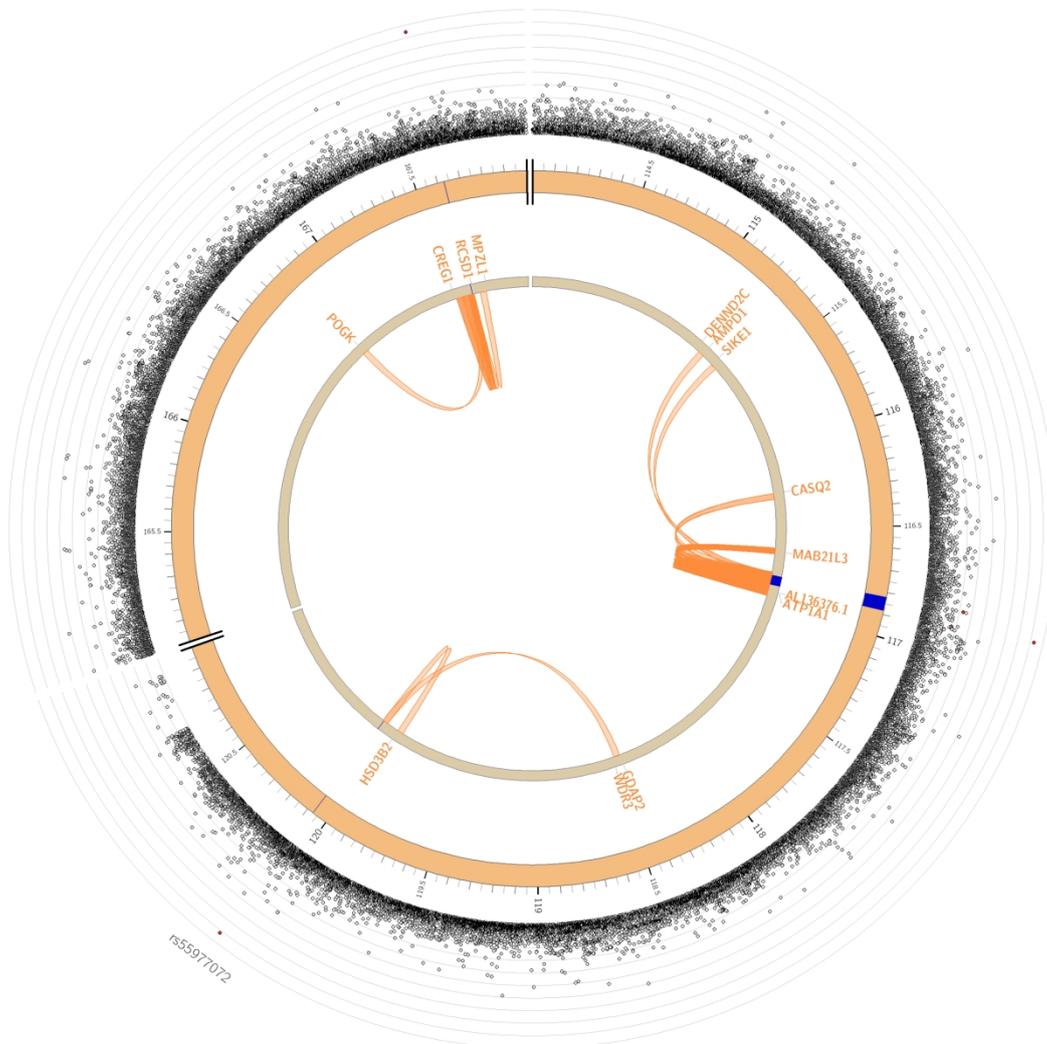


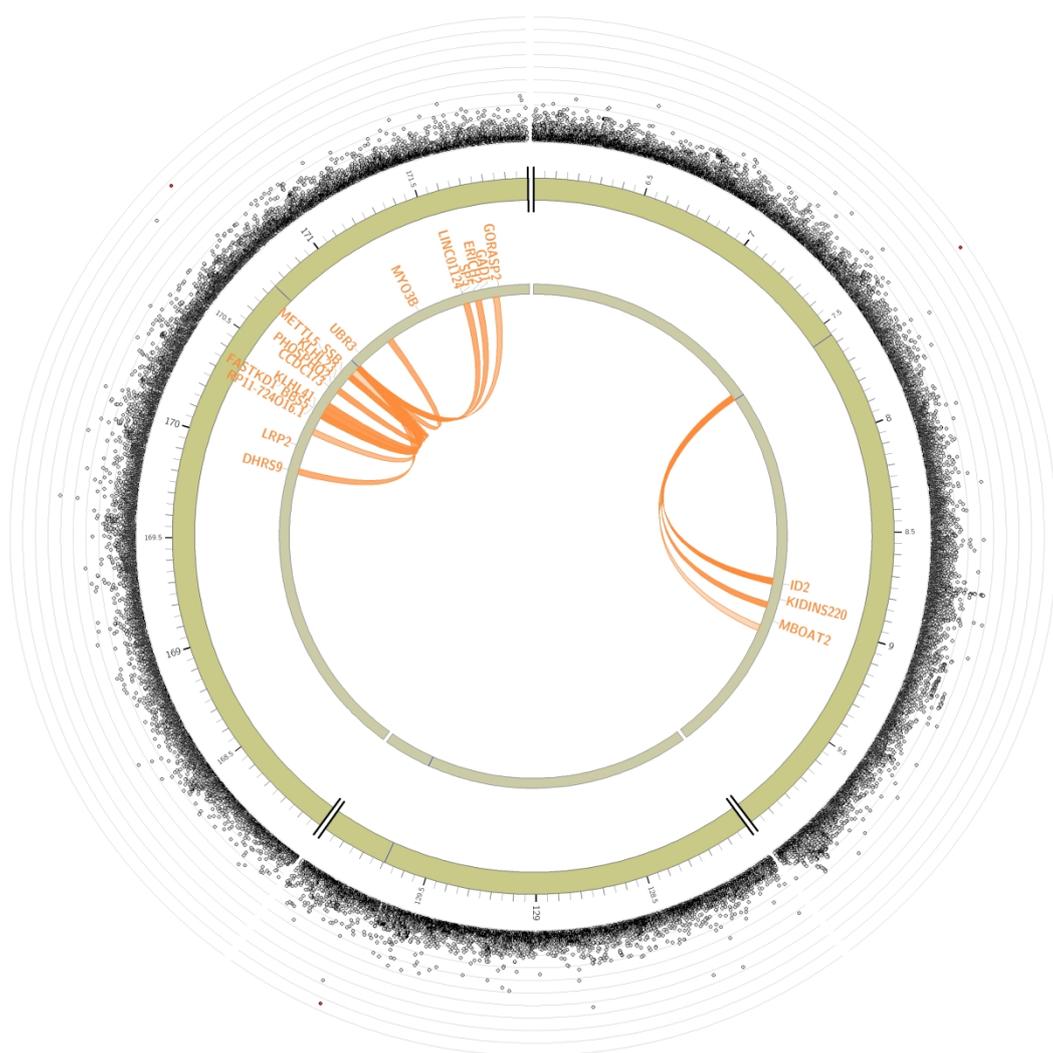
Supplementary Data 2

Circos plots of chromatin interactions and eQTLs for each chromosome harboring VD risk loci based on the Cross-ancestry meta-analysis (Stage 2). Outer-most layer: Manhattan plot displaying lead SNPs, where additional independent significant SNPs in loci are colored according to linkage disequilibrium (r^2 ; red [$r^2 > 0.8$], orange [$r^2 > 0.6$], green [$r^2 > 0.4$], blue [$r^2 > 0.2$], grey [$r^2 \leq 0.2$]); $-\log_{10} P$ -values for meta-analysis effect estimates for each SNP is indicated on the y-axis. Second layer: chromosome ring with coordinates and genomic risk loci highlighted in blue. Third layer: chromosome ring showing genes mapped by chromatin interactions (orange), eQTL (green), or both (red).

Chromosome 1



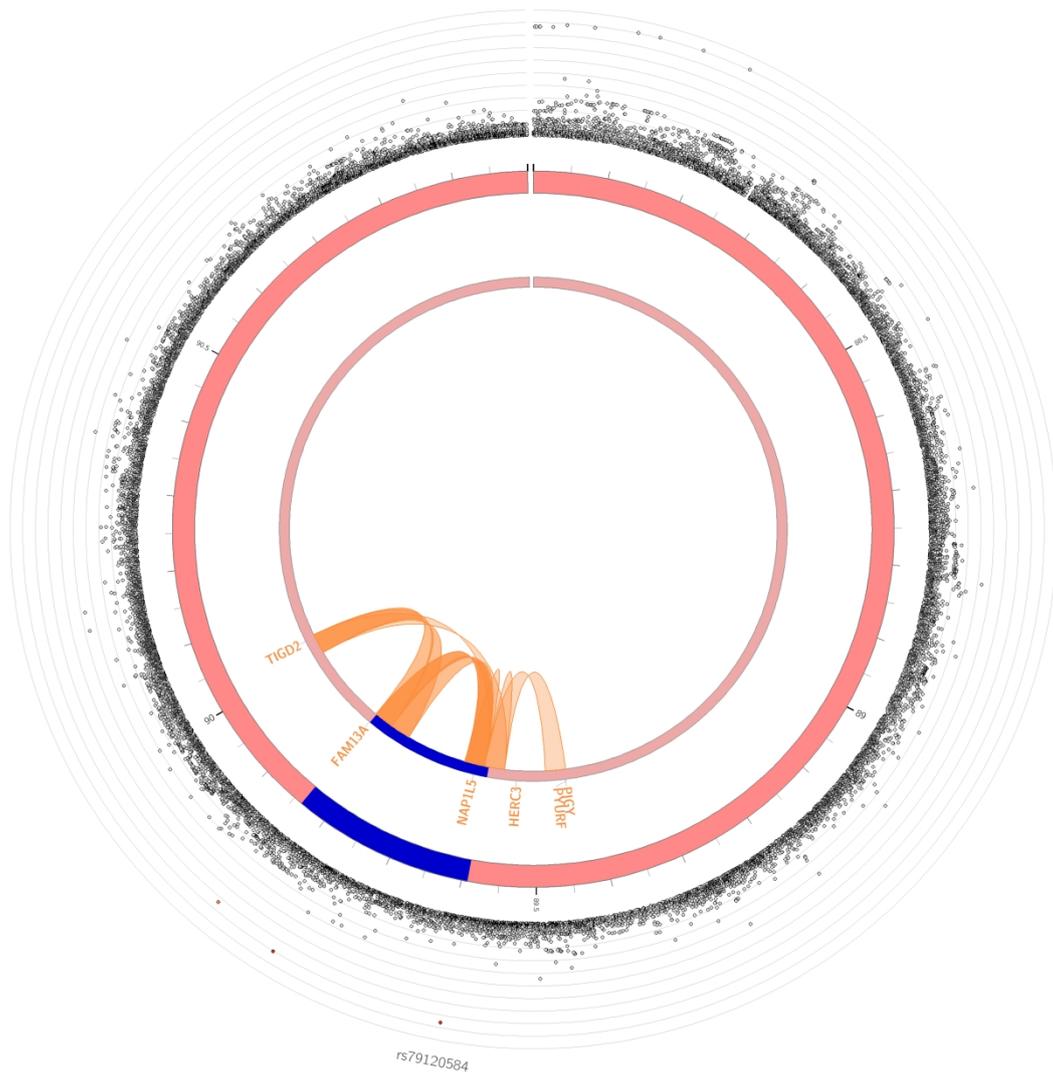
Chromosome 2



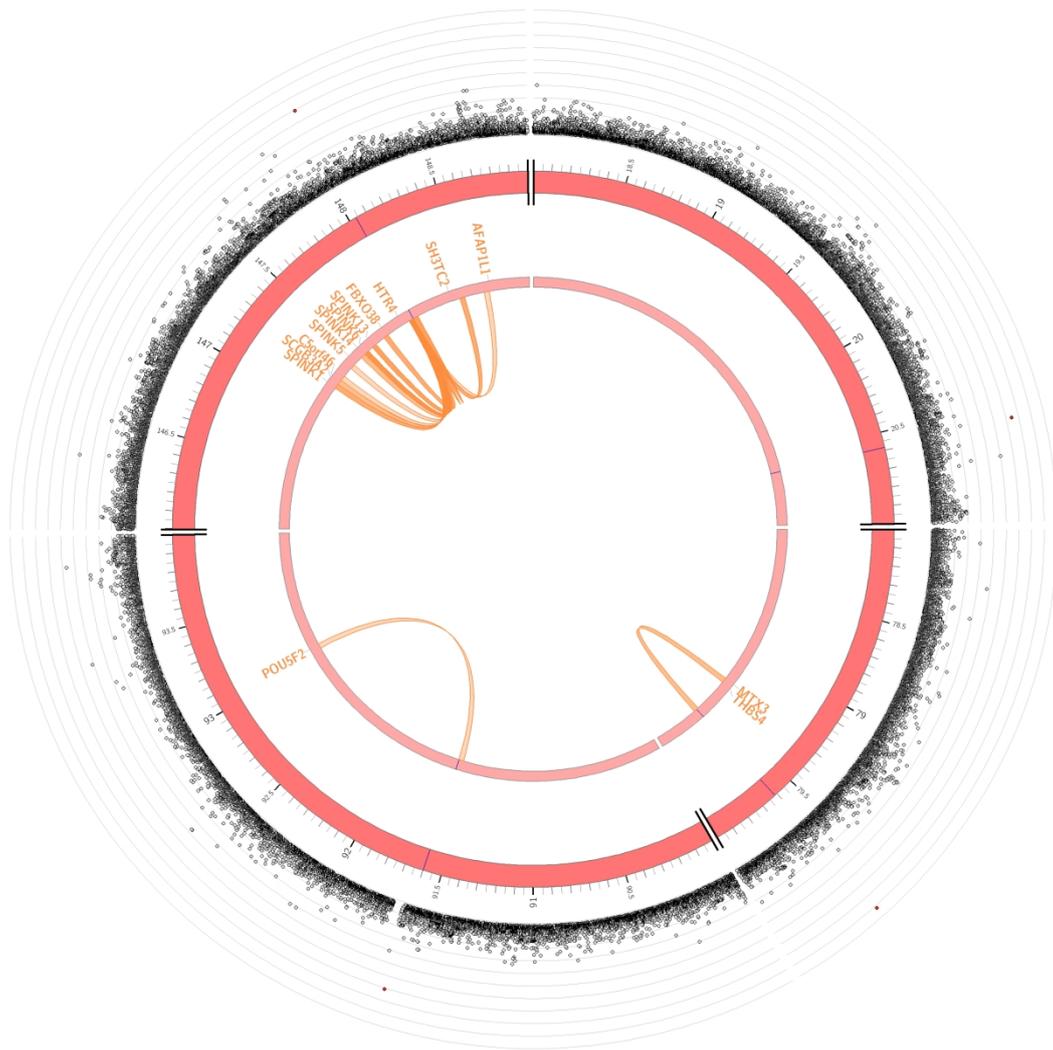
Chromosome 3



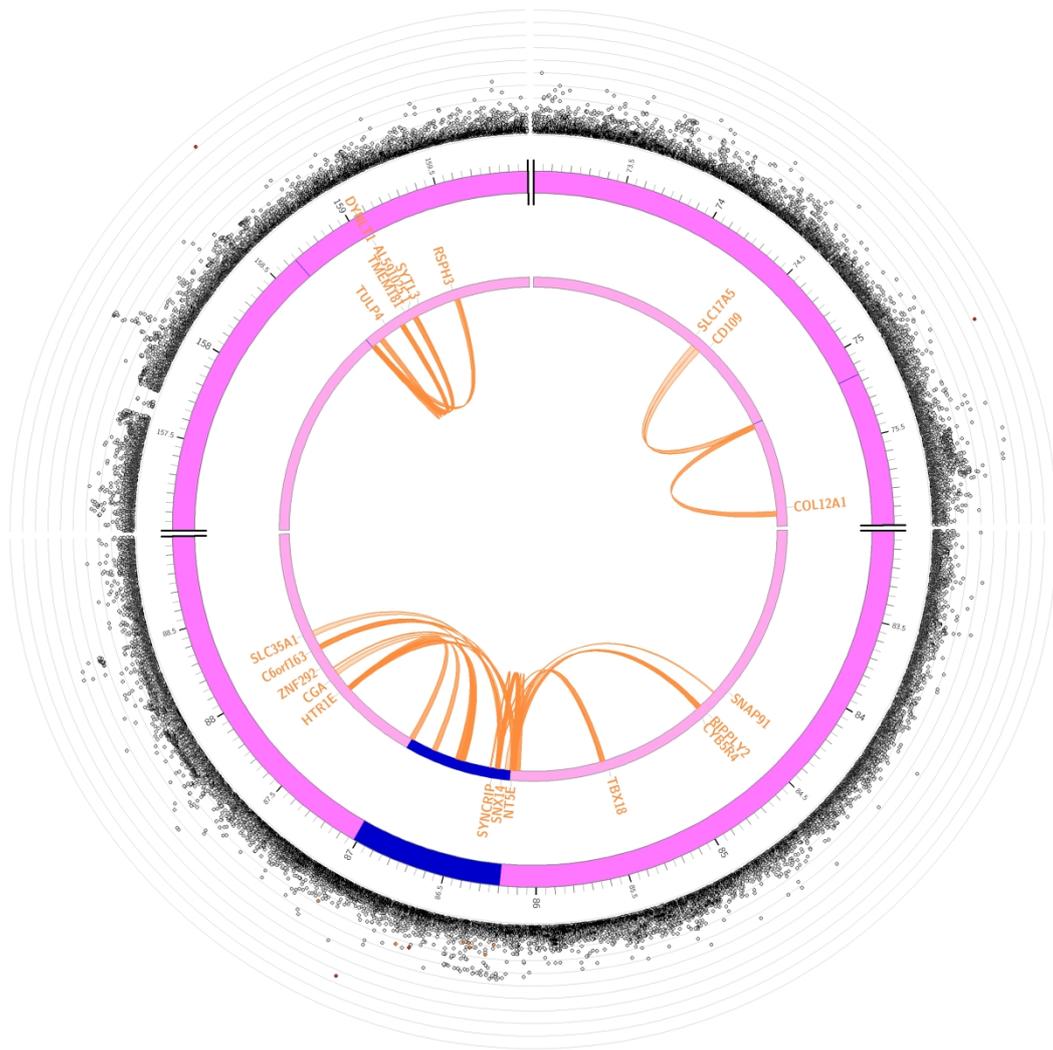
Chromosome 4



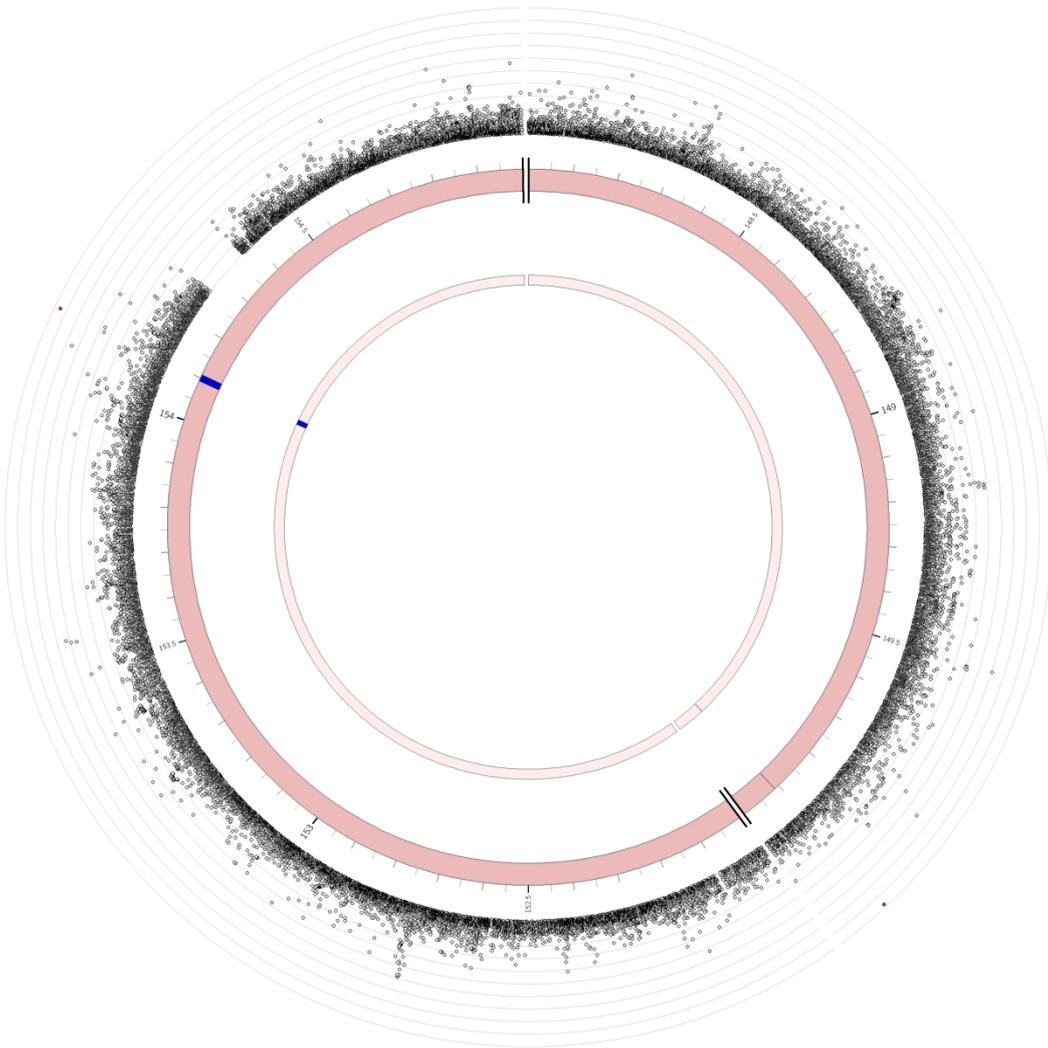
Chromosome 5



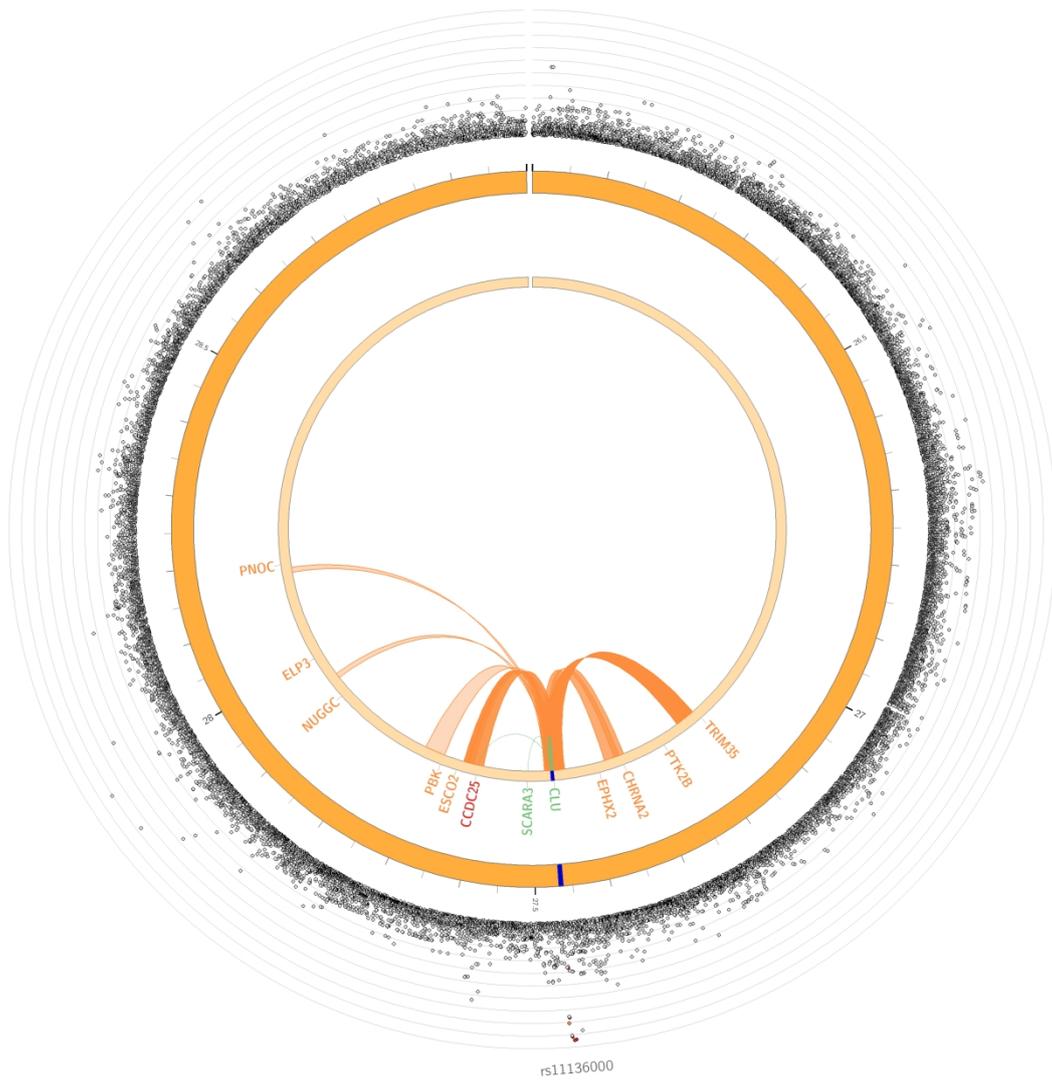
Chromosome 6



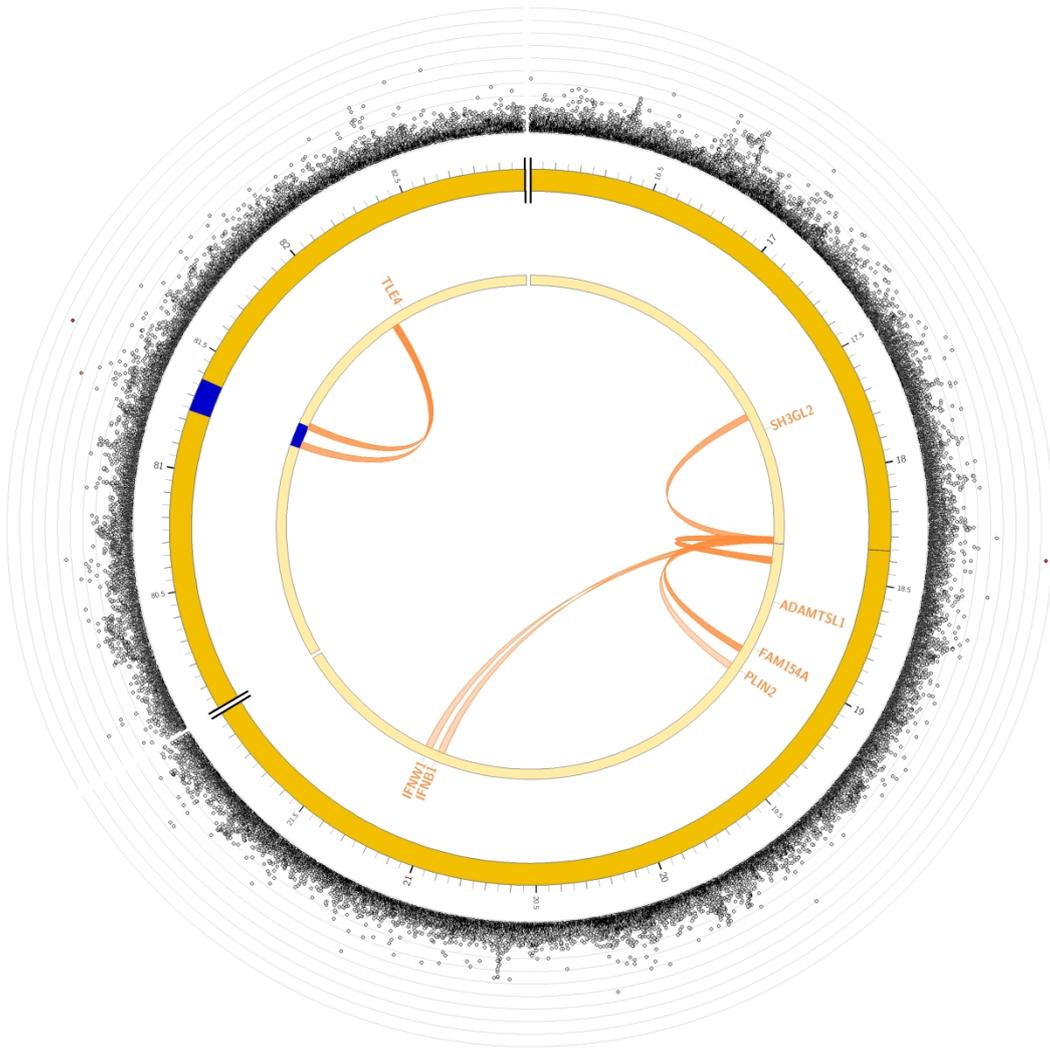
Chromosome 7



Chromosome 8



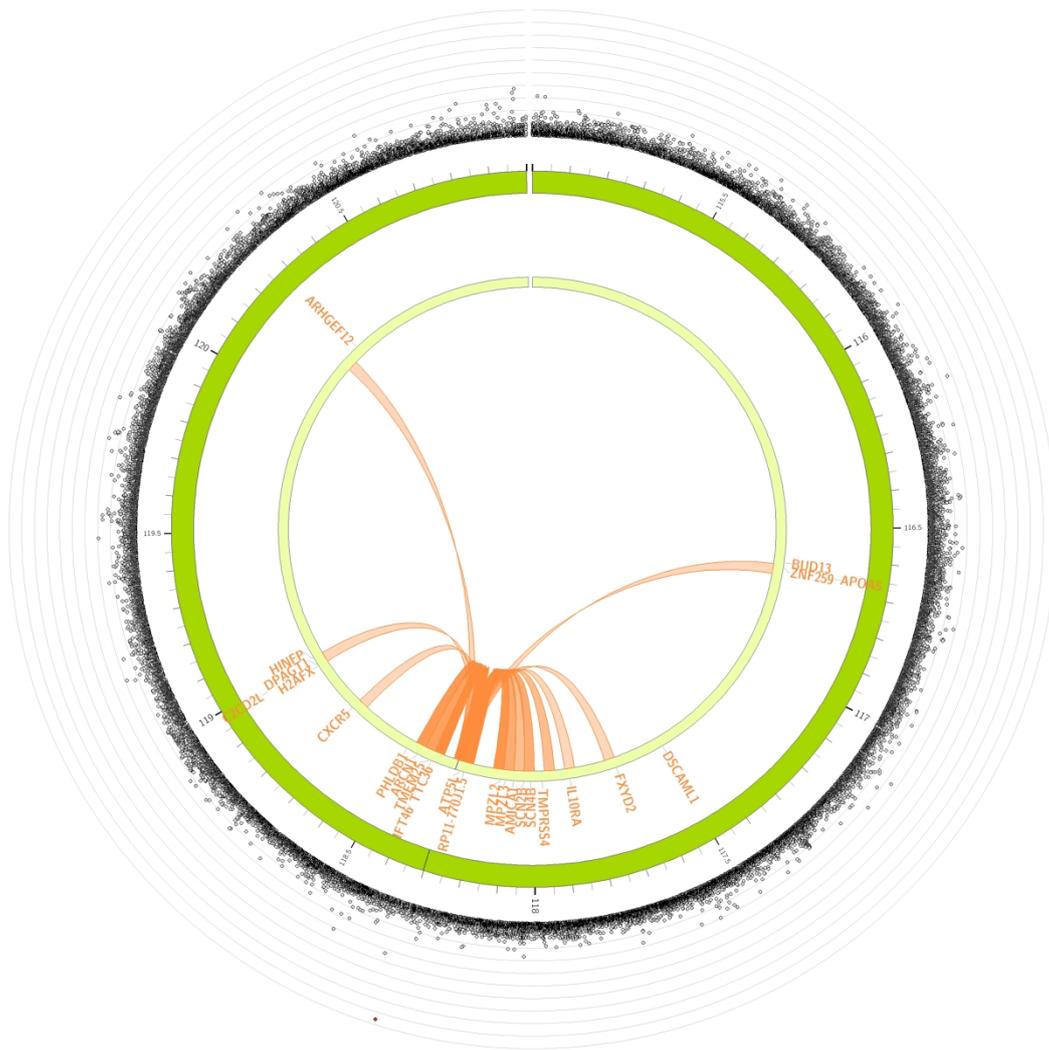
Chromosome 9



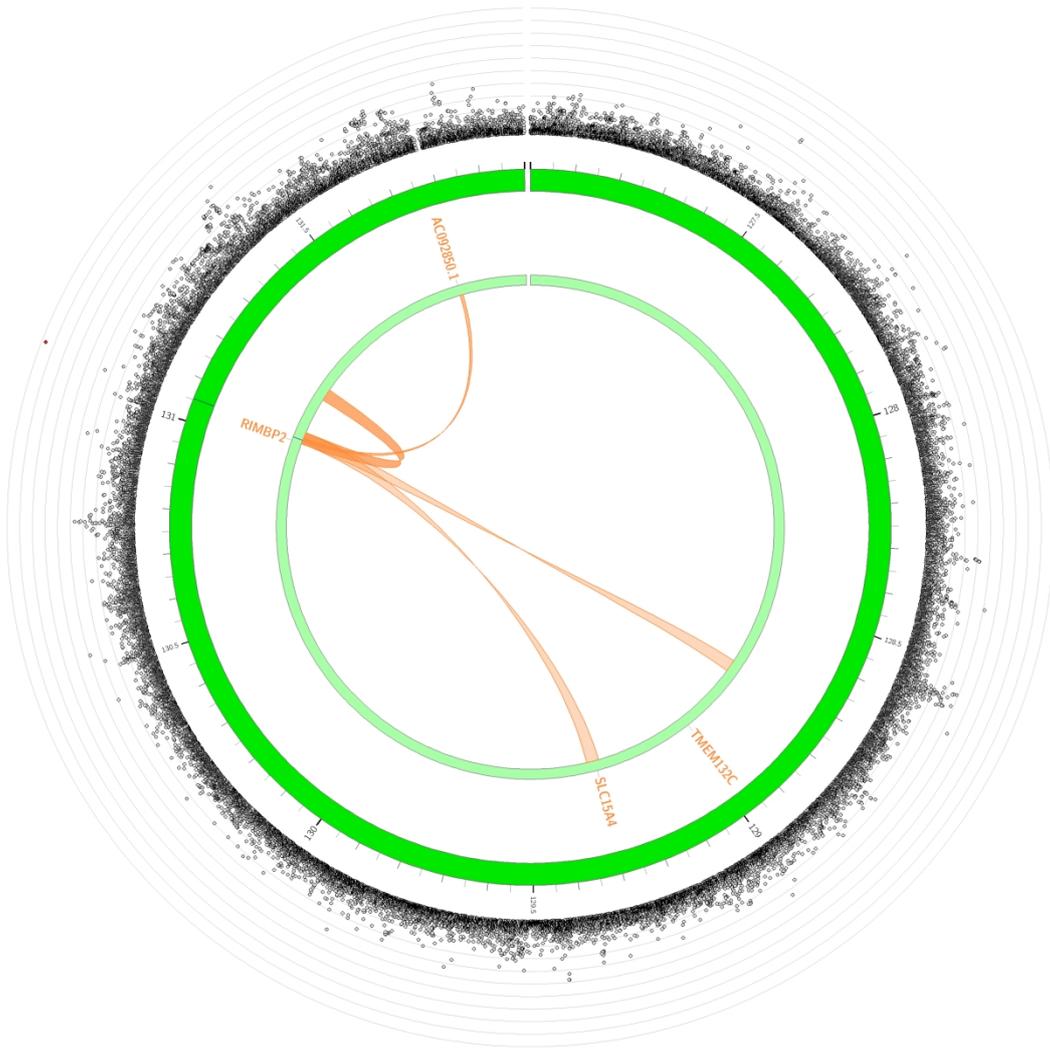
Chromosome 10



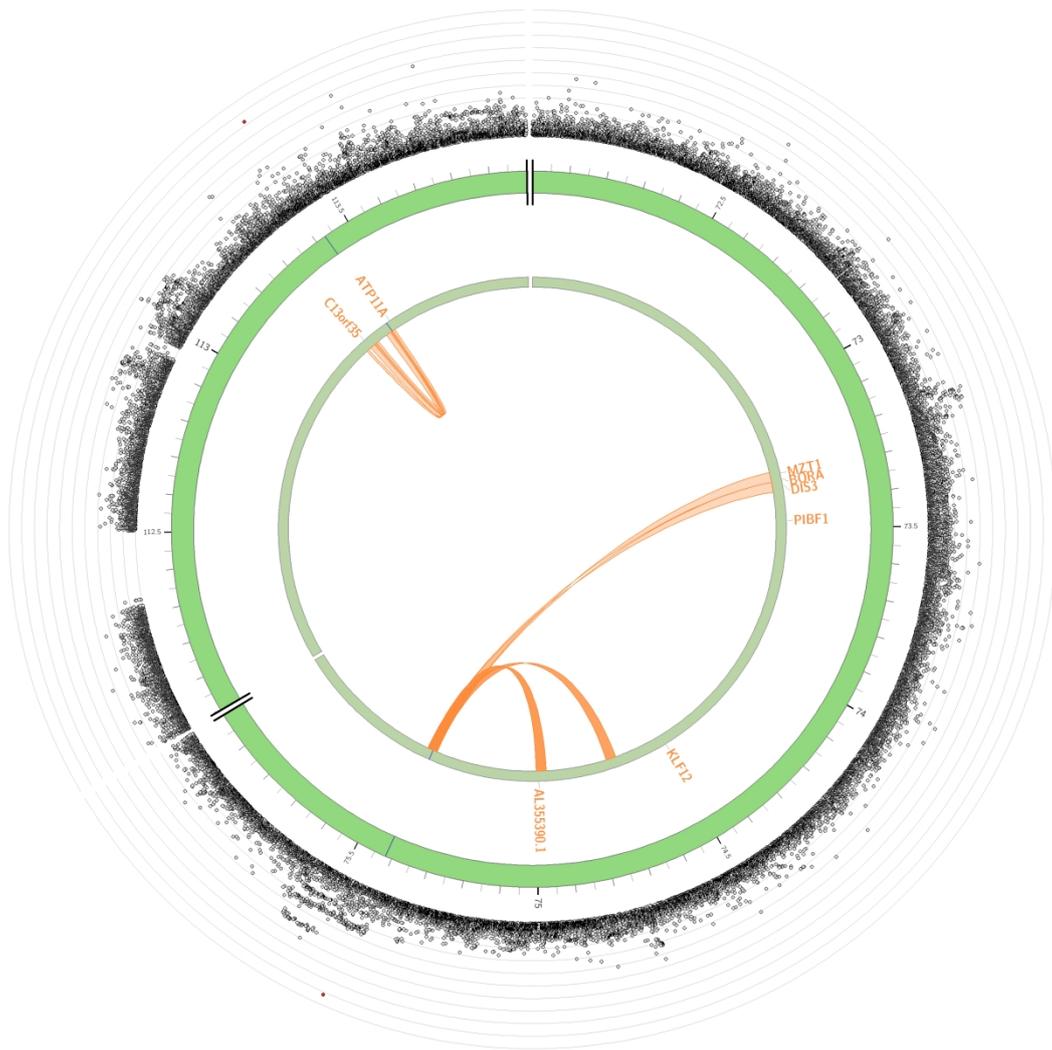
Chromosome 11



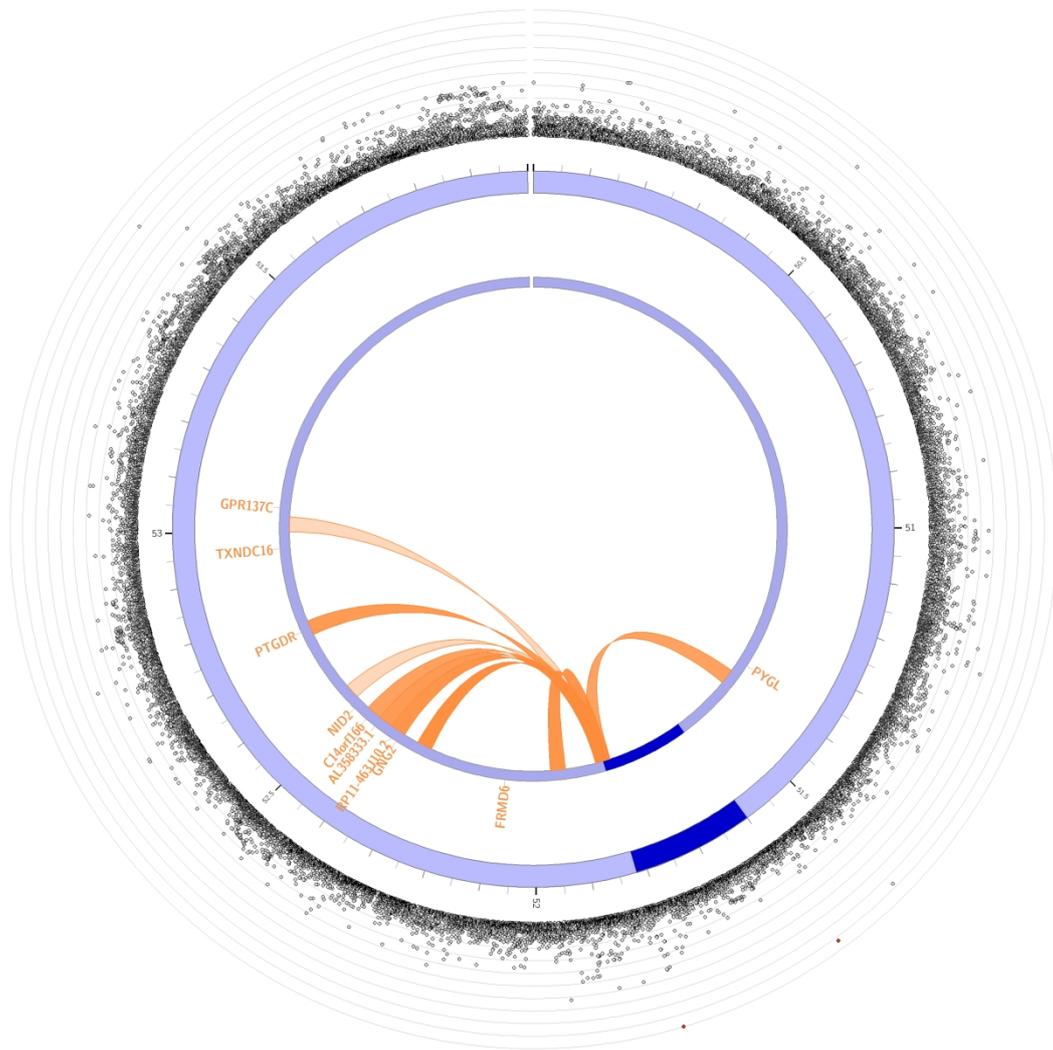
Chromosome 12



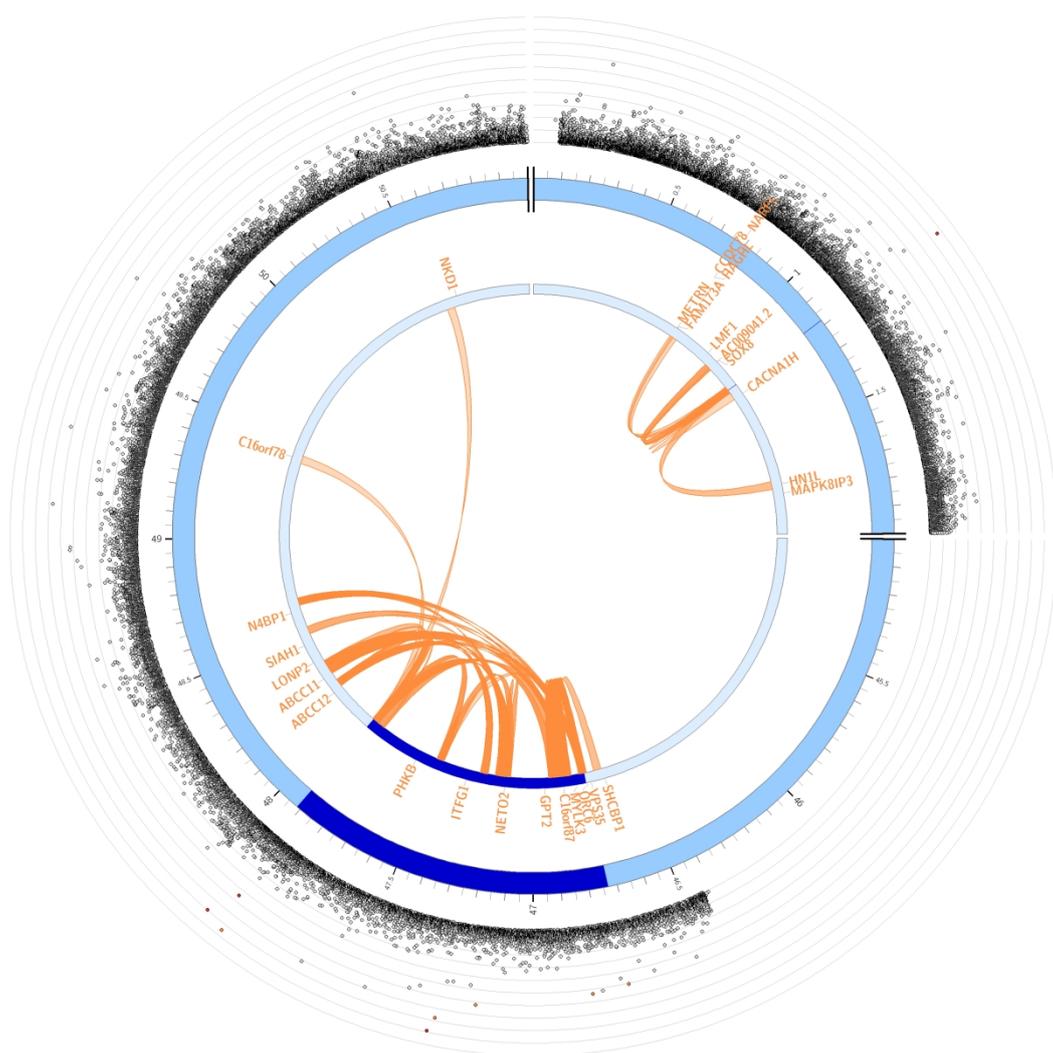
Chromosome 13



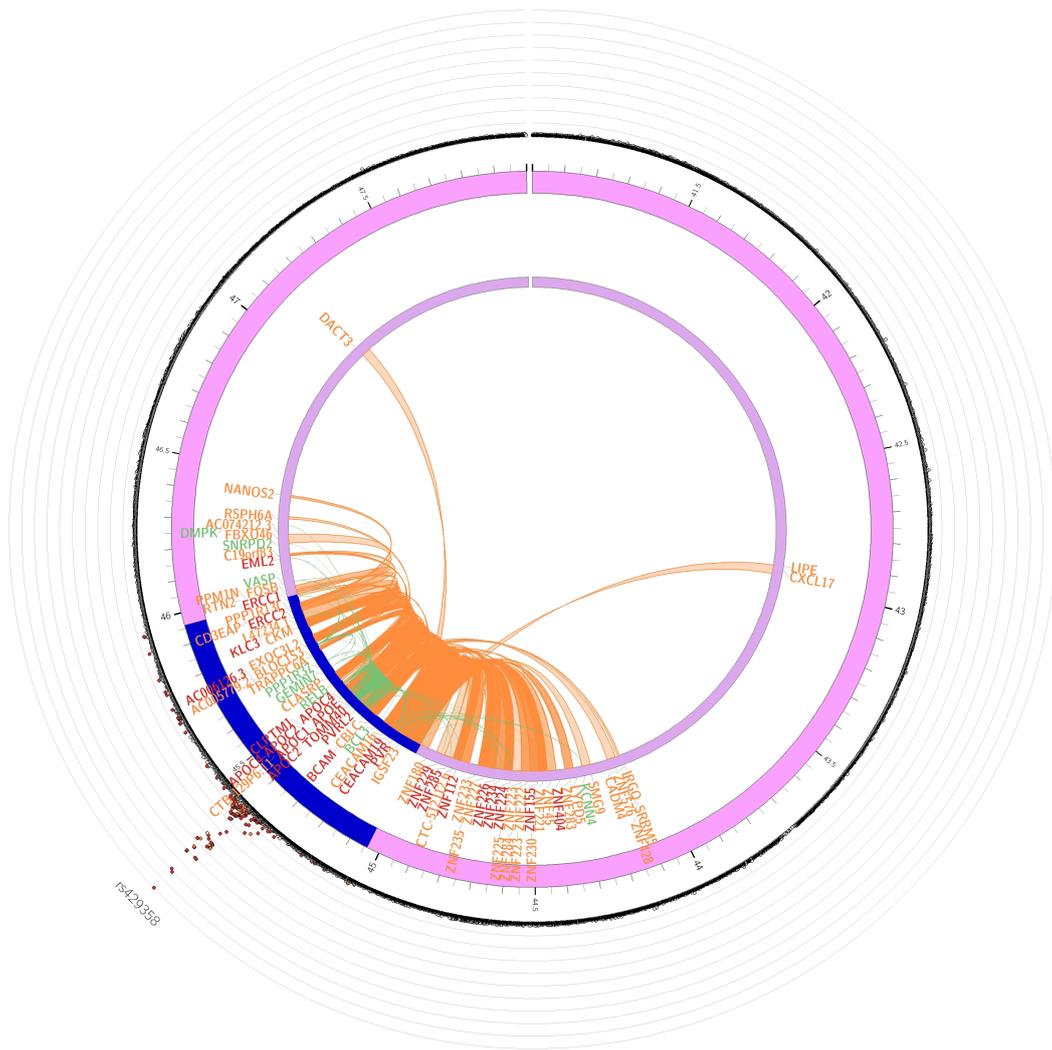
Chromosome 14



Chromosome 16



Chromosome 19



Chromosome 22

