**Stratifying depression by neuroticism: revisiting a diagnostic tradition using GWAS data**

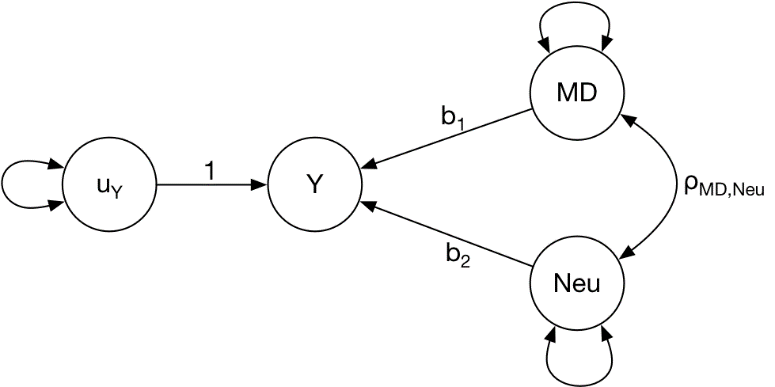
**Supplementary Information**

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**GenomicSEM multiple regression model**

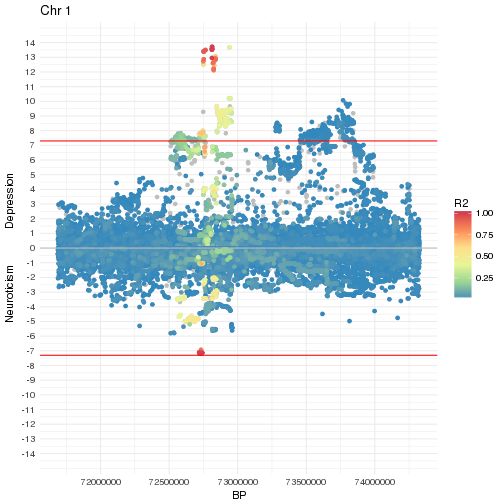
For each trait Y we fitted the following multiple regression on major depression (MD) and neuroticism (Neu)



with the lavaan syntax

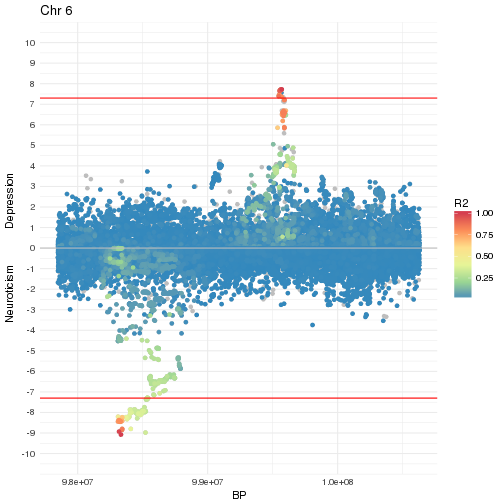
Y ~ MD + Neu  
MD~~Neu

**Figures S1-S3:** Manhattan plots for regions identified by pairwise GWAS analysis to have separate association signals for MDD (plotted as -log10(p)) and Neuroticism (plotted as log10(p)). Color of each SNP represents linkage (R2) with the top SNP from each GWAS in this region.



**Figure S1.** Region 71.6-74.3Mb on chromosome 1

**Figure S2.** Region 157.3-159.5MB on chromosome 3.

**Figure S3**. Region 97.8-100.6Mb on chromosome 6

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