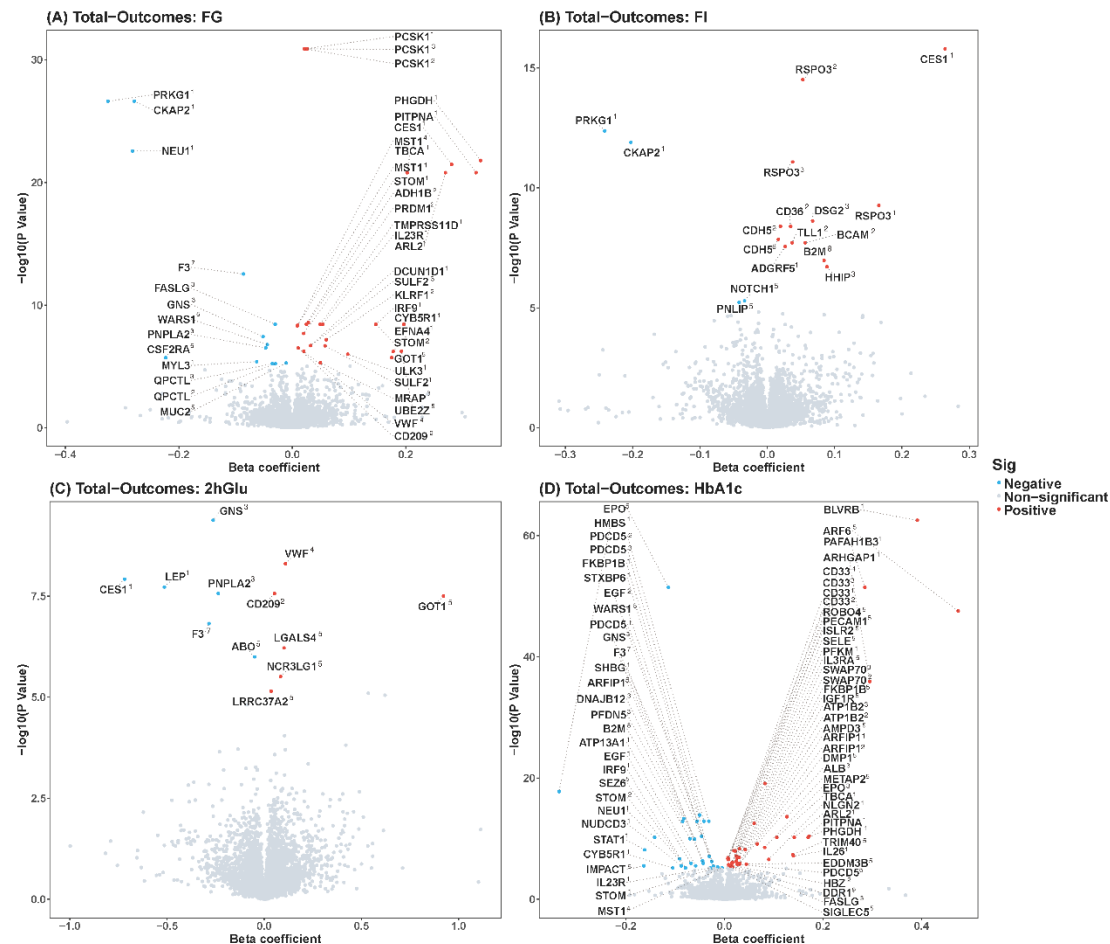


Supplementary Figures

Supplementary Figure 1: Volcano plot for the cis-trans MR analyses, with circles representing the results for proteins on glycemic traits. (A) for fasting glucose (FG); (B) for fasting insulin (FI); (C) for 2-h glucose after an oral glucose challenge (2hGlu); (D) for glycated hemoglobin (HbA1c)



¹Egil Ferkingstad, et al 2021

²Benjamin B. Sun, et al 2018

³Alexander Gudjonsson, et al 2022

⁴Karsten Suhre, et al 2017

⁵Benjamin B. Sun, et al 2023

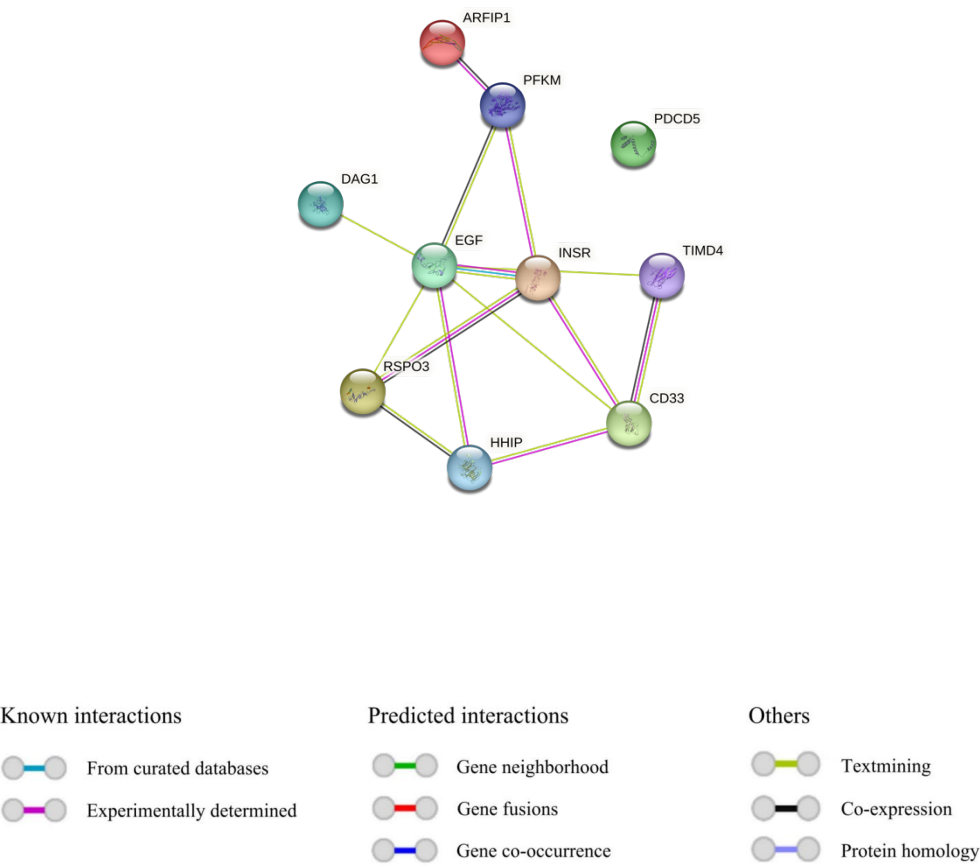
⁶Arthur Gilly, et al 2020

⁷Lasse Folkersen, et al 2017

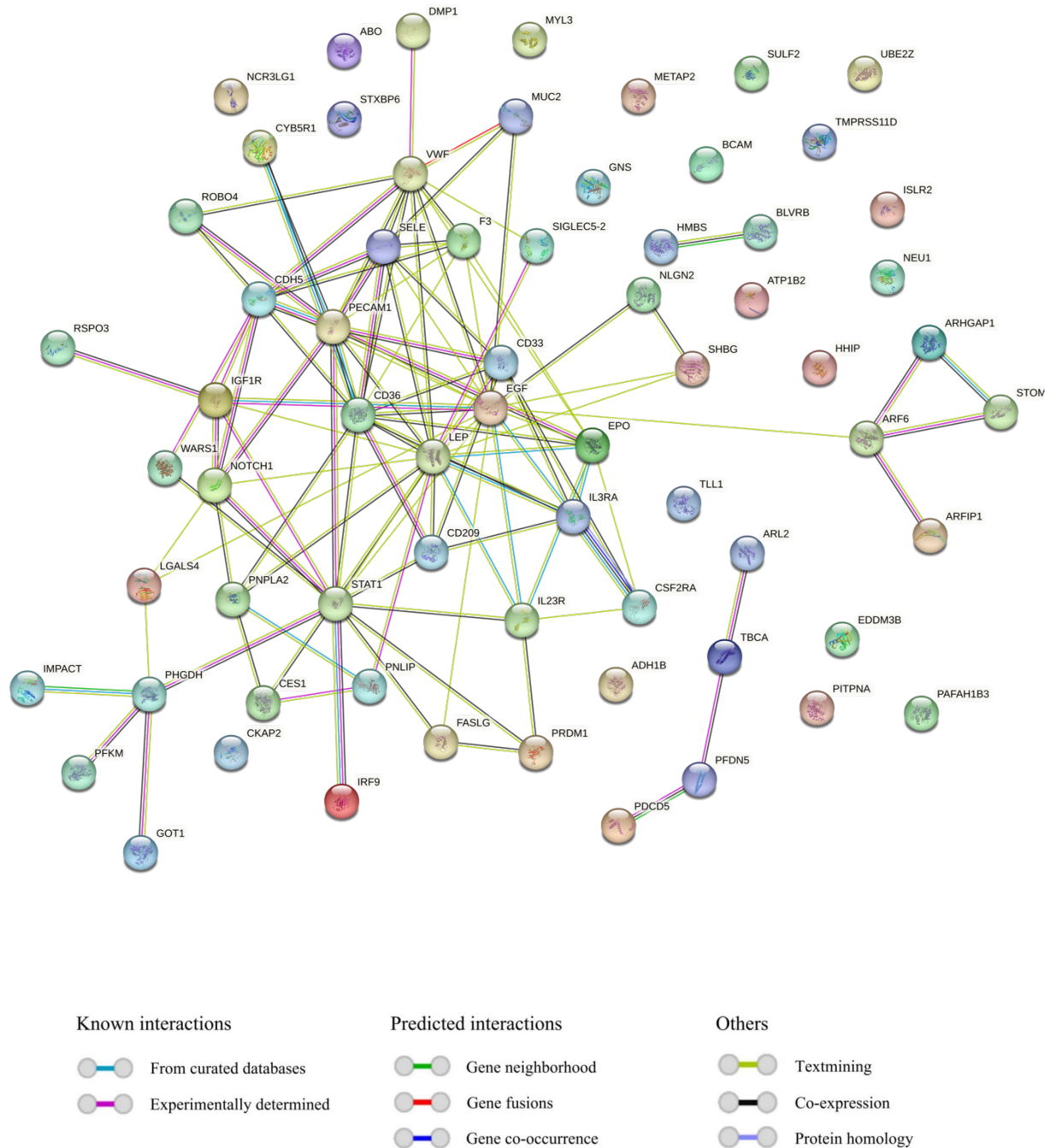
⁸Chen Yao, et al 2018

⁹Robert F. Hillary, et al 2019

Supplementary Figure 2. Protein – protein interaction networks of the cis-pQTLs

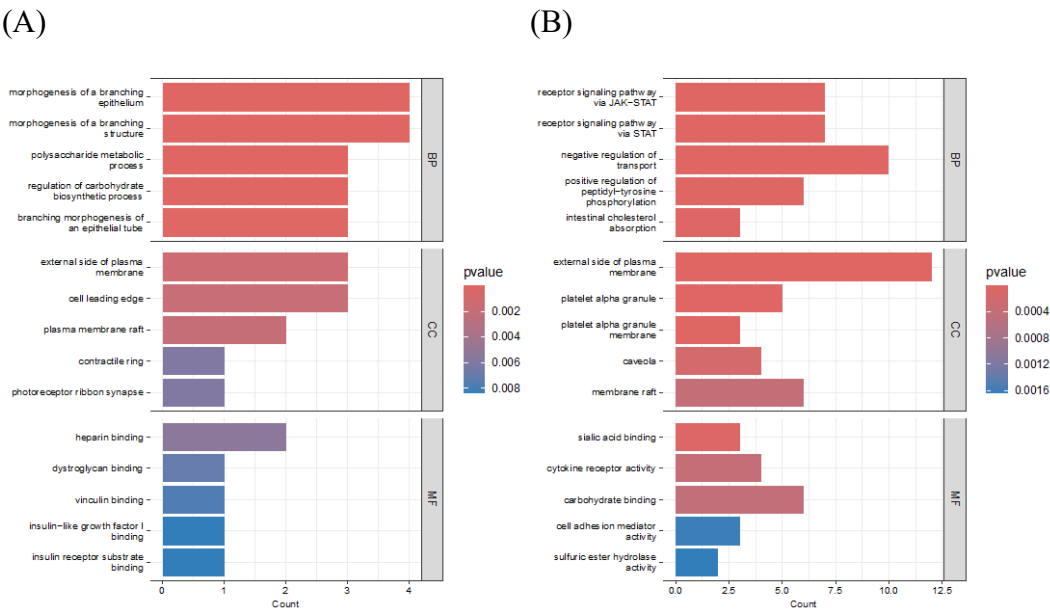


Supplementary Figure 3. Protein – protein interaction networks of the cis/trans-pQTLs



Supplementary Figure 4. Bar plot of the enriched pathway in GO analysis

(A) Enriched pathways of the proteins prioritized by cis-only MR. (B) Enriched pathways of the proteins prioritized by cis+trans MR.



Supplementary Figure 5. Bar plot of the enriched pathway in KEGG analysis

(A) Enriched pathways of the proteins prioritized by cis-only MR. (B) Enriched pathways of the proteins prioritized by cis+trans MR.

