Binary traits (Binomial model) Quantitative traits (Gaussian model) 0.5 -Hair color (red) Lipoprotein A 0.15 Hayfever rhinitis or eczema diagnosed by doctor Mean reticulocyte volume Asthma diagnosed by doctor Spearman's $\rho = 0.77$ Spearman's $\rho = 0.46$ Hypothyroidism/myxoedema 0.03 -(p-value: 1.4e-31) (p-value: 5e-49) Red blood cell coun Predictive performance (Tjur's pseudo R^2) LDL cholestero Hayfever allergic rhinitis or eczema 0.10 Never Smoker TTE disorders of 0.4 (R^2) 0.02 Mean platelet volume Non-melanoma skin cancer Predictive performance Total bilirubin 0.05 Vitamin D Worrier / anxious feelings 0.01 Hair color (blonde) 0.2 -Aair color Platelet distribution width Platelet count dark brown) 0.2 -Direct billirubin/ Mean corpuscular volume 0.00 Ease of skin tanning 0.2 0.1 (Never tan, only burn) Standing height 0.00 0.05 0.10 Hair color (brown) 6mm weak meridian (left) Started insulin within one year diagnosis of diabetes Hair color (black) High Blood Pressure diagnosed by doctor Hair color (light brown) JCV seropositivity for Human Polyomavirus JCV EBNA-1 antigen for Epstein-Barr Virus -lypertension MCV seropositivity for Merkel Cell Polyomavirus 0.0 0.0 0.0 0.6 0.9 Estimated SNP-based heritability [SE] 0.0 0.4 Estimated SNP-based heritability [SE] Cancer Lifestyle and environment Anthropometry Bone-densitometry of heel Others Disease outcome Trait category Family history Psychosocial factors Trait category Biomarkers Lifestyle and environment Health and medical history Blood assays Others

0.3

1.2