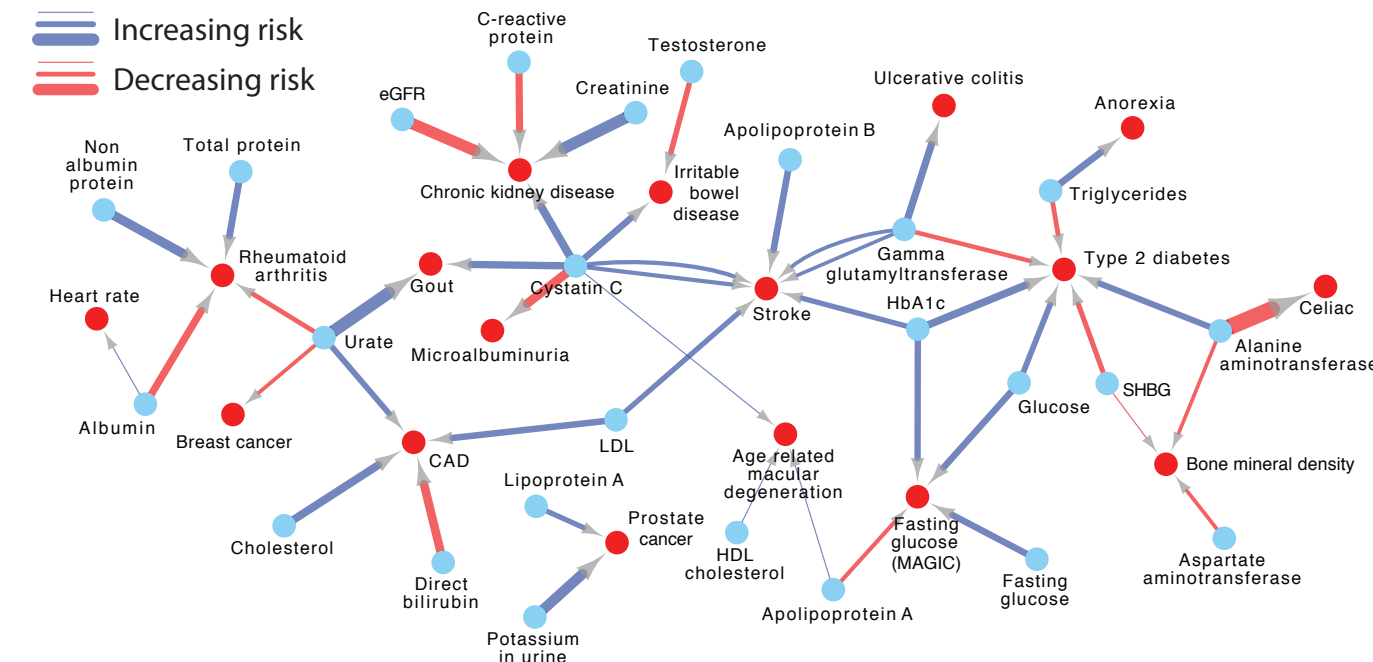
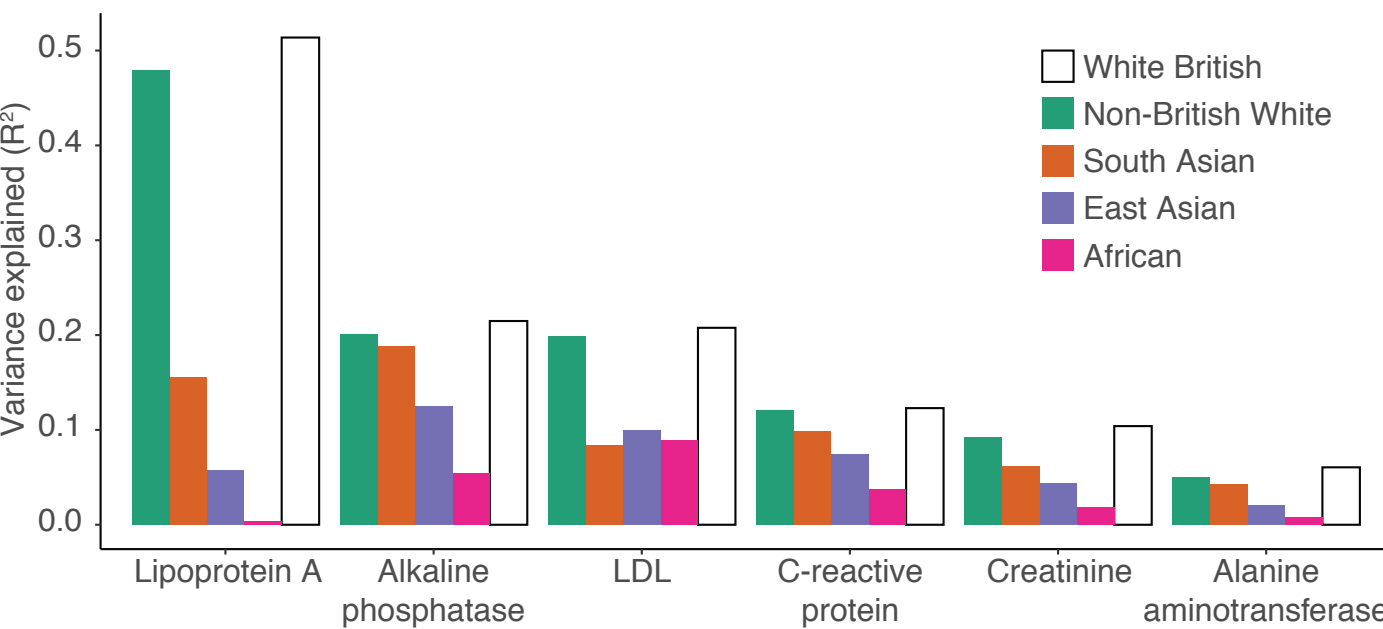


A. Causal inference of biomarkers on disease outcomes using Mendelian Randomization



B. Development and portability of polygenic risk scores using snpnet



C. Prediction of disease outcomes using biomarker polygenic scores

