

Supplementary Table 1: Summary statistics comparing S-MultiXcan and S-PrediXcan on public GWAS

Traits with more S-MultiXcan-significant associations	51
Traits with more S-PrediXcan-significant associations	20
Tied traits	12
Traits without significant associations	26
Average increase in significant associations for S-MultiXcan *	10.8
Average significant association overlap **	53 %

*: average performed across traits where there is at least one S-PrediXcan- or S-MultiXcan-significant association.

** : computed as $\frac{\#shared}{\#union(SM,SP)}$, with SM the S-MultiXcan-significant associations, SP the S-PrediXcan-significant associations, and $\#shared$ the number of shared associations.