Supplemental Figures

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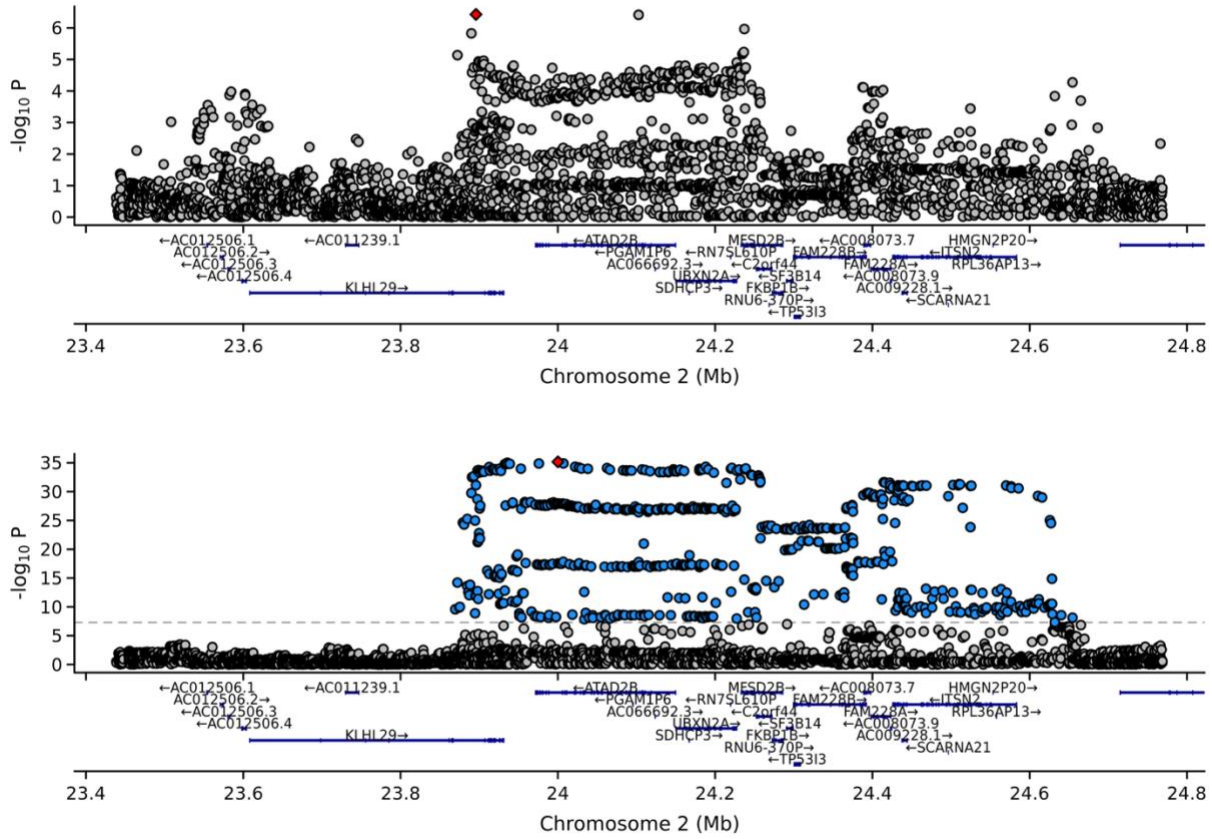


Figure S1 – Significant Locus on Chr2

Locus 227 on chromosome 2, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

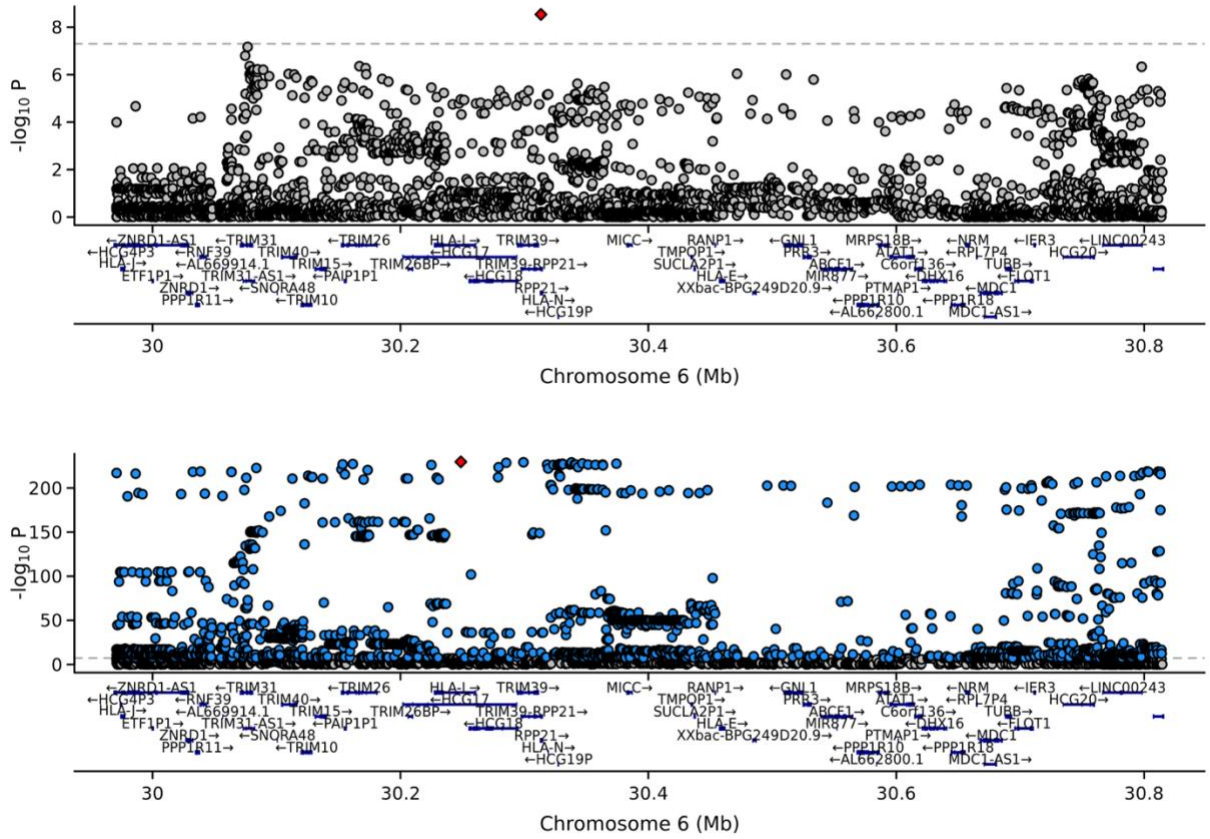


Figure S2 – Significant Locus on Chr6

Locus 956 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

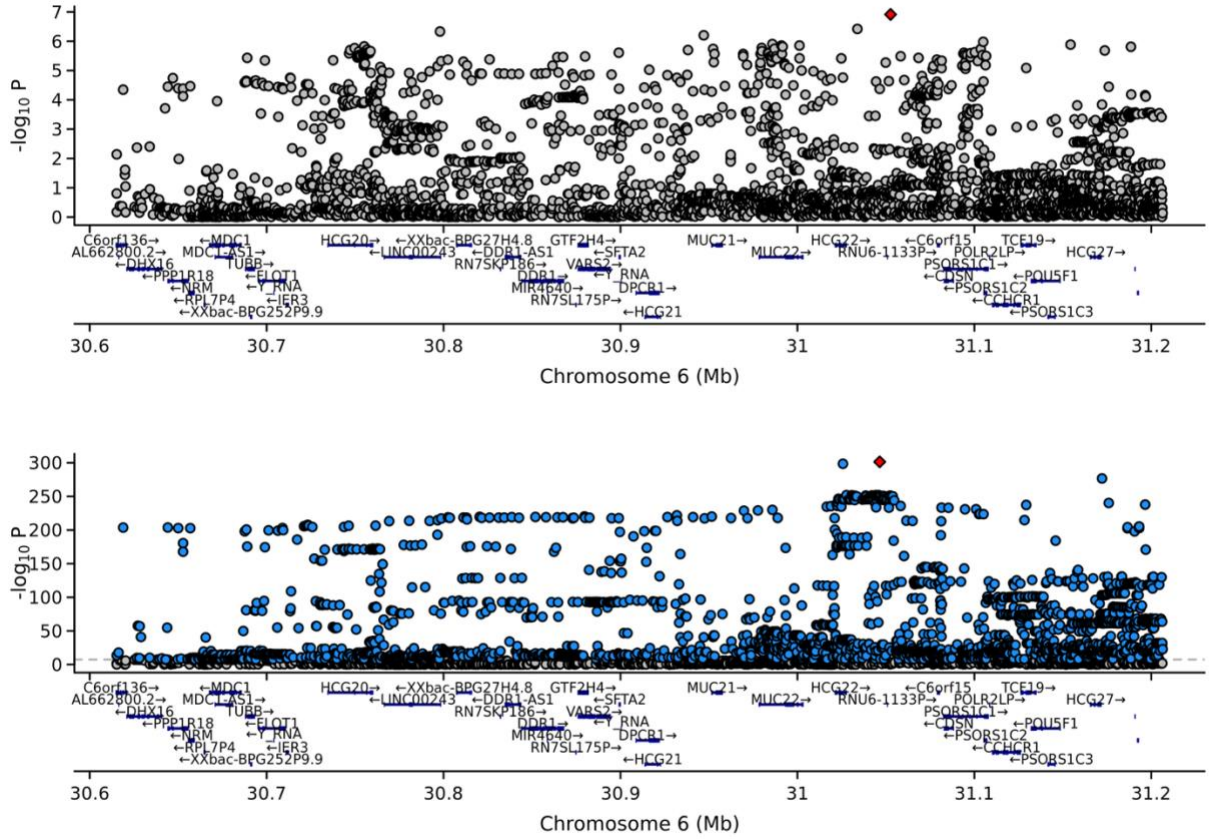


Figure S3 – Significant Locus on Chr6

Locus 957 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

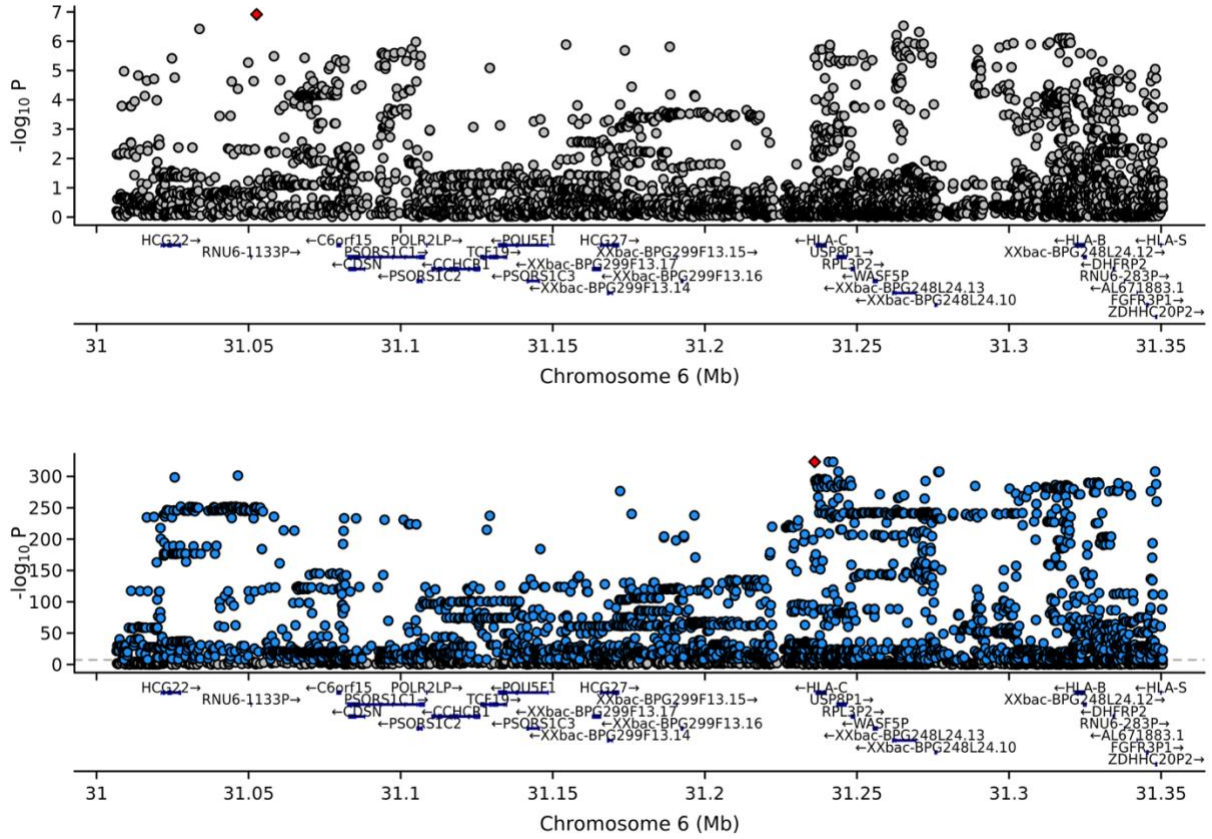


Figure S4 – Significant Locus on Chr6

Locus 958 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

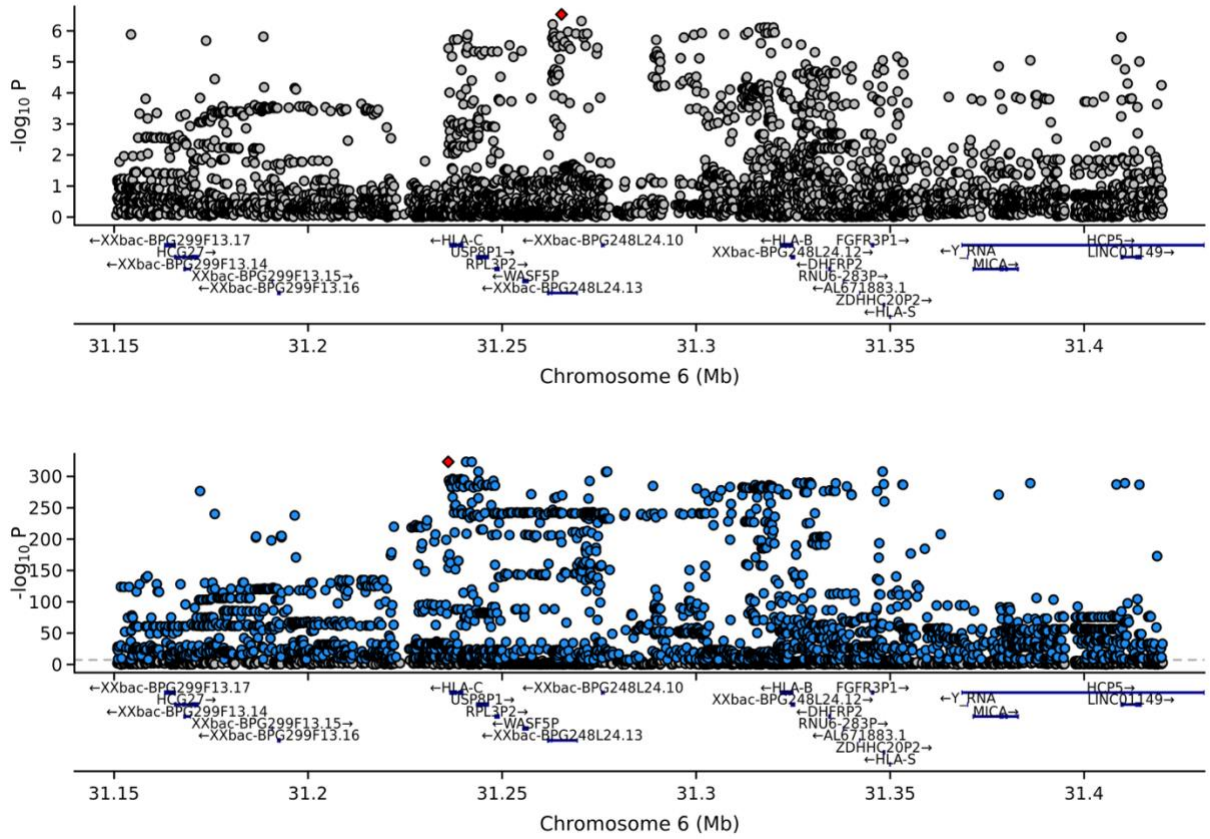


Figure S5 – Significant Locus on Chr6

Locus 959 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

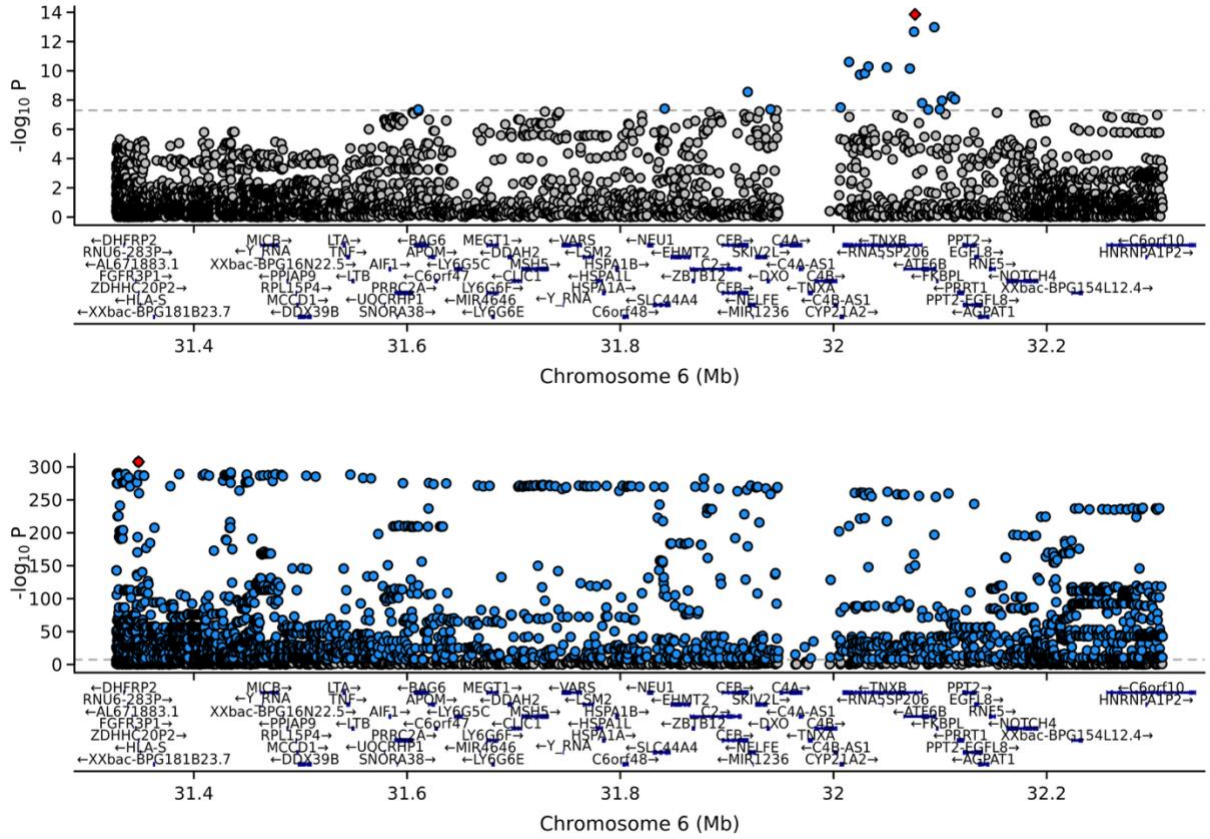


Figure S6 – Significant Locus on Chr6

Locus 961 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

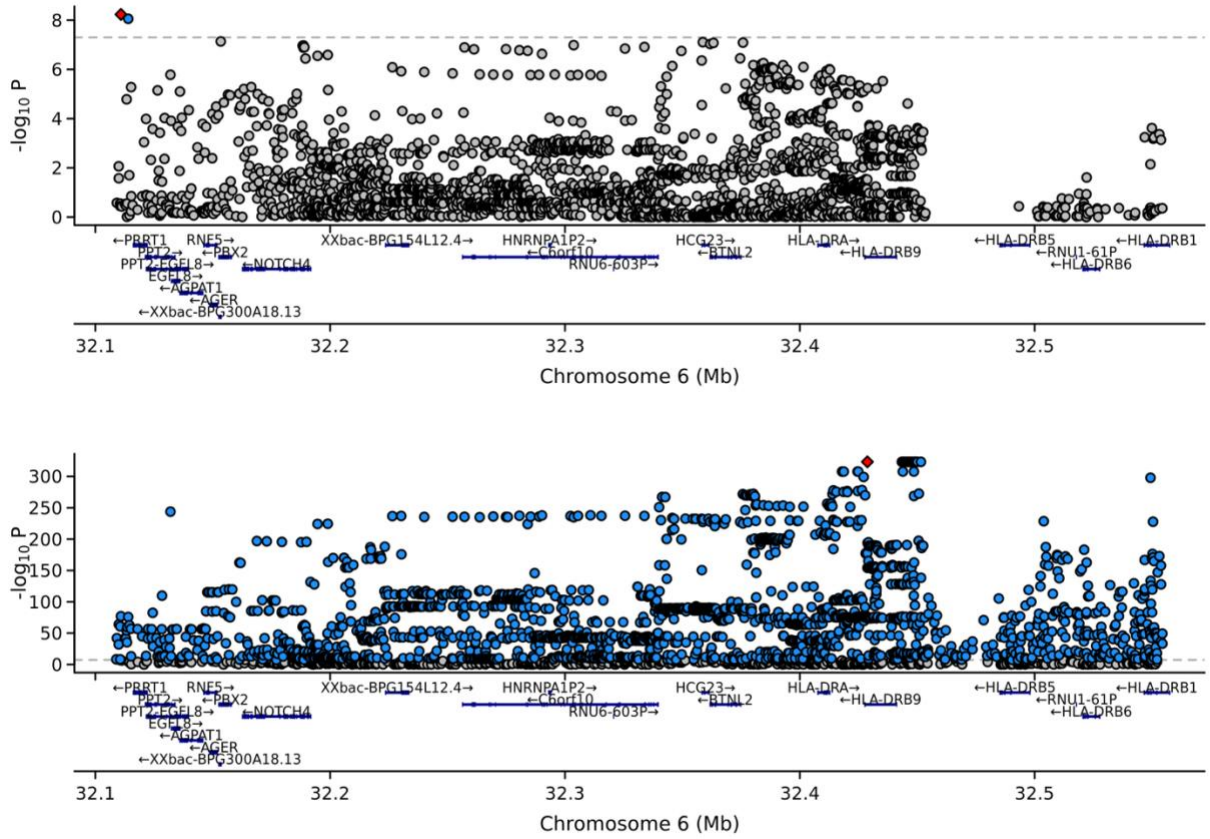


Figure S7 – Significant Locus on Chr6

Locus 962 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

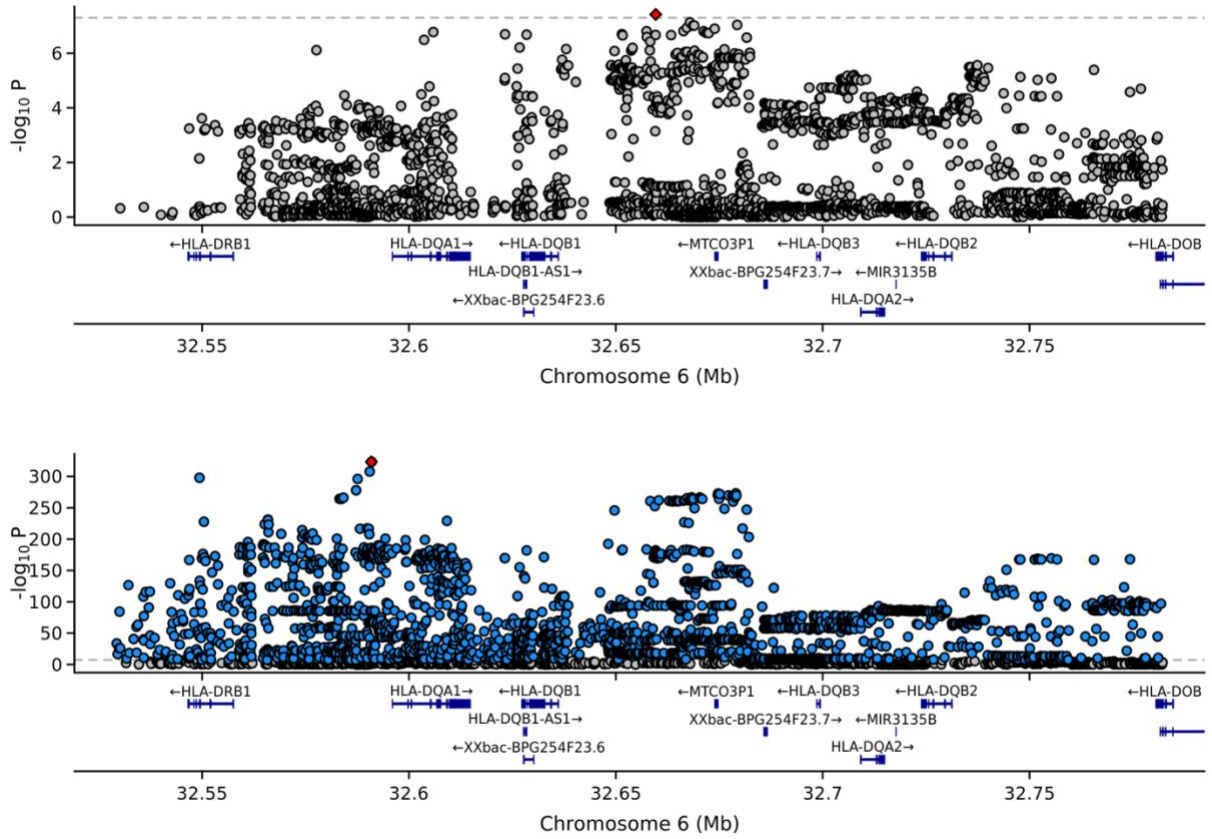


Figure S8 – Significant Locus on Chr6

Locus 966 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

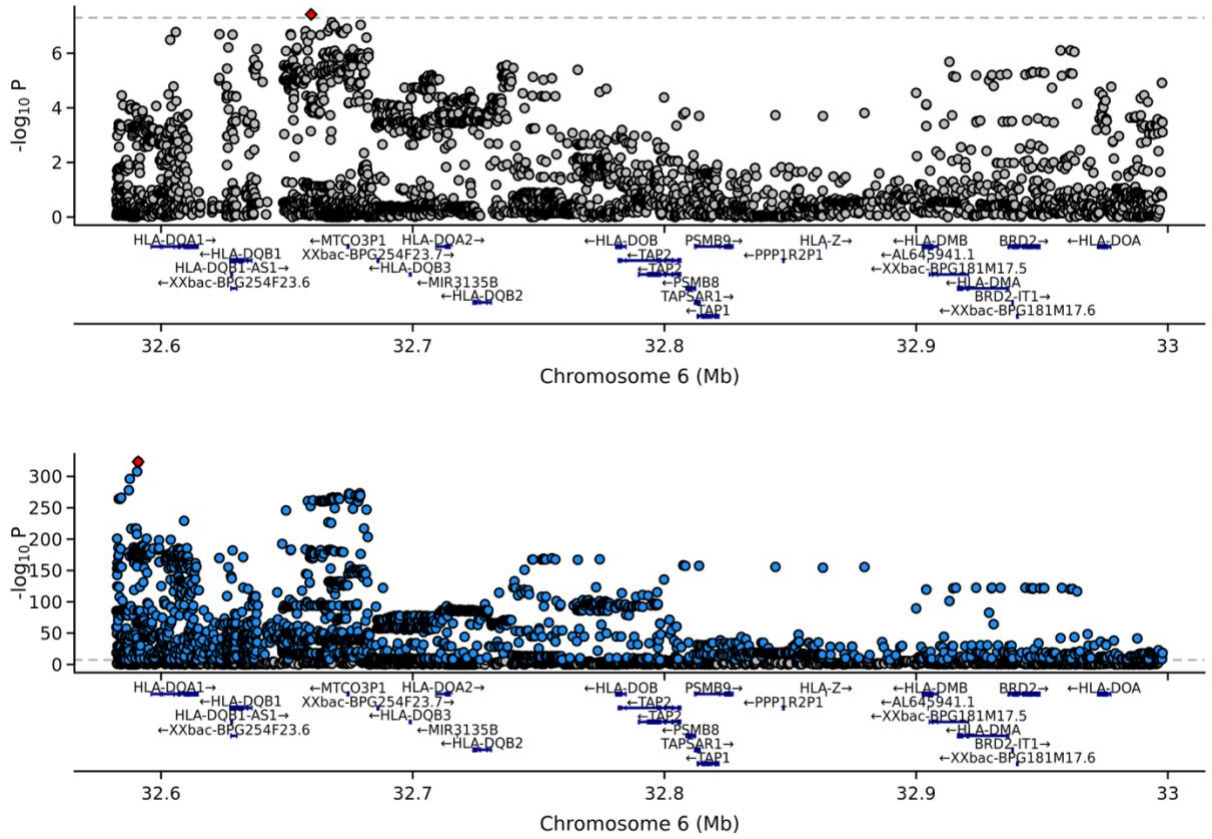


Figure S9 – Significant Locus on Chr6

Locus 967 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

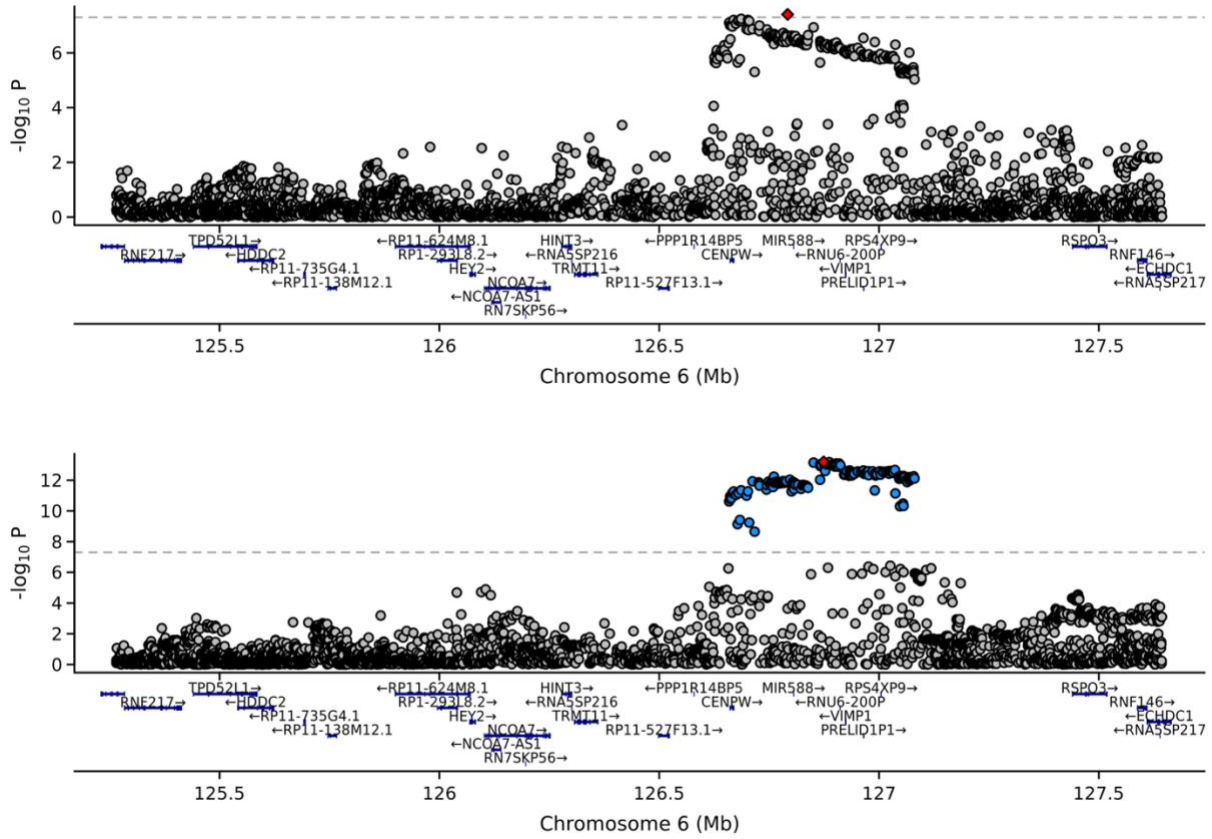


Figure S10 – Significant Locus on Chr6

Locus 1054 on chromosome 6, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

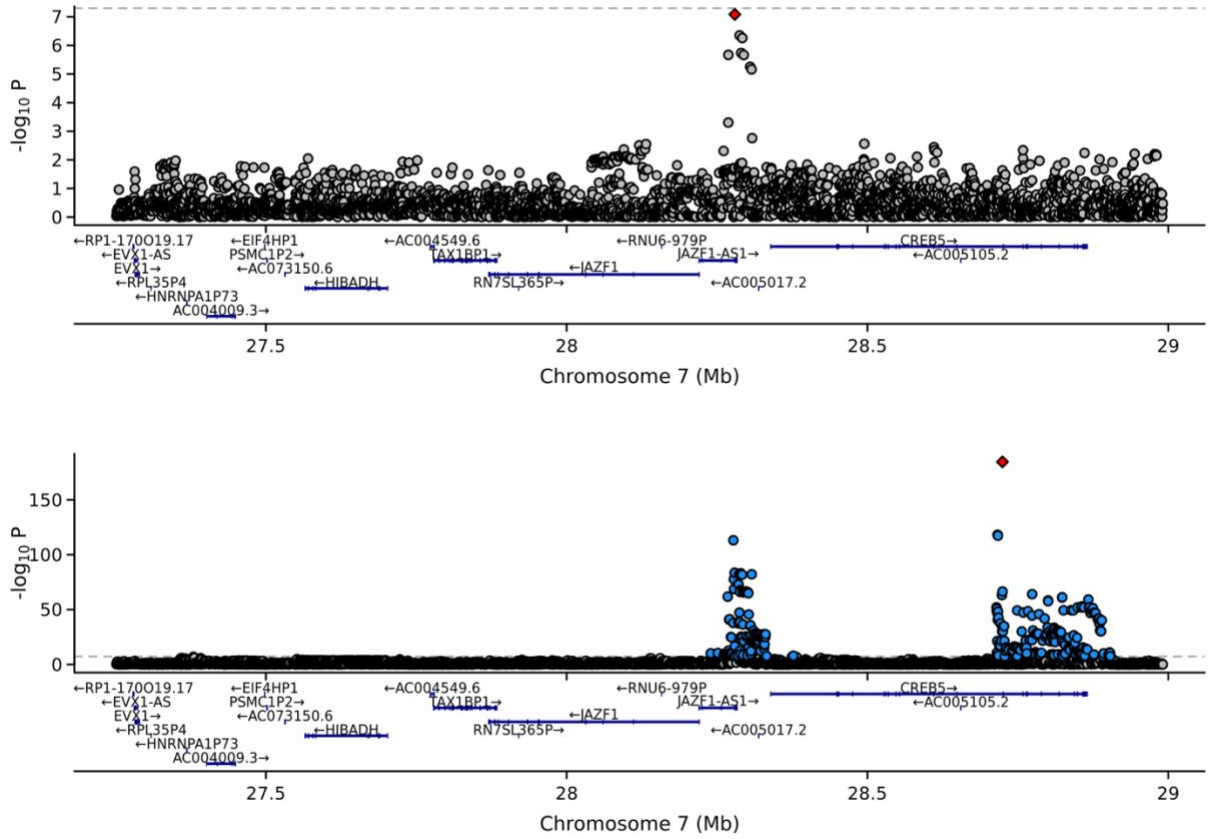


Figure S11 – Significant Locus on Chr7

Locus 1126 on chromosome 7, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

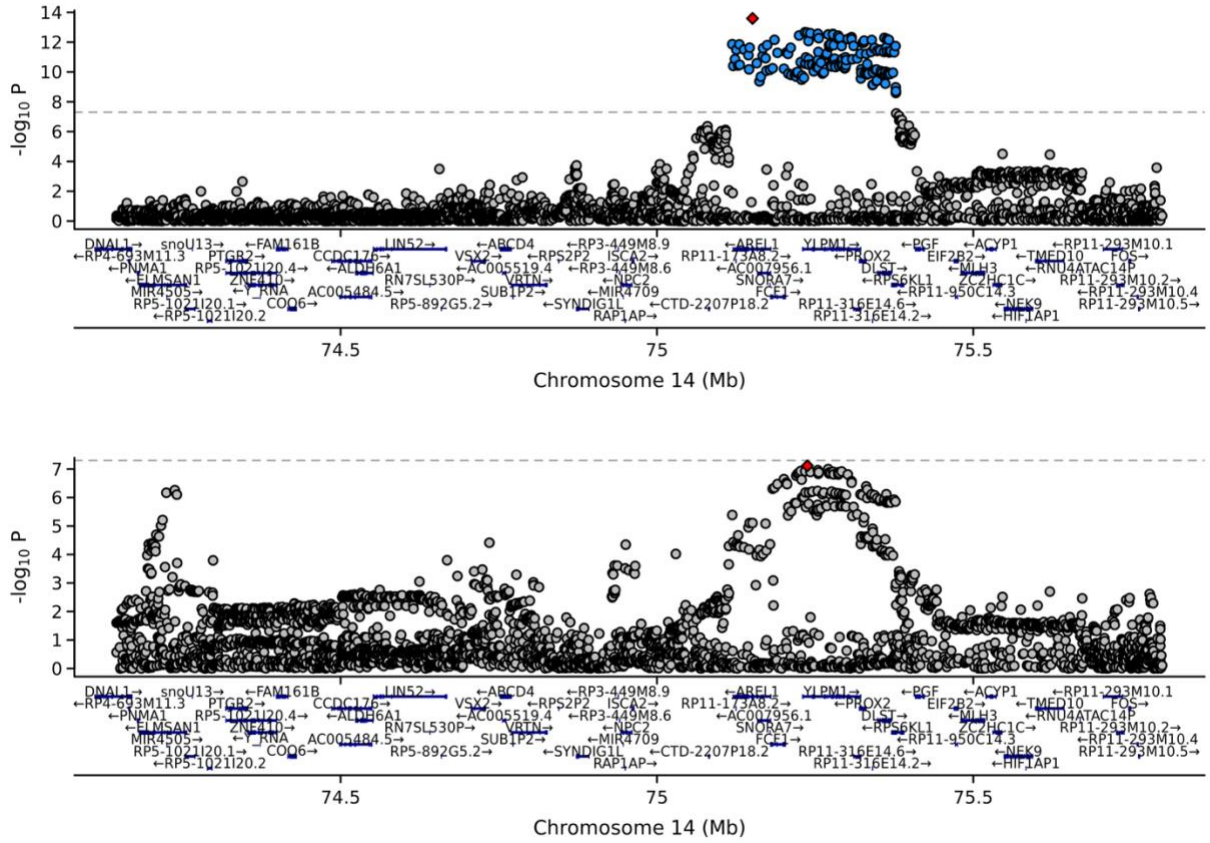


Figure S12 – Significant Locus on Chr14

Locus 2004 on chromosome 14, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

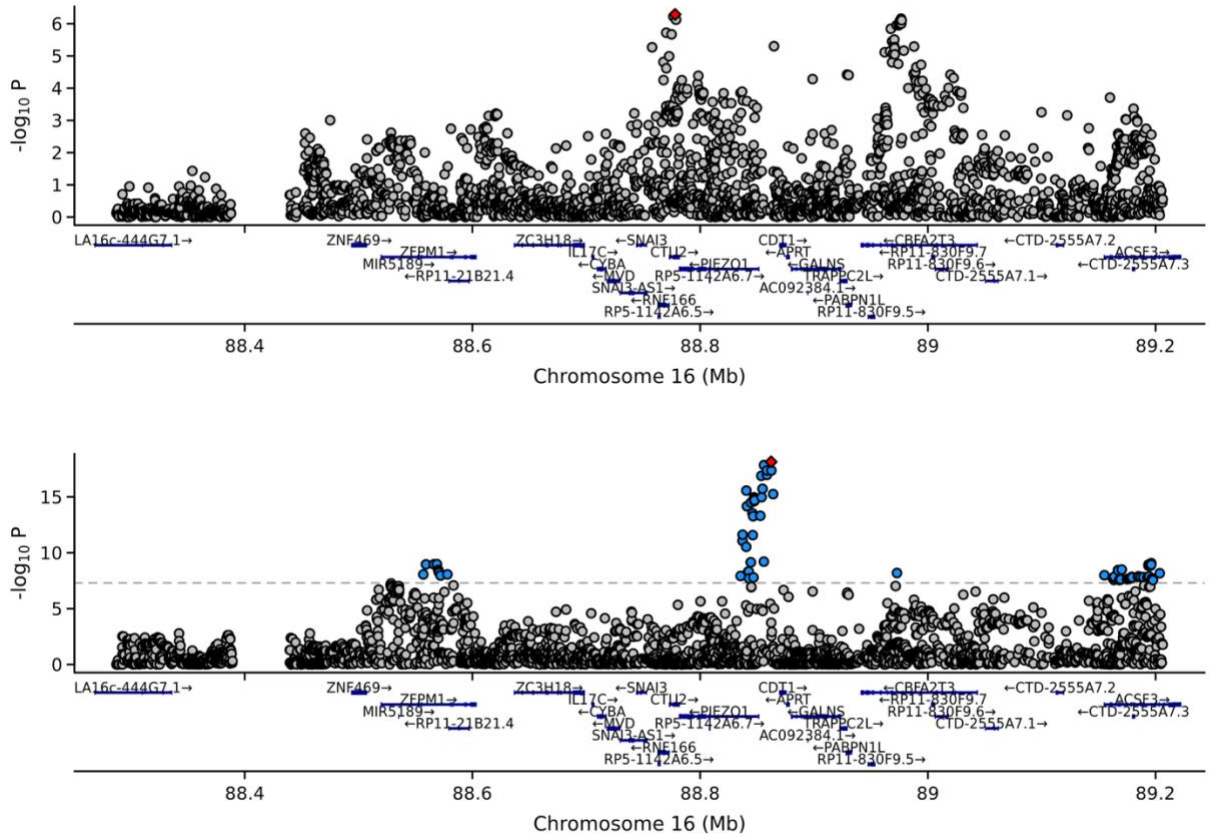


Figure S13 – Significant Locus on Chr16

Locus 2171 on chromosome 16, showing SNPs for neuroticism (upper) and WBC (lower). Significant SNPs are shown as blue dots; lead SNPs are shown as red diamonds. The dashed line indicates the threshold for significance (Bonferroni-corrected $-\log^{10} p<0.05$; correction was done for 511 tests).

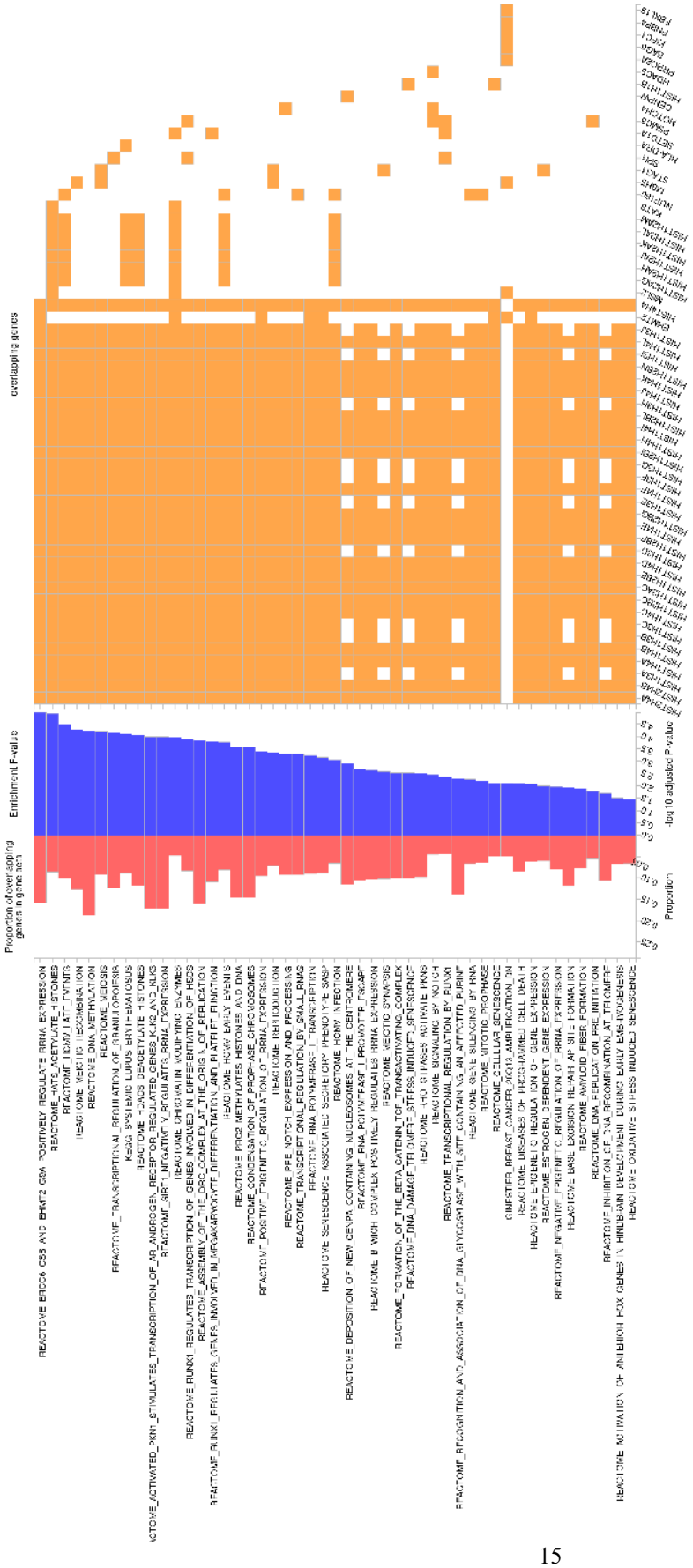


Figure S14 – Enriched gene sets for overlapping genes

Gene sets that are enriched for several overlapping genes for neuroticism and WBC. Most genes are related to histones; the gene sets are all related to the reactome.

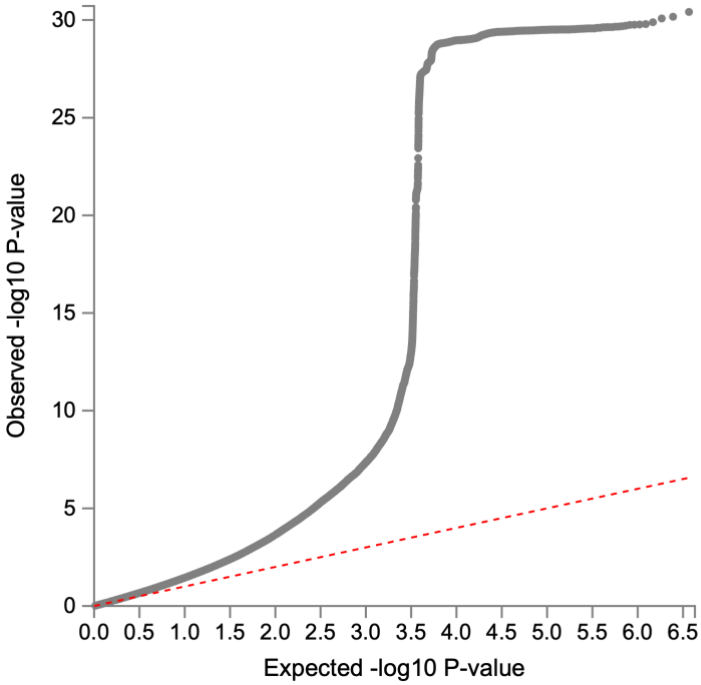
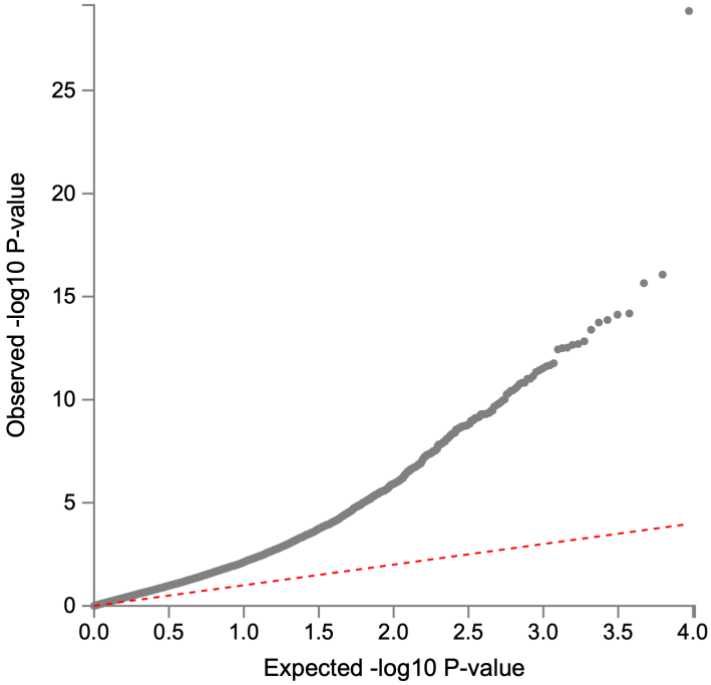


Figure S15 – QQ plot for neuroticism

QQ plot for neuroticism, based on SNPs. The x-axis shows the expected log-transformed *p*-values, and the y-axis the observed log-transformed *p*-values. The red dashed line shows the expected *p*-values for the SNPs, and the grey line shows the observed *p*-values for the SNPs.

Figure S16 – Gene-QQ plot for neuroticism

QQ plot for neuroticism, based on genes. The x-axis shows the expected log-transformed *p*-values, and the y-axis the observed log-transformed *p*-values. The red dashed line shows the expected *p*-values for the genes, and the grey line shows the observed *p*-values for the genes.



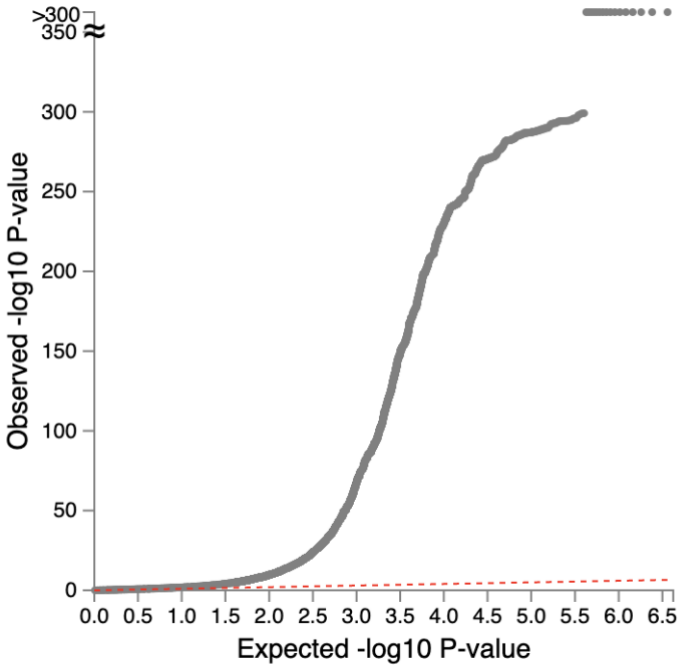
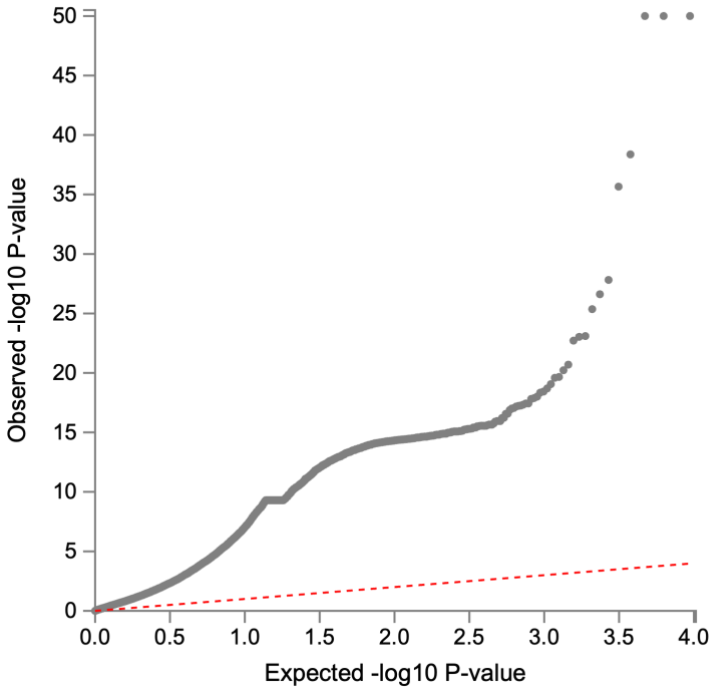


Figure S17 – QQ plot for WBC

QQ plot for WBC, based on SNPs. The x-axis shows the expected log-transformed *p*-values, and the y-axis the observed log-transformed *p*-values. The red dashed line shows the expected *p*-values for the SNPs, and the grey line shows the observed *p*-values for the SNPs.

Figure S18 – Gene-QQ plot for WBC

QQ plot for WBC, based on genes. The x-axis shows the expected log-transformed *p*-values, and the y-axis the observed log-transformed *p*-values. The red dashed line shows the expected *p*-values for the genes, and the grey line shows the observed *p*-values for the genes.



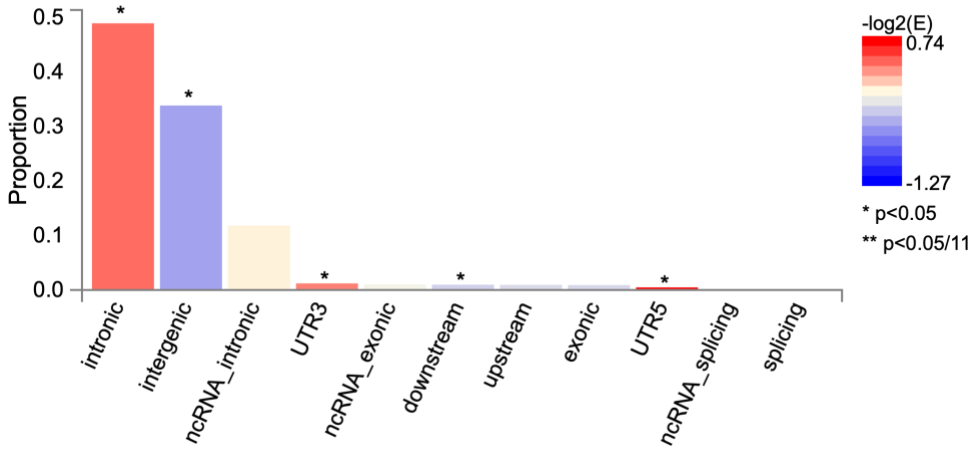


Figure S19 – Gene functions for neuroticism

Function of genes involved in neuroticism. The stars indicate the p-value.

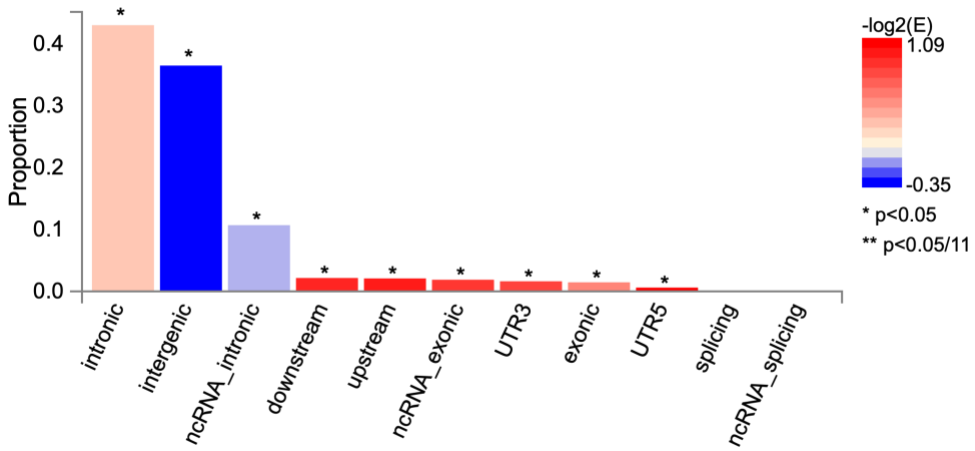


Figure S20 – Gene function for WBC

Function of genes involved in WBC. The stars indicate the p-value.

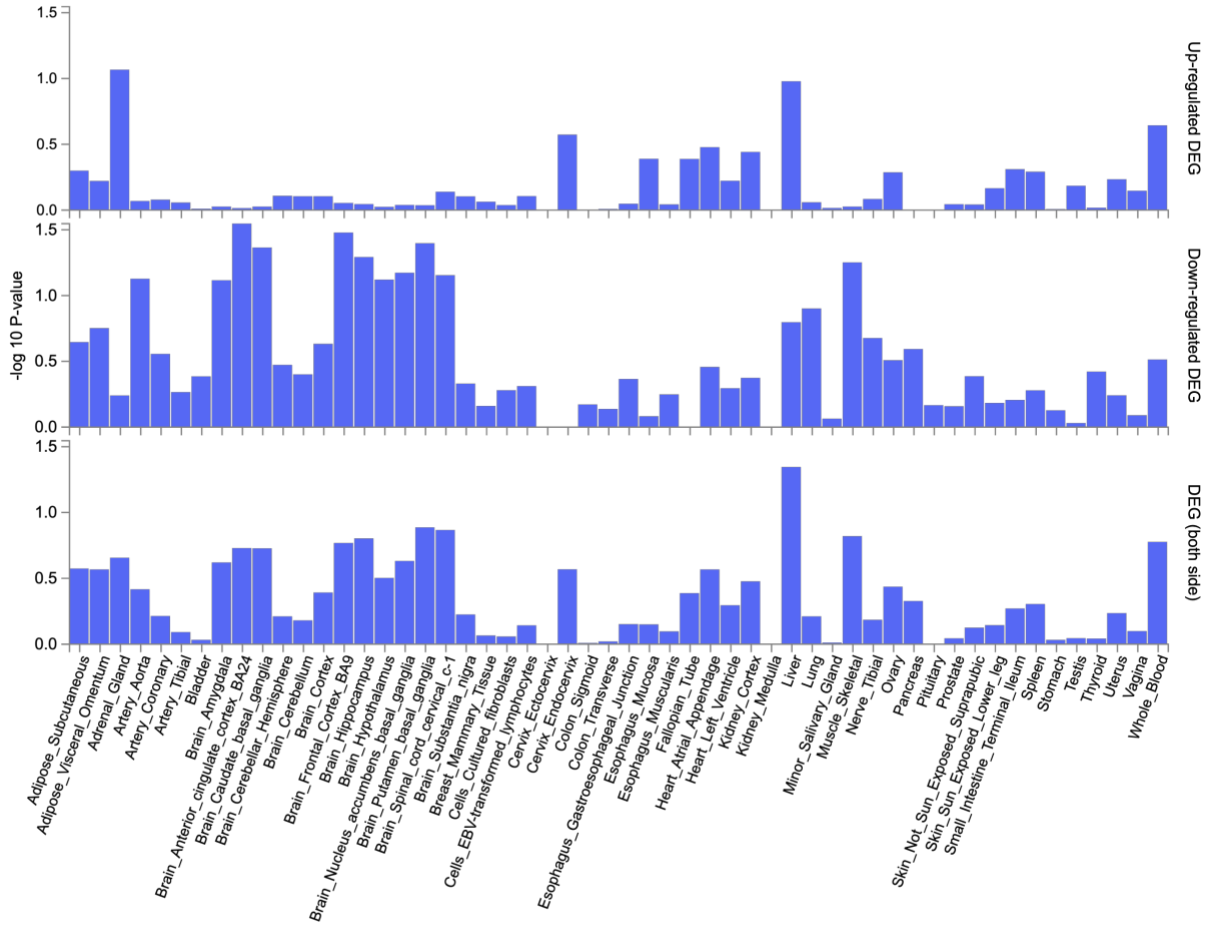


Figure S21 – Gene expression per tissue type

Gene expression per tissue type for the overlapping genes between neuroticism and WBC; tissues are ordered alphabetically. The blue bars indicate that there are no significant associations between gene expression and tissue type for overlapping genes for neuroticism and WBC.