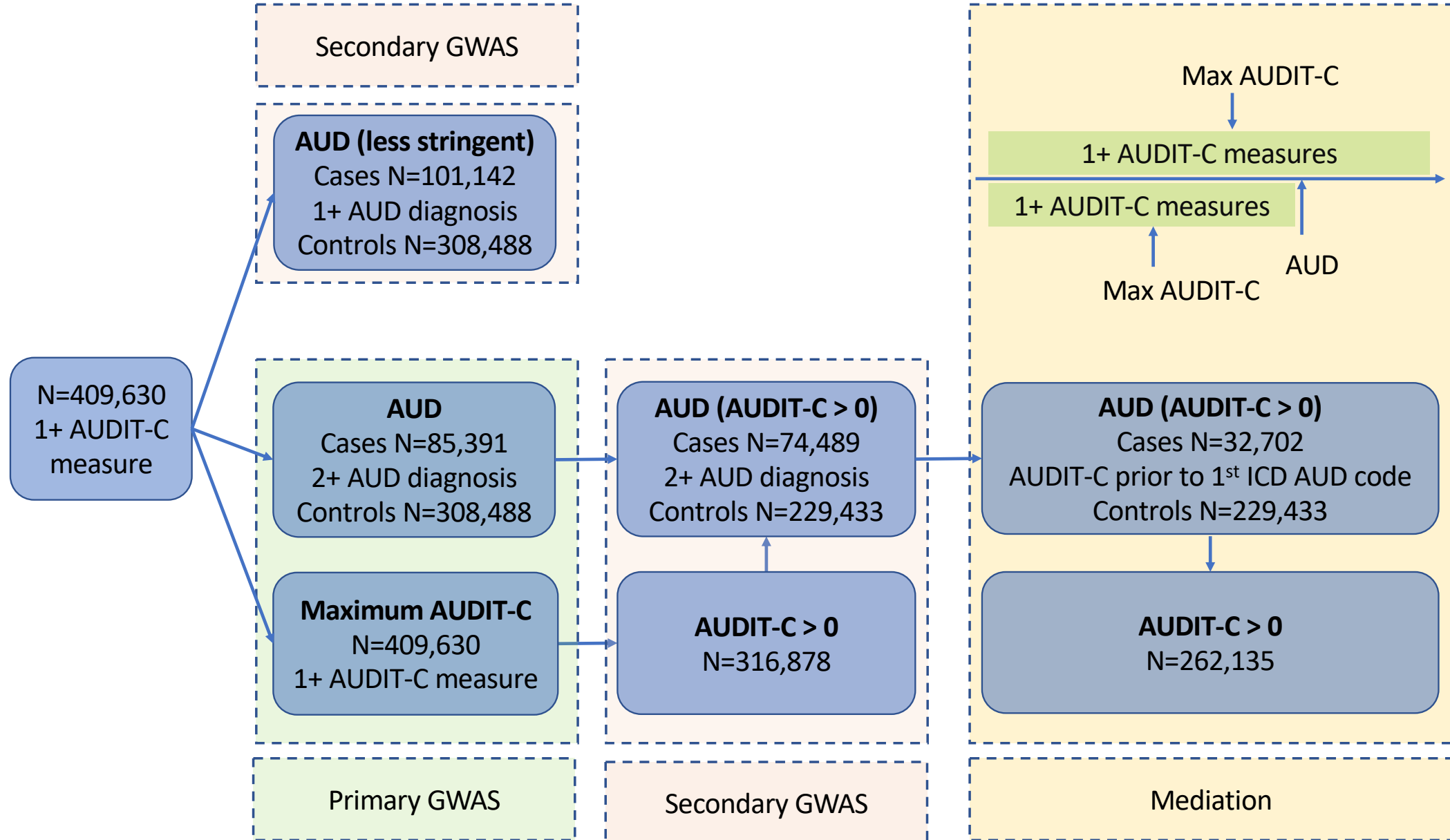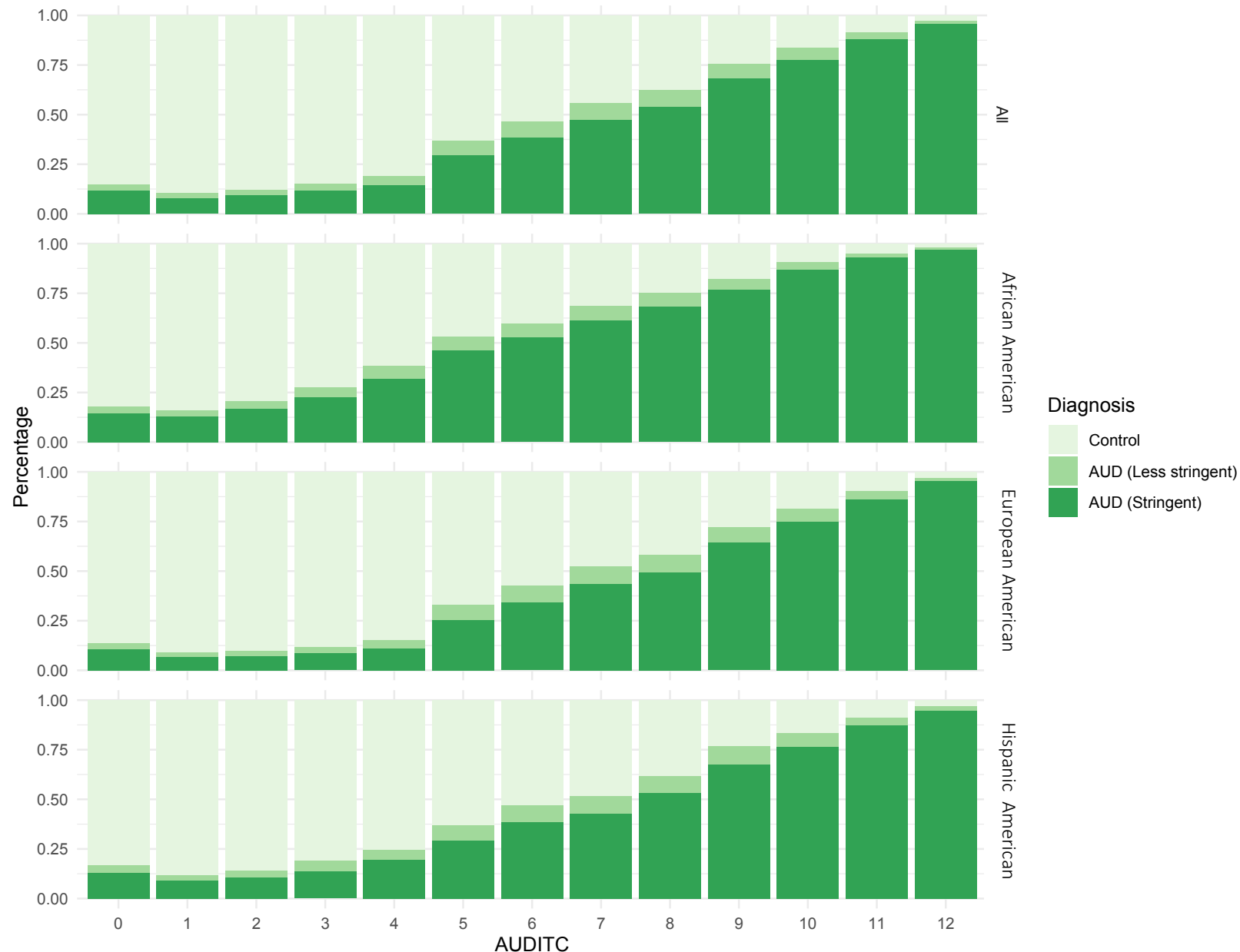Figure S1: Analytic methods

Figure S2: AUDIT-C scores

Figure S3: Summary of GWAS results

Numbers in circles at top represent number of GWS loci overlapping between GWAS
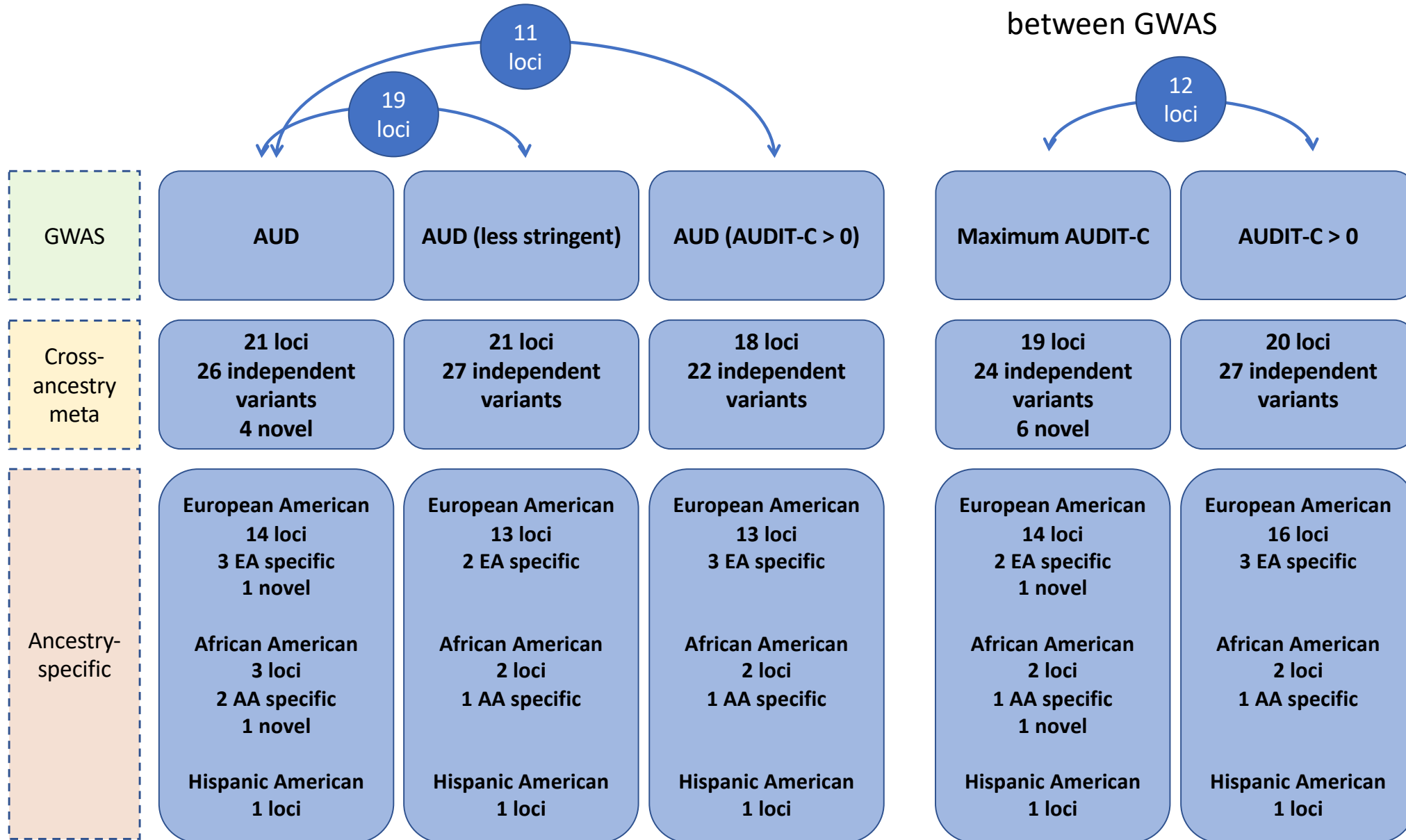
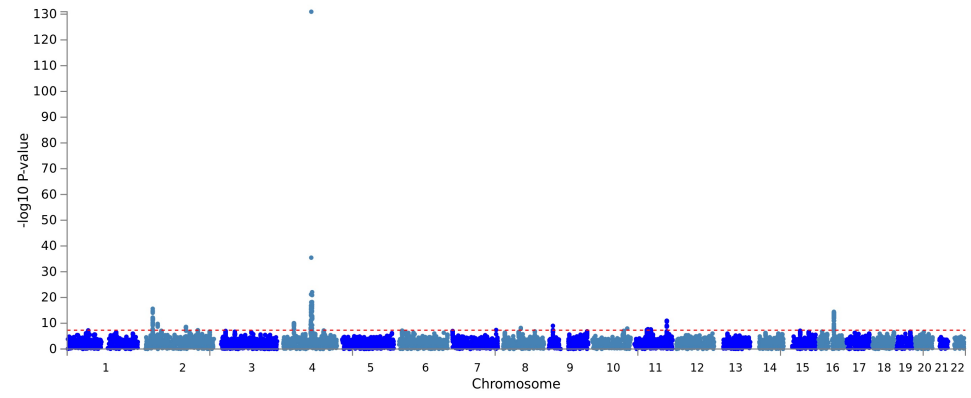Figure S4: Manhattan plots for AUD by ancestry

Figure S5: Locus zoom plots for ancestry-specific variants associated with AUD in European Americans

Figure S6: Locus zoom plots for ancestry-specific variants associated with AUD in African Americans
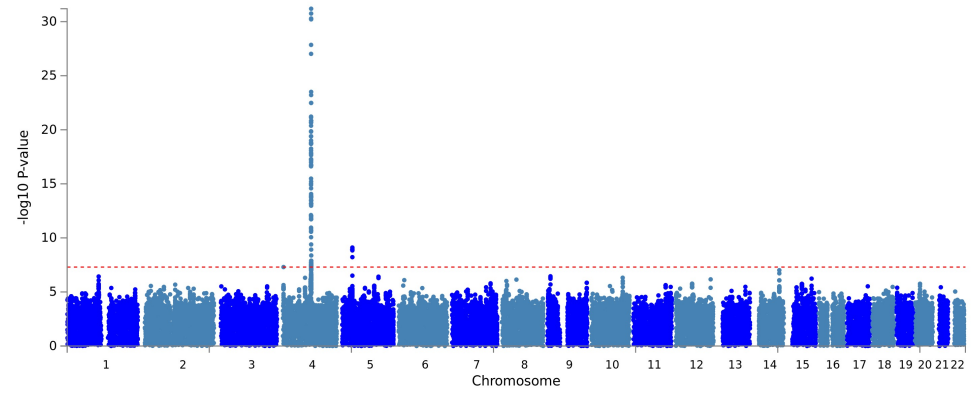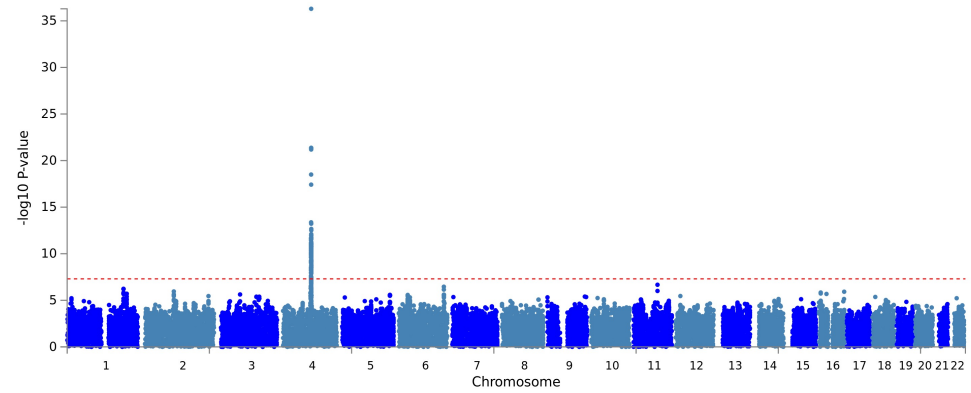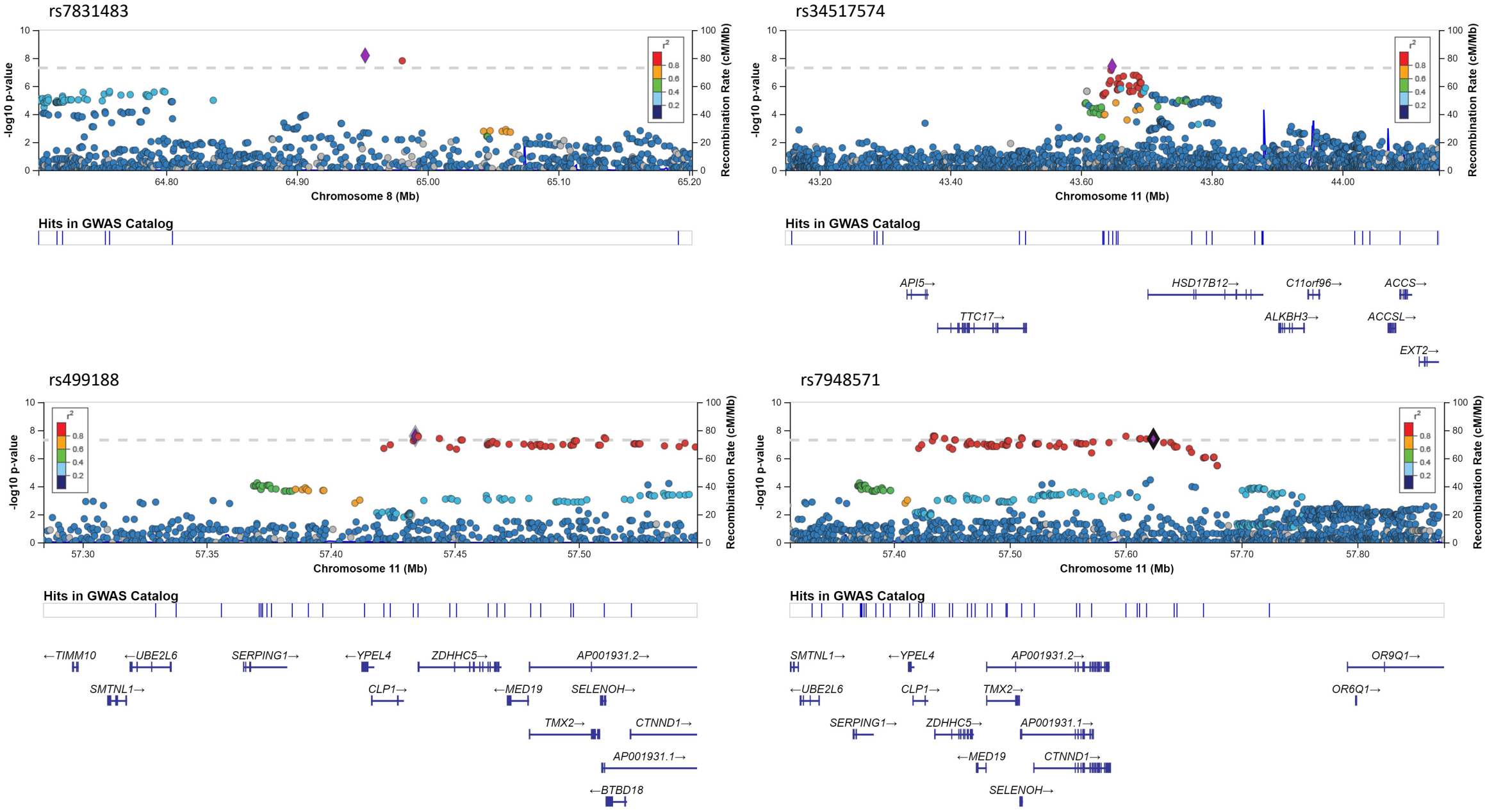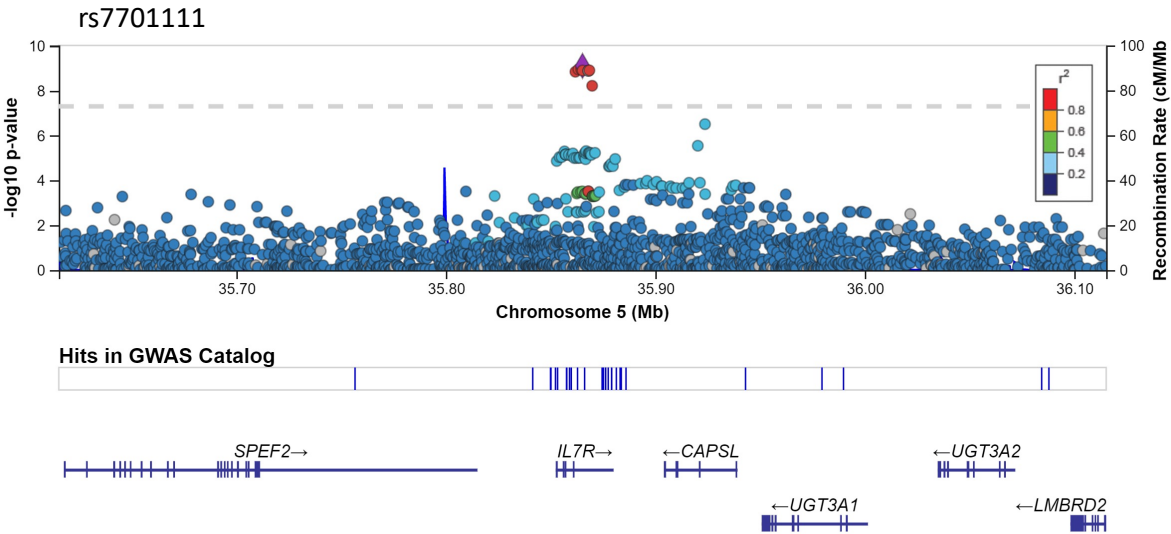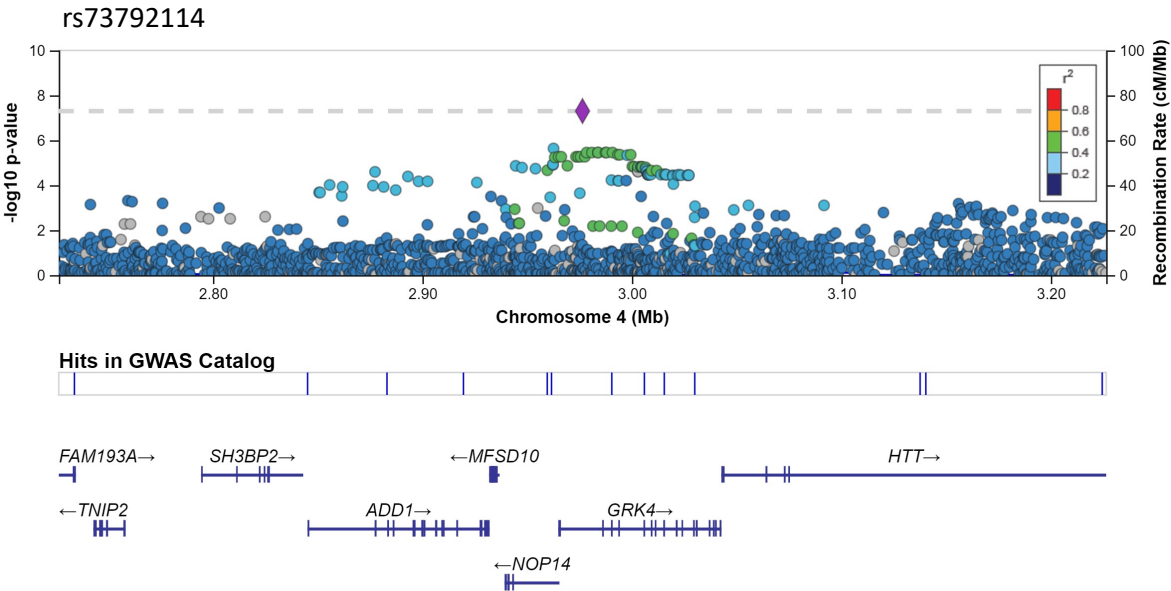
Figure S7: Manhattan plots for AUDIT-C by ancestry

European American

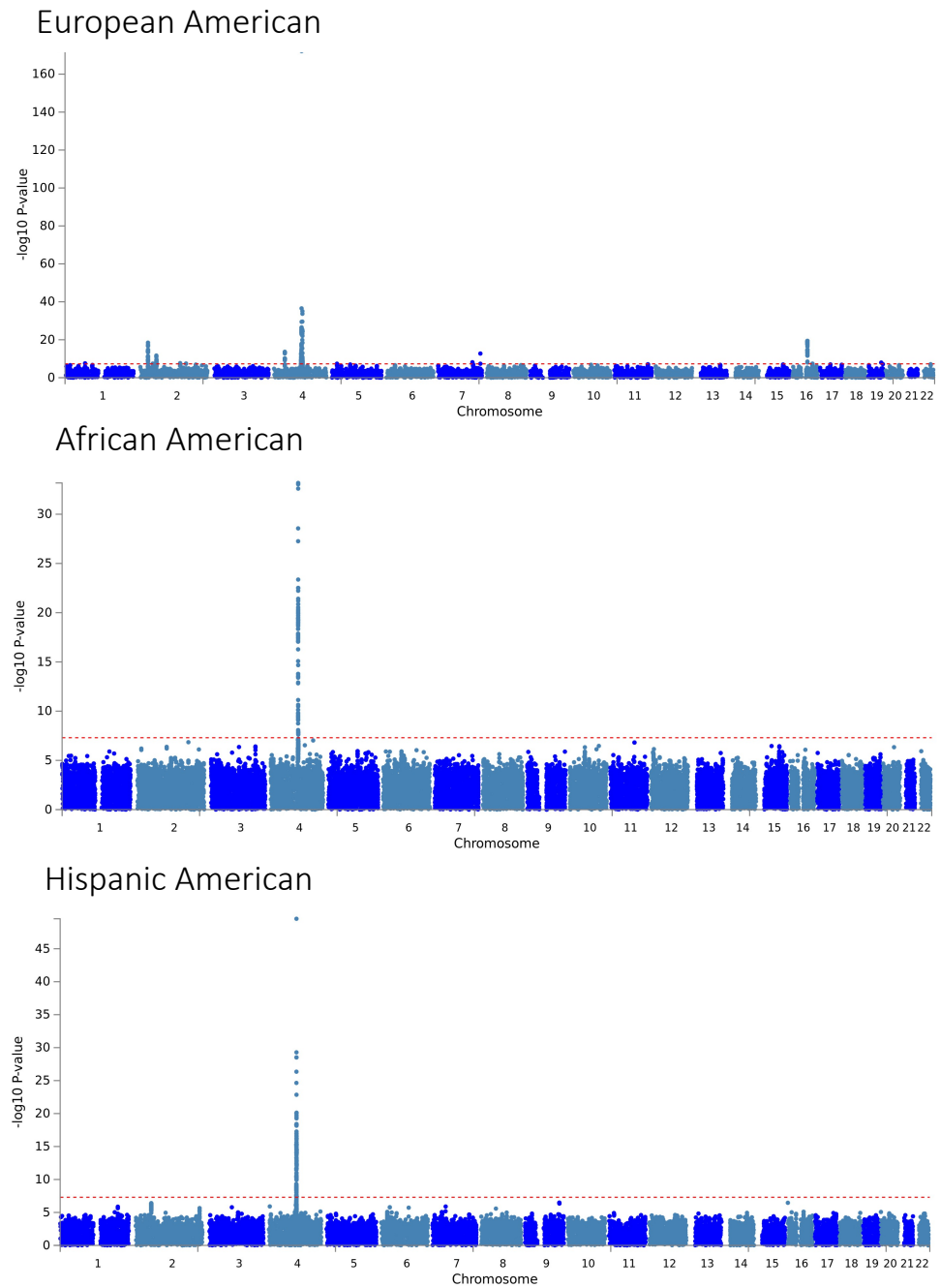African American

Hispanic American

Figure S8: Locus zoom plots for ancestry-specific variants associated with AUDIT-C in European Americans
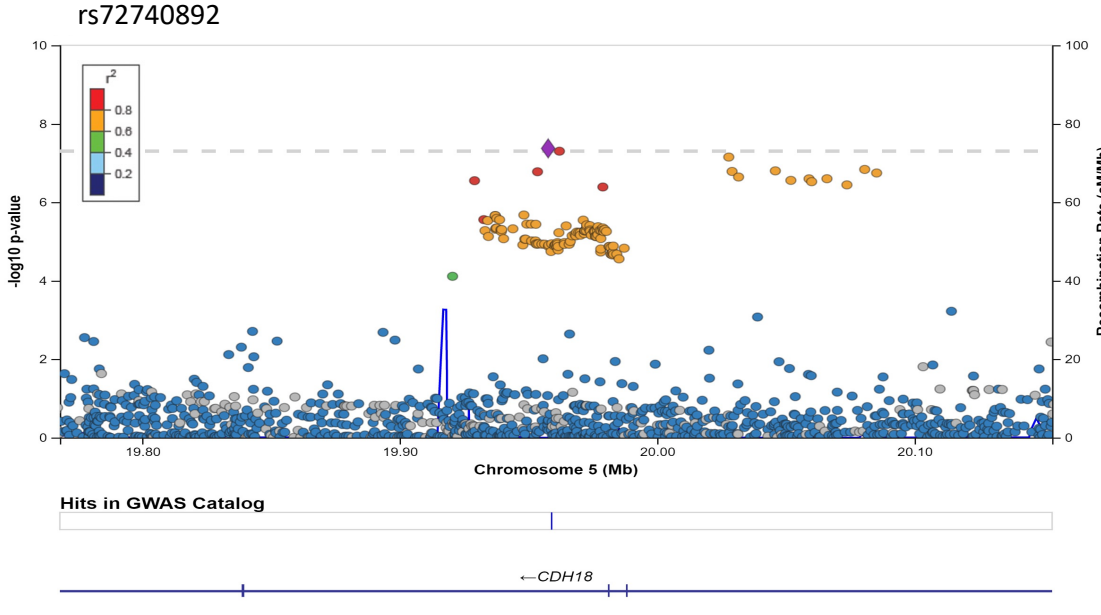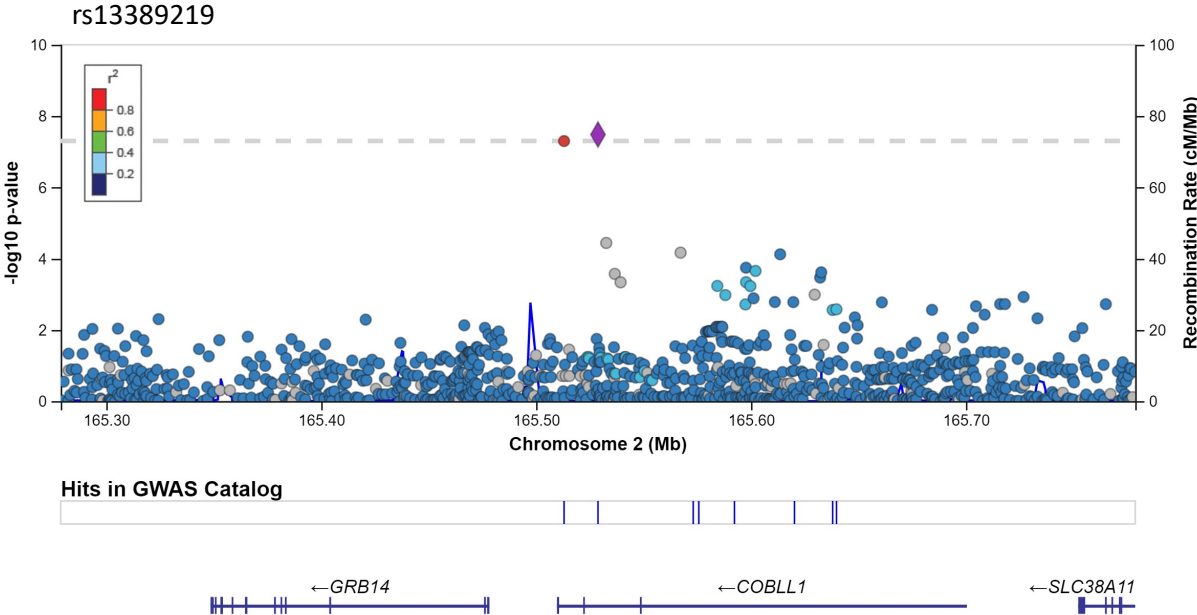
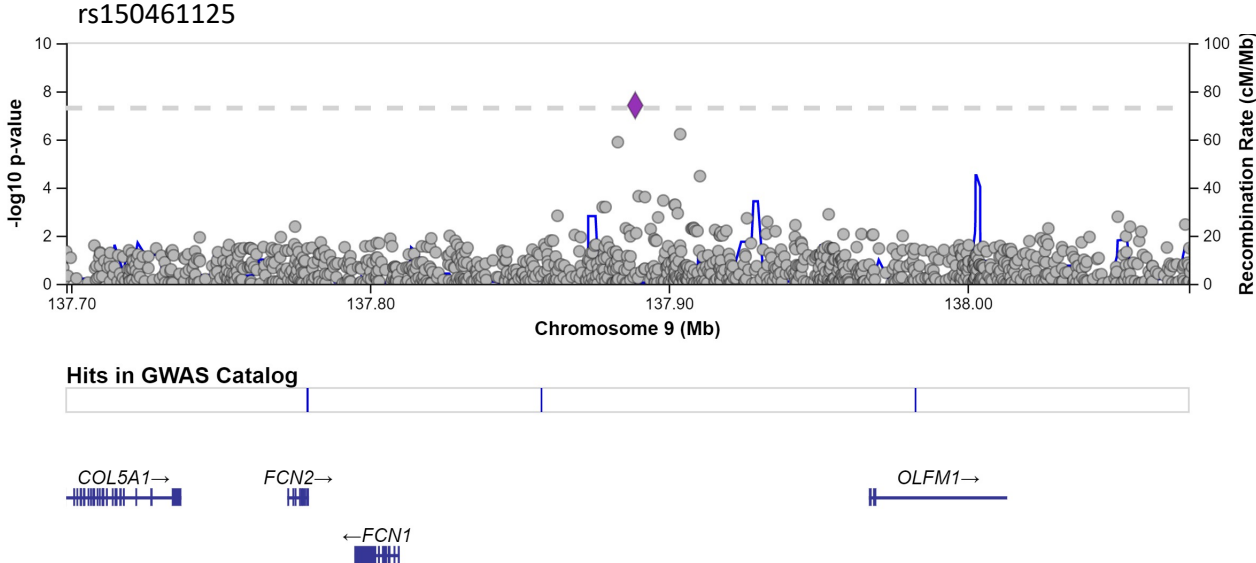# Figure S9: Locus zoom plots for ancestry-specific variants associated with AUDIT-C in African Americans

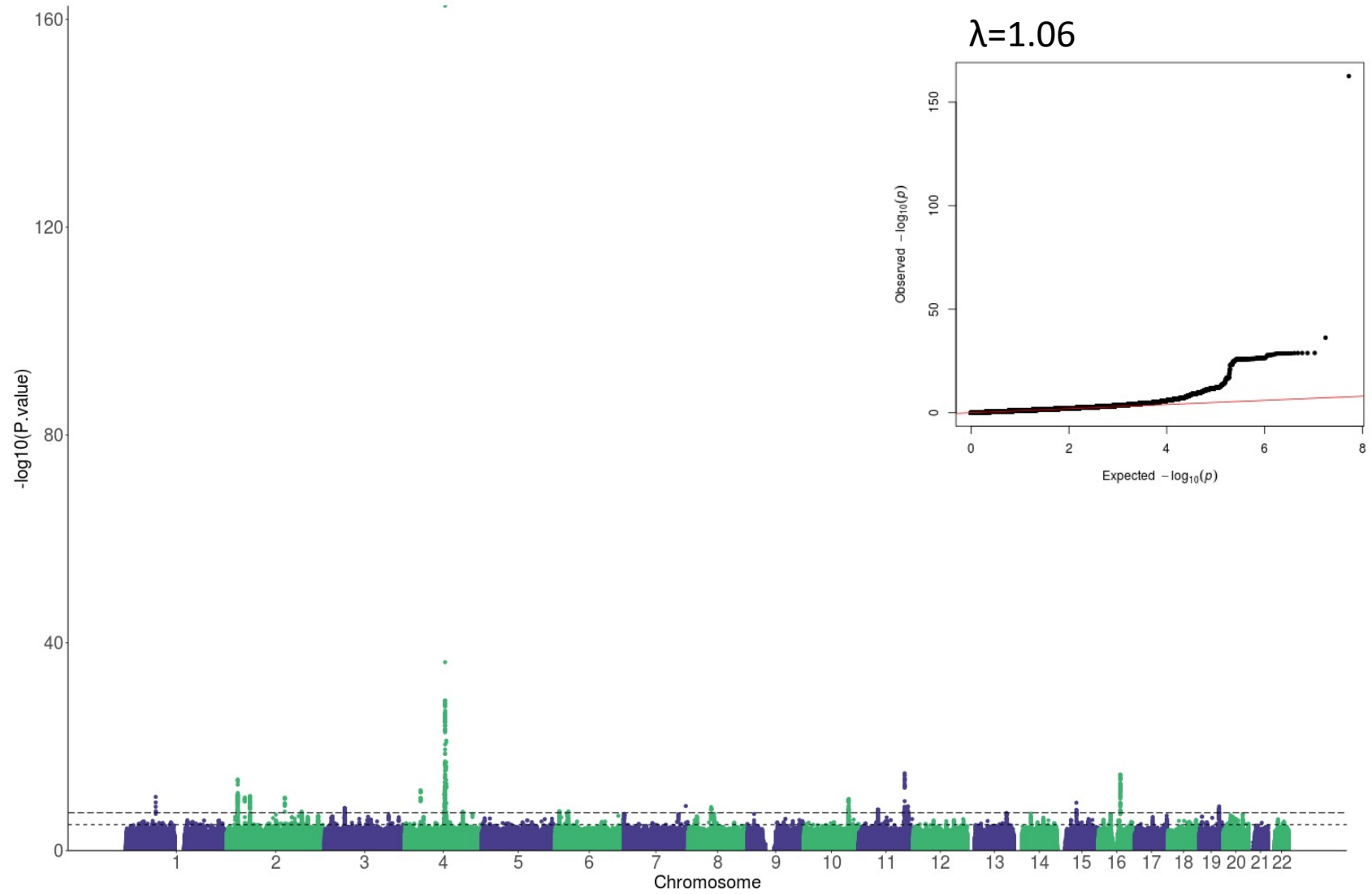# Figure S10: Manhattan plot for AUD (Less Stringent)

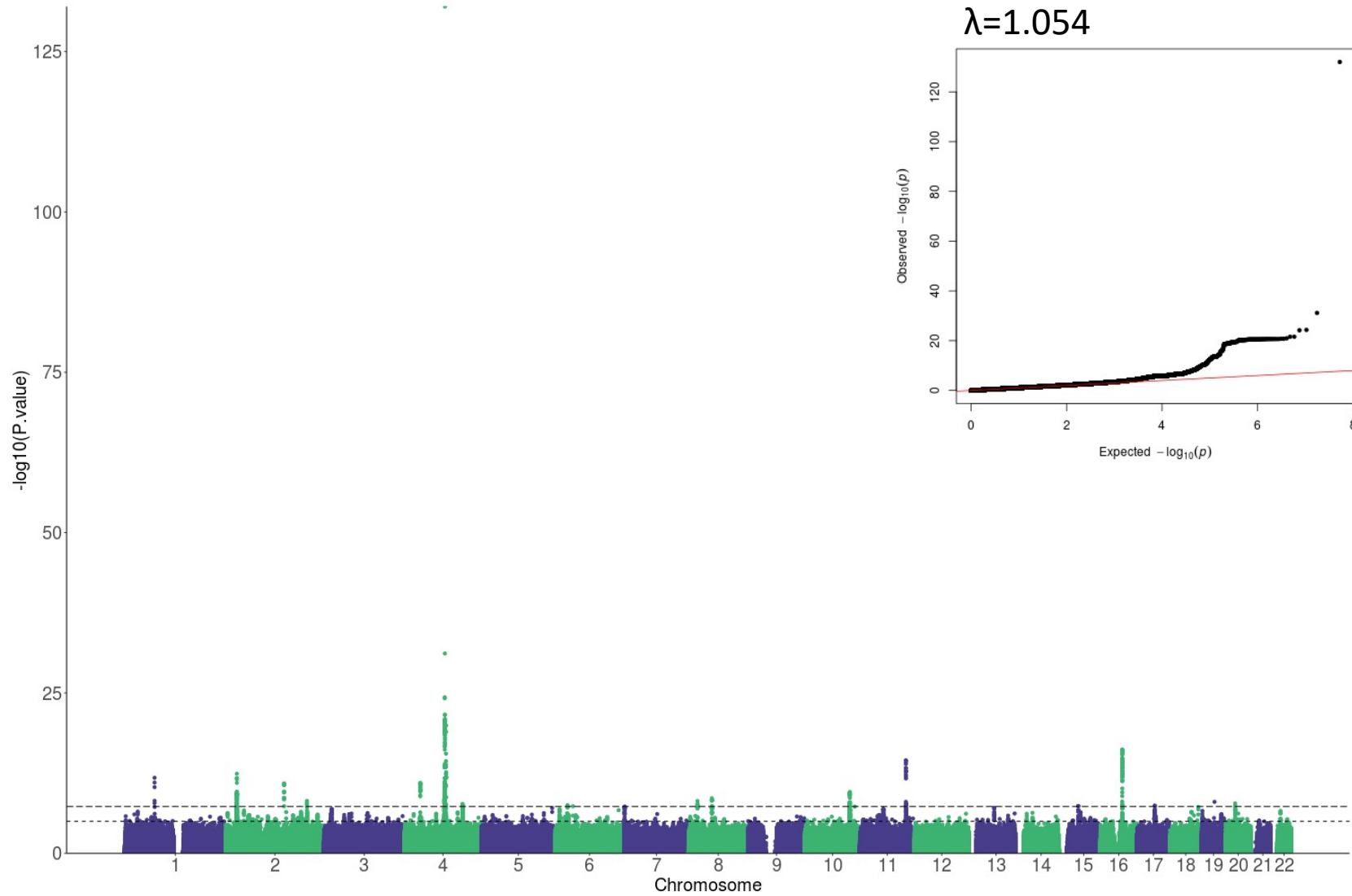# Figure S11: Manhattan plot for AUD (Stringent, AUDIT-C>0)
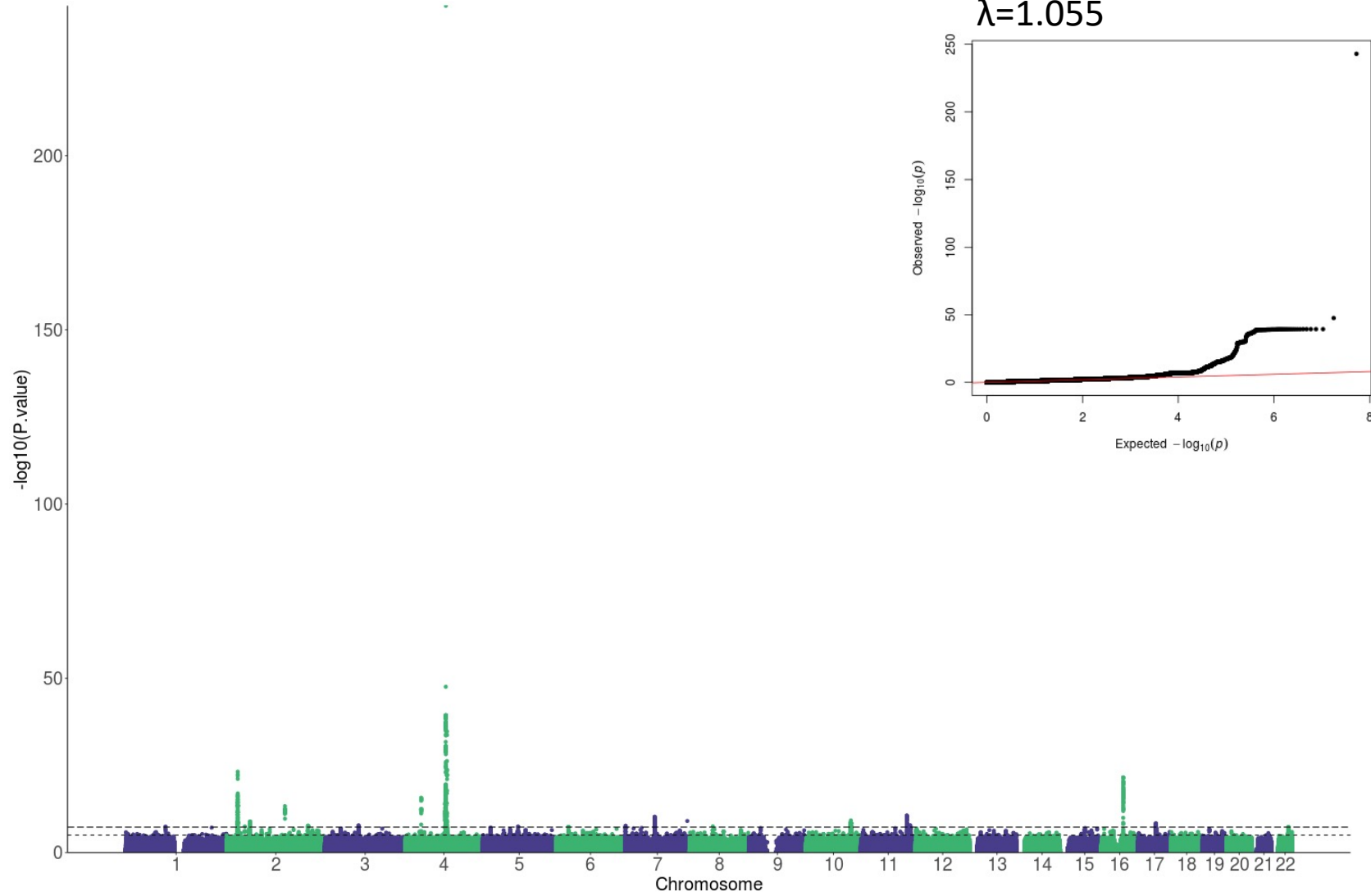
Figure S12: Manhattan plot for AUDIT-C>0

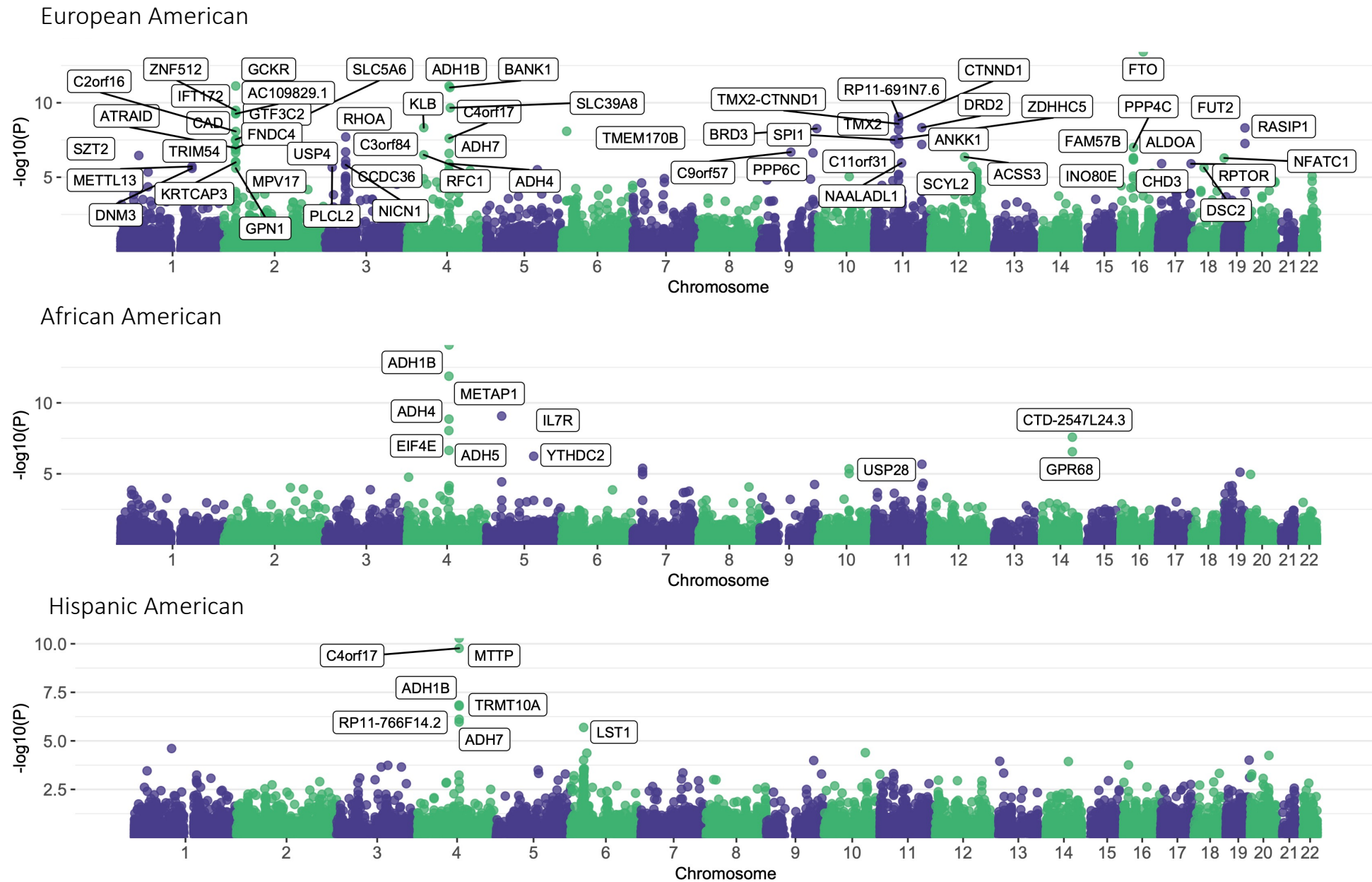Figure S13: Gene-based association analyses for AUD
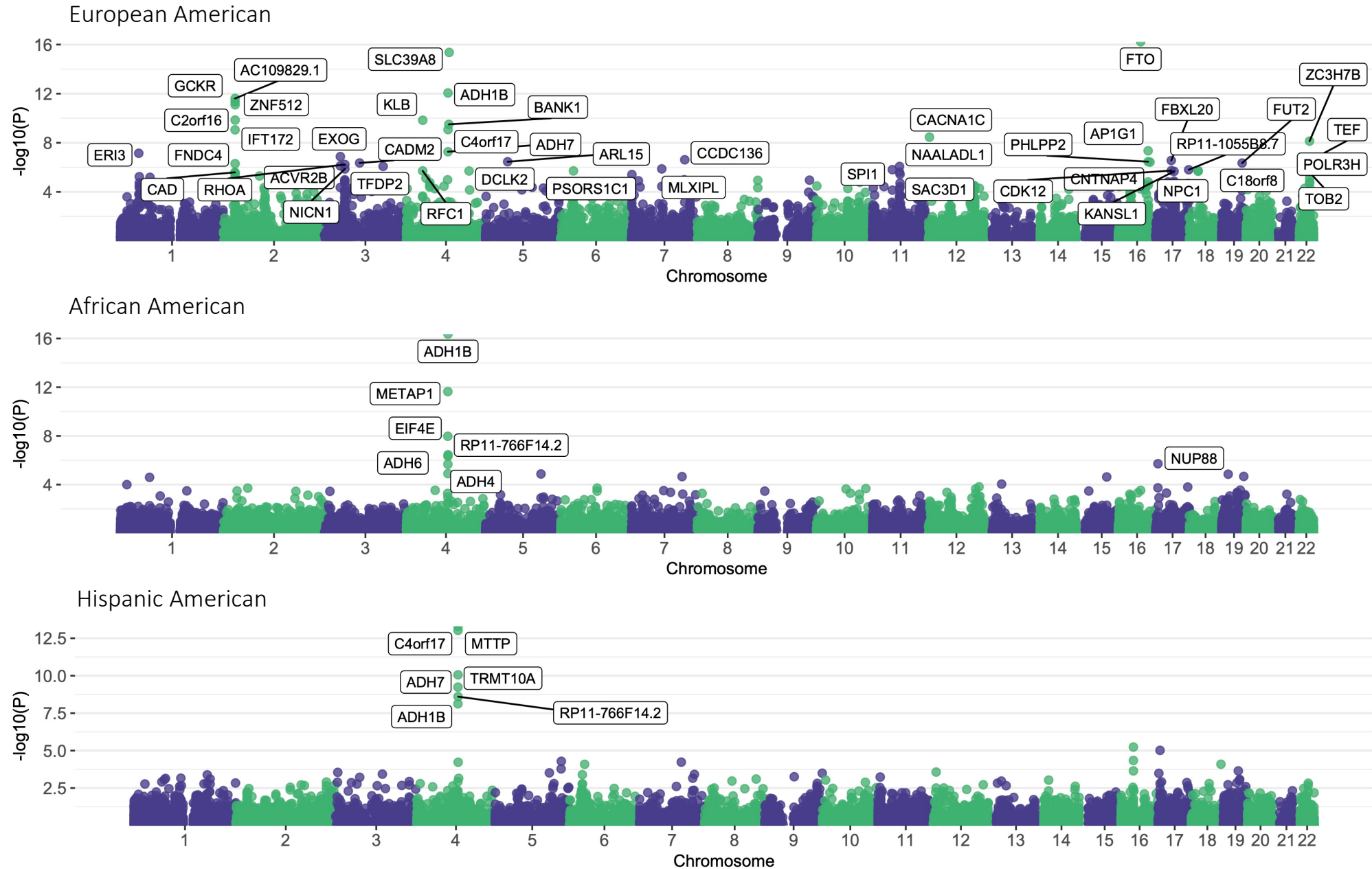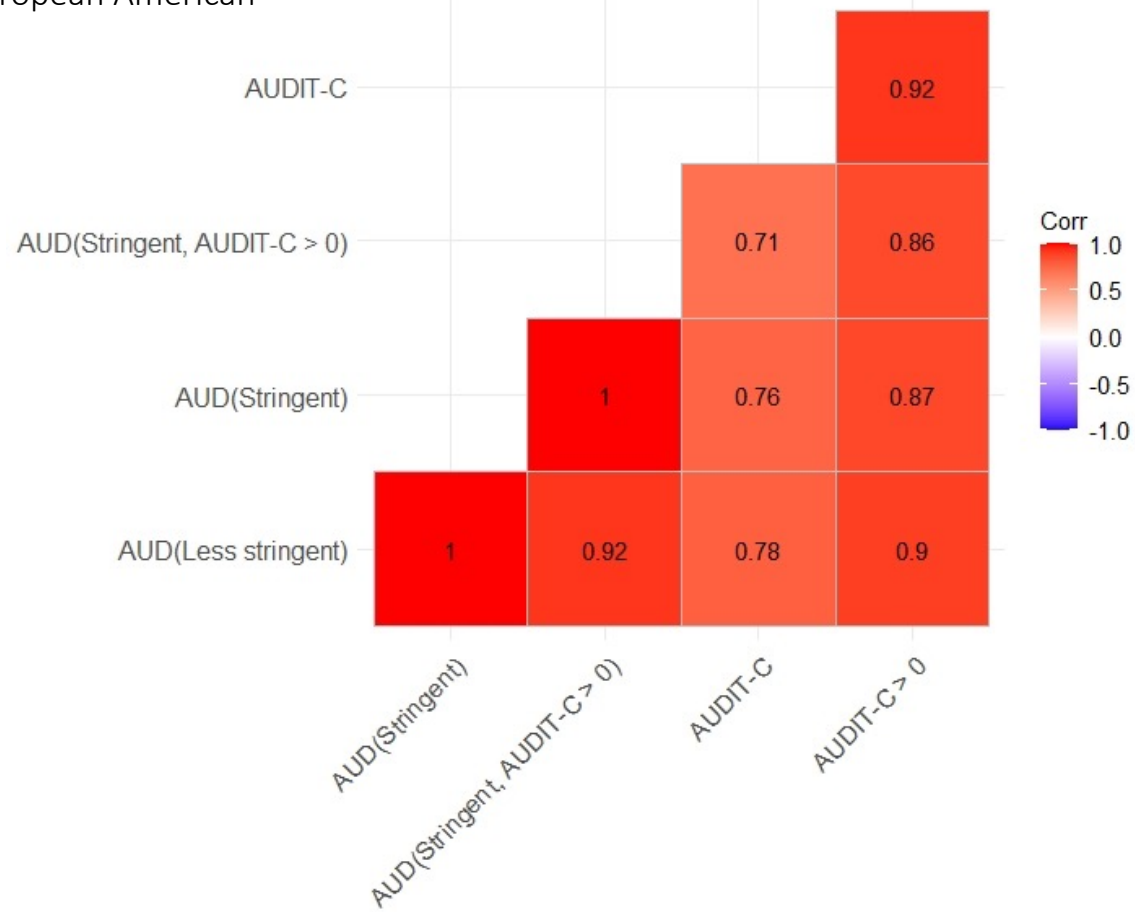
Figure S14: Gene-based association analyses for AUDIT-C
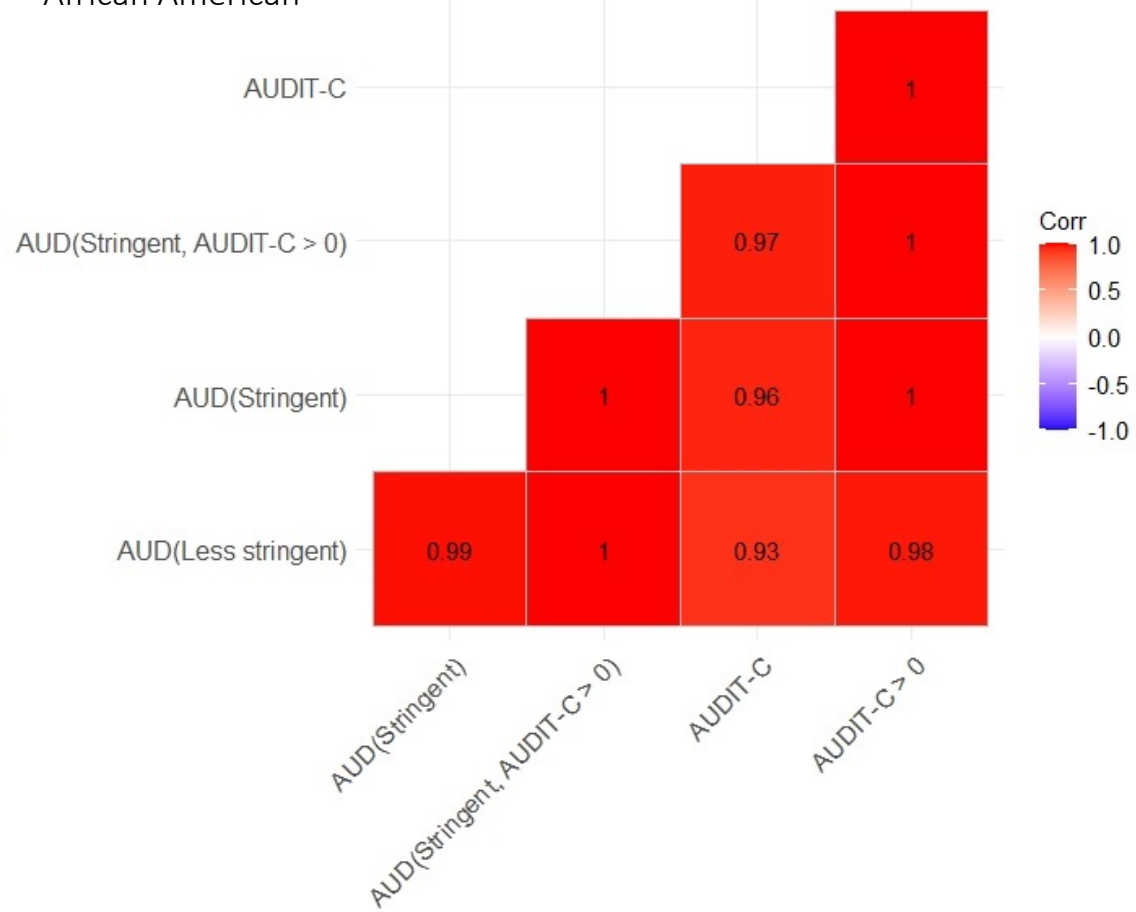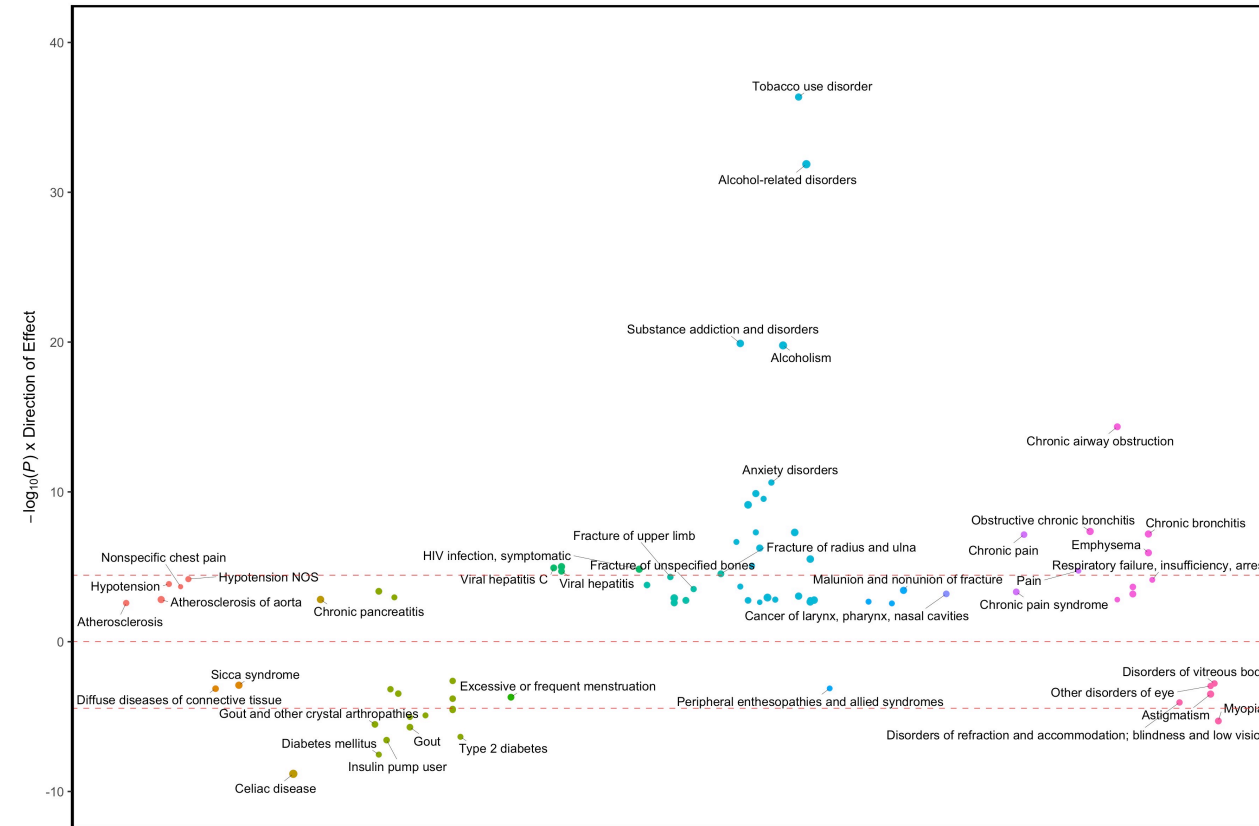
Figure S15: Genetic correlation between phenotypes

Figure S16: PheWAS in European ancestry individuals in BioVU