Binary traits (Binomial model) Quantitative traits (Gaussian model) Mean platelet volume 0.4 -Spearman's $\rho = 0.03$ Hair color (red) Spearman's $\rho = 0.61$ (p-value: 0.64) (p-value: 2.2e-59) 0.3 0.3 Hair color (blonde) Porphyrin and bilirubin metabolism Incremental AUC Genetic Celiac disease disorders (TTE) hematological \mathbb{R}^2 Hair color (dark brown) disorder **Iritis** Incremental Direct billirubin Lipoprotein A Type 1 diabetes Intestinal malabsorption (TTE) Apolipoprotein B Ankylosing spondylitis Other coagulation defects (TTE) 0.1 0.1 EBNA-1 antigen for Epstein-Barr Virus 0.0 0.0 100 10 1000 10000 Number of genetic variants 10 100 10000 1000 Number of genetic variants Lifestyle and environment Cancer Others Bone-densitometry of heel Disease outcome Anthropometry Trait category Trait category Family history Psychosocial factors **Biomarkers** Lifestyle and environment Health and medical history **Blood** assays Others