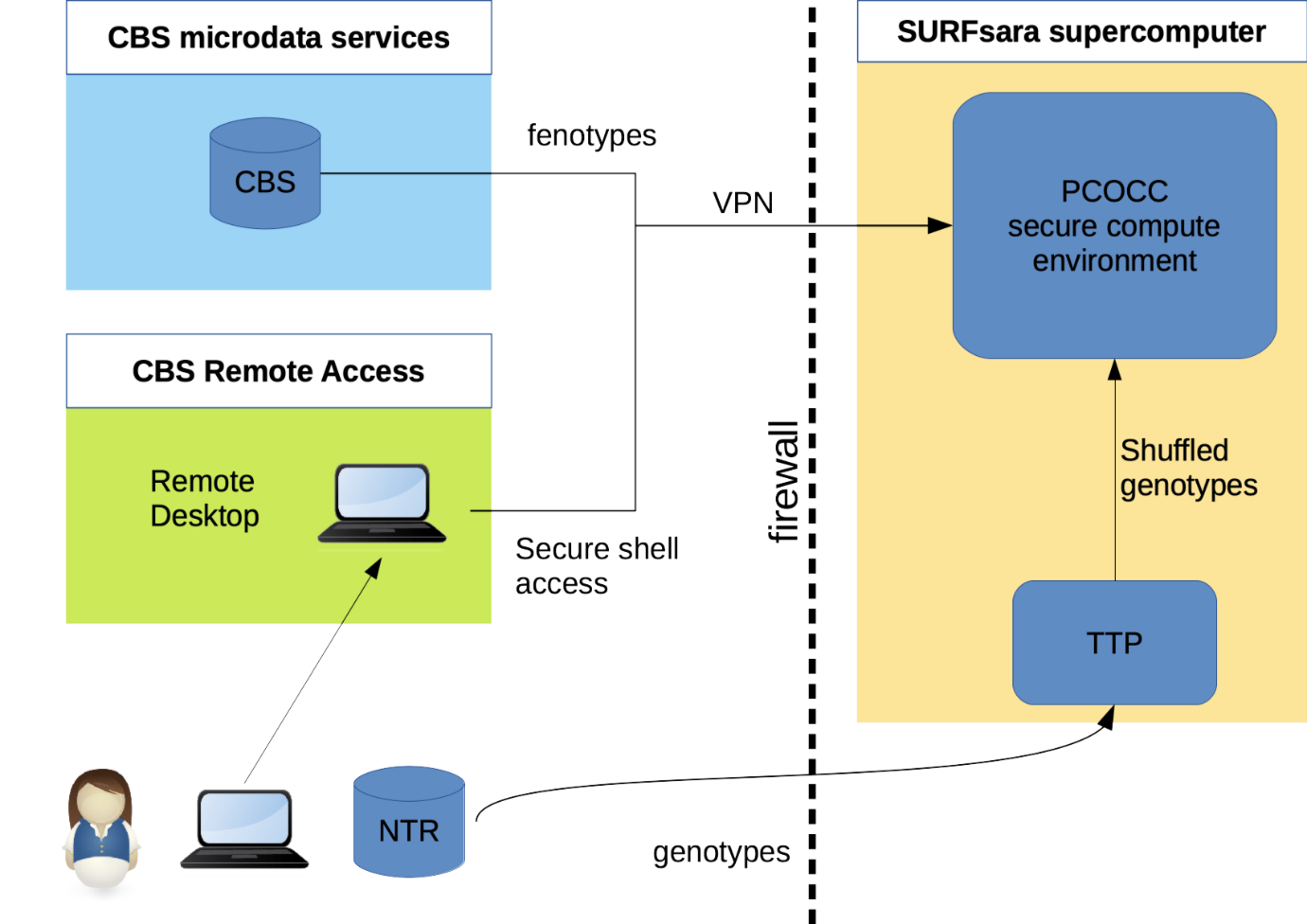
Twin Research and Human Genetics

Supplementary figures

**Safe Linkage of Cohort and Population-Based Register Data in a Genomewide Association Study on Health-Care Expenditure**

Eveline L. de Zeeuw1, Lykle Voort5, Ruurd Schoonhoven5, Michel G. Nivard2,3, Thomas Emery6, Jouke-Jan Hottenga2, Gonneke A. H. M. Willemsen2,3, Pearl A. Dykstra7, Narges Zarrabi4, John D. Kartopawiro5, Dorret I. Boomsma2,3,8

**Figure S1.** Architecture of the ODISSEI Secure Supercomputer (OSSC)

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**Figure S2.** Histogram of health care expenditure for (A) mental health care, (B) medication, (C) primary care and (D) hospital care

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**A B**

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**C D**

**Figure S3.** (A) Q-Q plot and (B) Manhattan plot of P-values of the genome-wide association analysis for mental health care expenditure

**A**

****

**B**

**Note.** The top line is the genome-wide significance threshold (p < 5x10-8) and the bottom line indicates the threshold for suggestive significance (p < 1x10-5)

**Figure S4.** (A) Q-Q plot and (B) Manhattan plot of P-values of the genome-wide association analysis for medication expenditure

**A**

****

**B**



**Note.** The top line is the genome-wide significance threshold (p < 5x10-8) and the bottom line indicates the threshold for suggestive significance (p < 1x10-5)

**Figure S5.** (A) Q-Q plot and (B) Manhattan plot of P-values of the genome-wide association analysis for primary care expenditure

A

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**B**



**Note.** The top line is the genome-wide significance threshold (p < 5x10-8) and the bottom line indicates the threshold for suggestive significance (p < 1x10-5)

**Figure S6.** (A) Q-Q plot and (B) Manhattan plot of P-values of the genome-wide association analysis for hospital care expenditure

A

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**B**



**Note.** The top line is the genome-wide significance threshold (p < 5x10-8) and the bottom line indicates the threshold for suggestive significance (p < 1x10-5)