

Descriptions of Supplementary Figures and Tables

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Figure S2 The scatter plots show overall effect of blood metabolites on aortic stenosis.

Figure S3 The leave-one-out analysis for inflammatory proteins on aortic stenosis.

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Table S17. The mediation analysis of blood metabolites in the causal relationship between gut microbiota and AS.

Table S18. Mendelian randomization analysis on the causal effect of AS-associated gut microbiota on AS-associated immune cells.

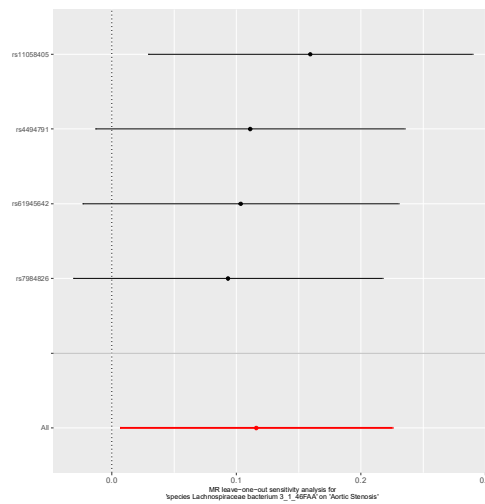
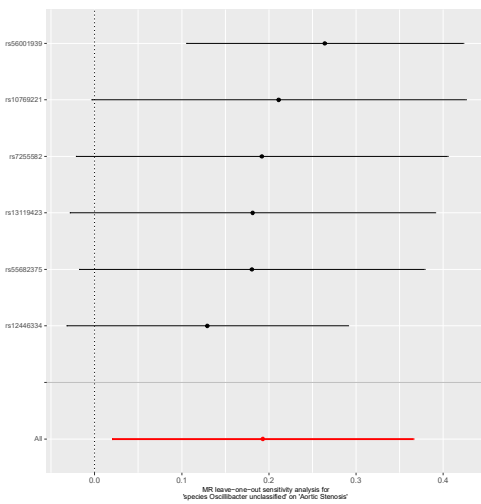
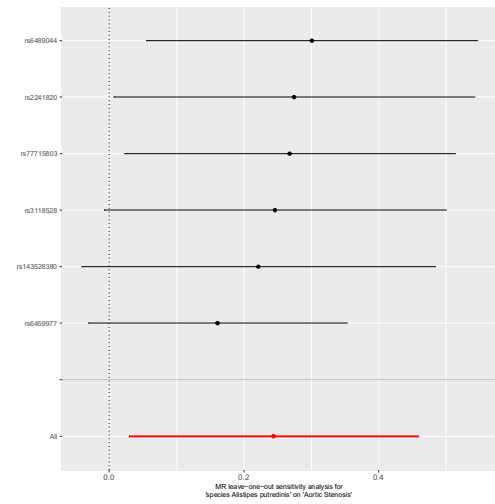
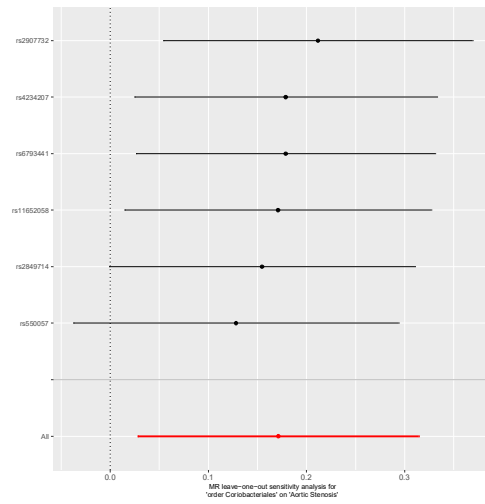
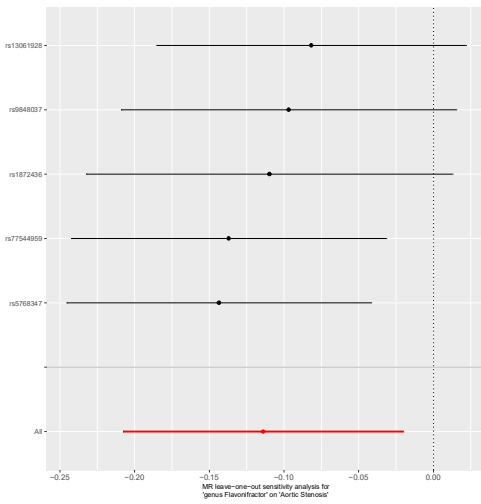
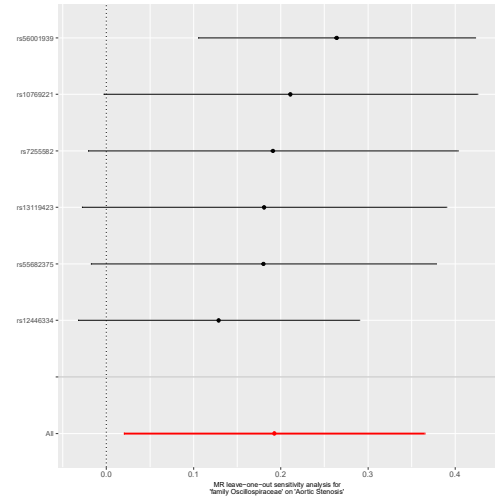
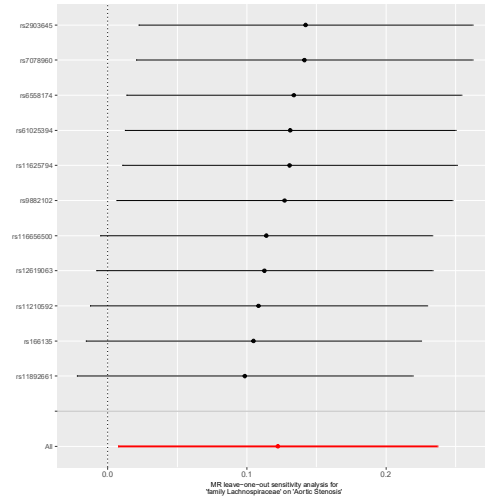
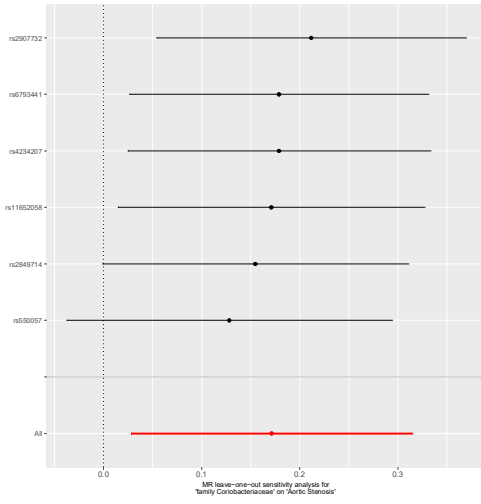
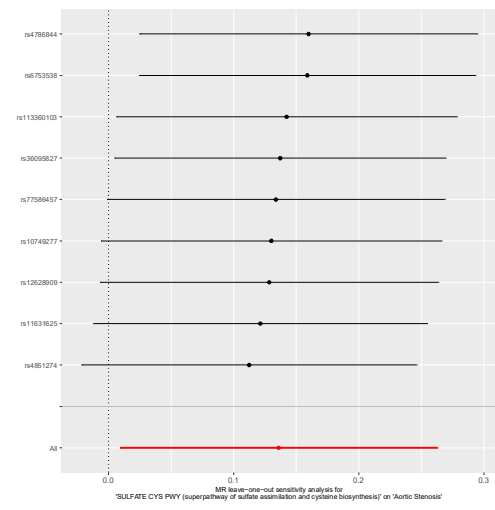
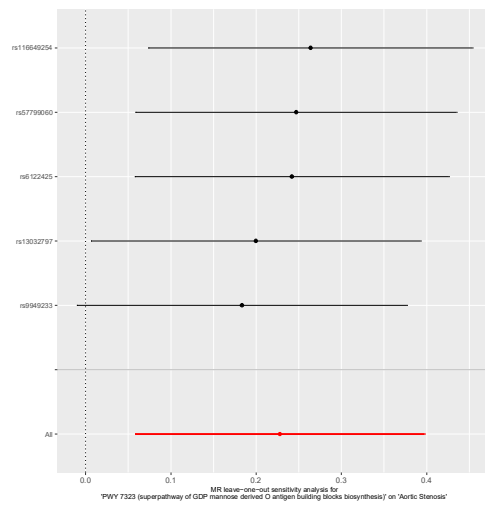
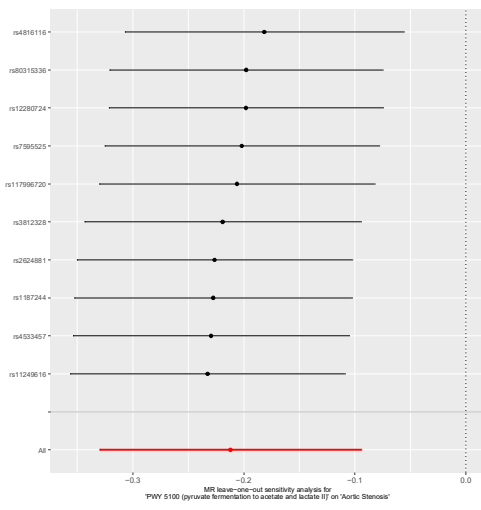


Figure S1. The leave-one-out analysis for gut microbiota on aortic stenosis.

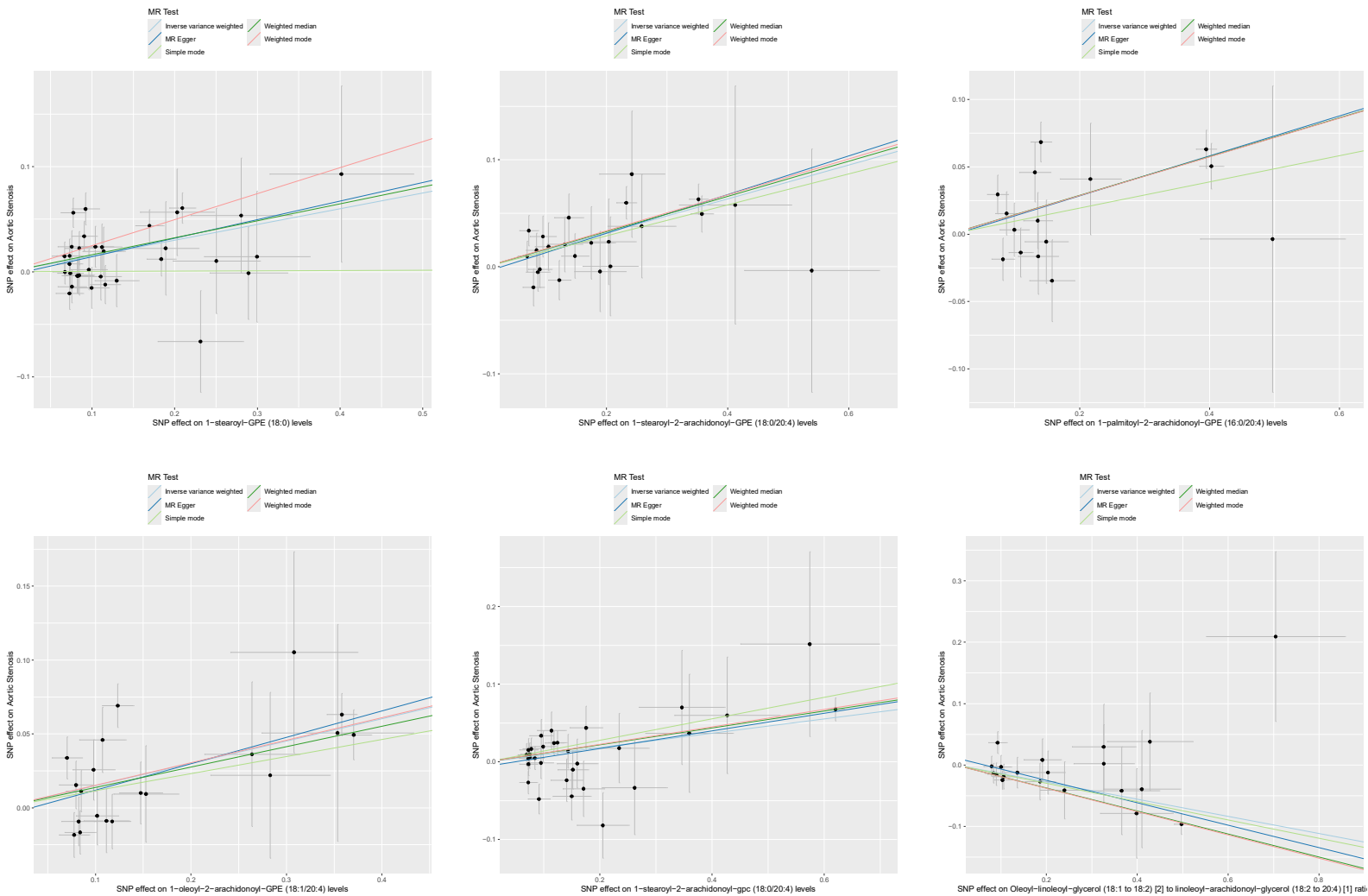


Figure S2. The scatter plots show overall effect of blood metabolites on aortic stenosis.

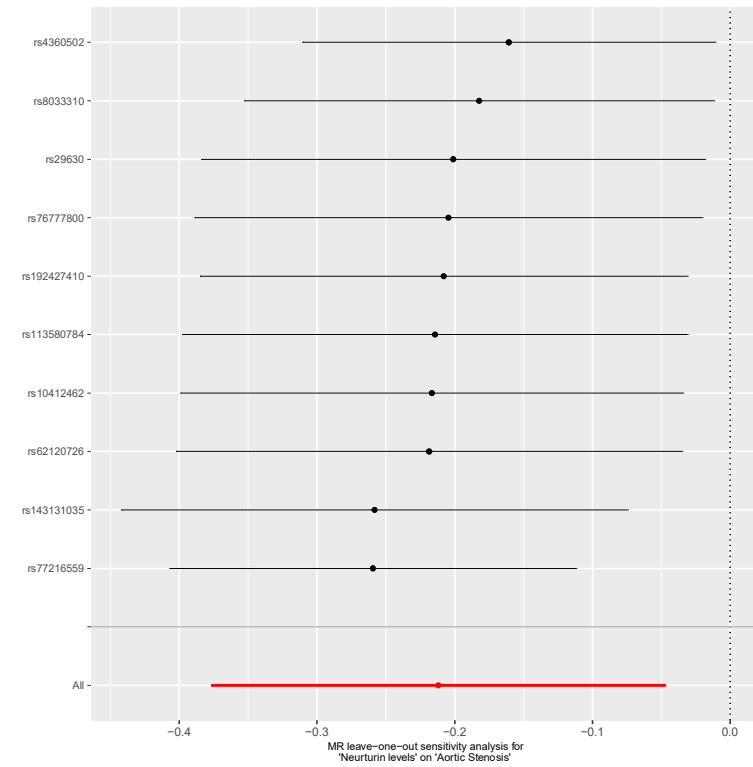
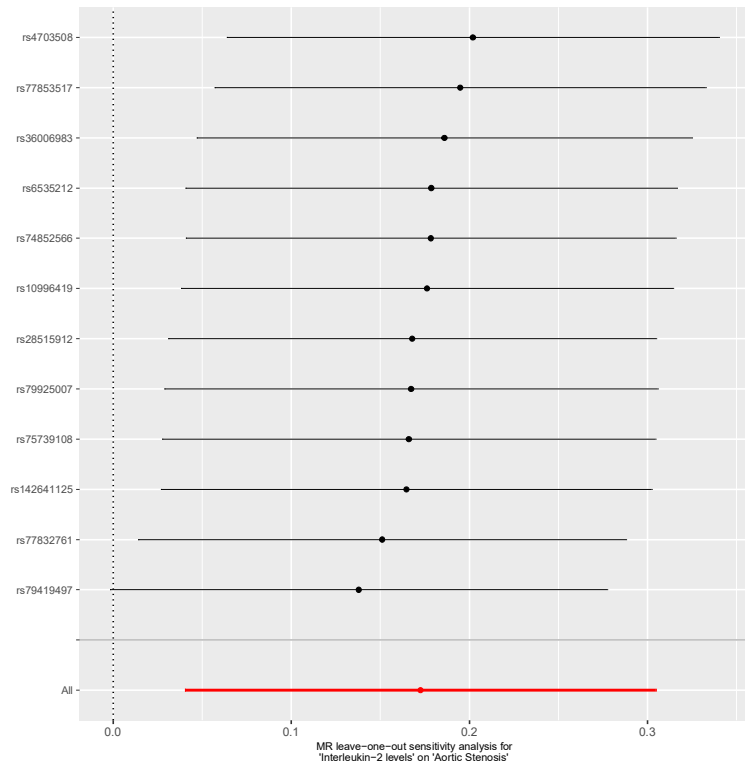
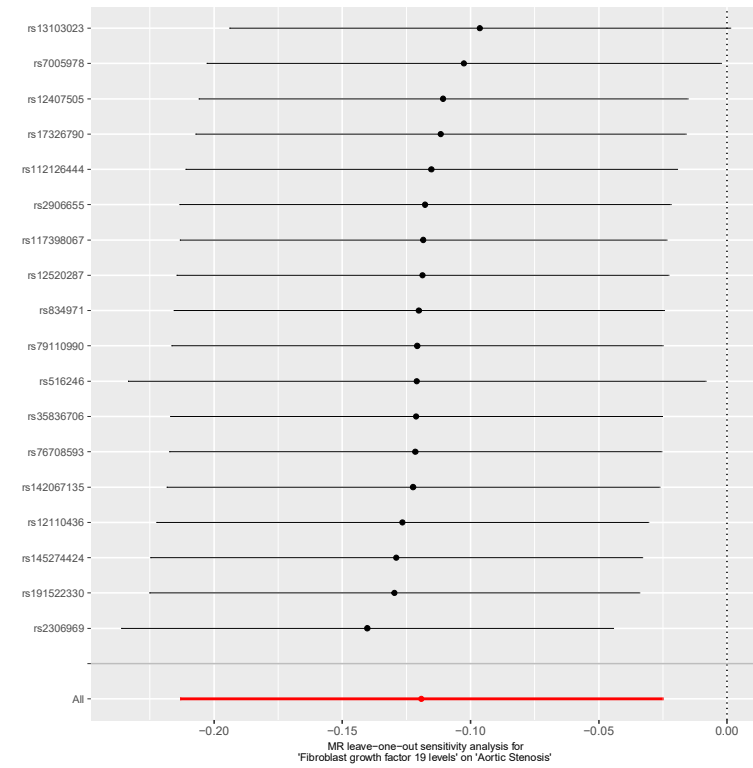
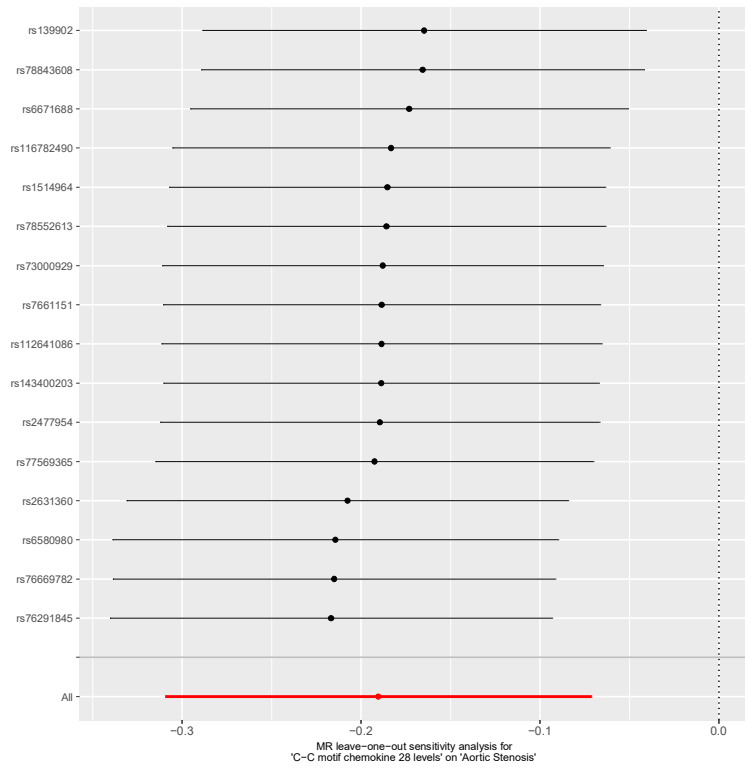


Figure S3. The leave-one-out analysis for inflammatory proteins on aortic stenosis.

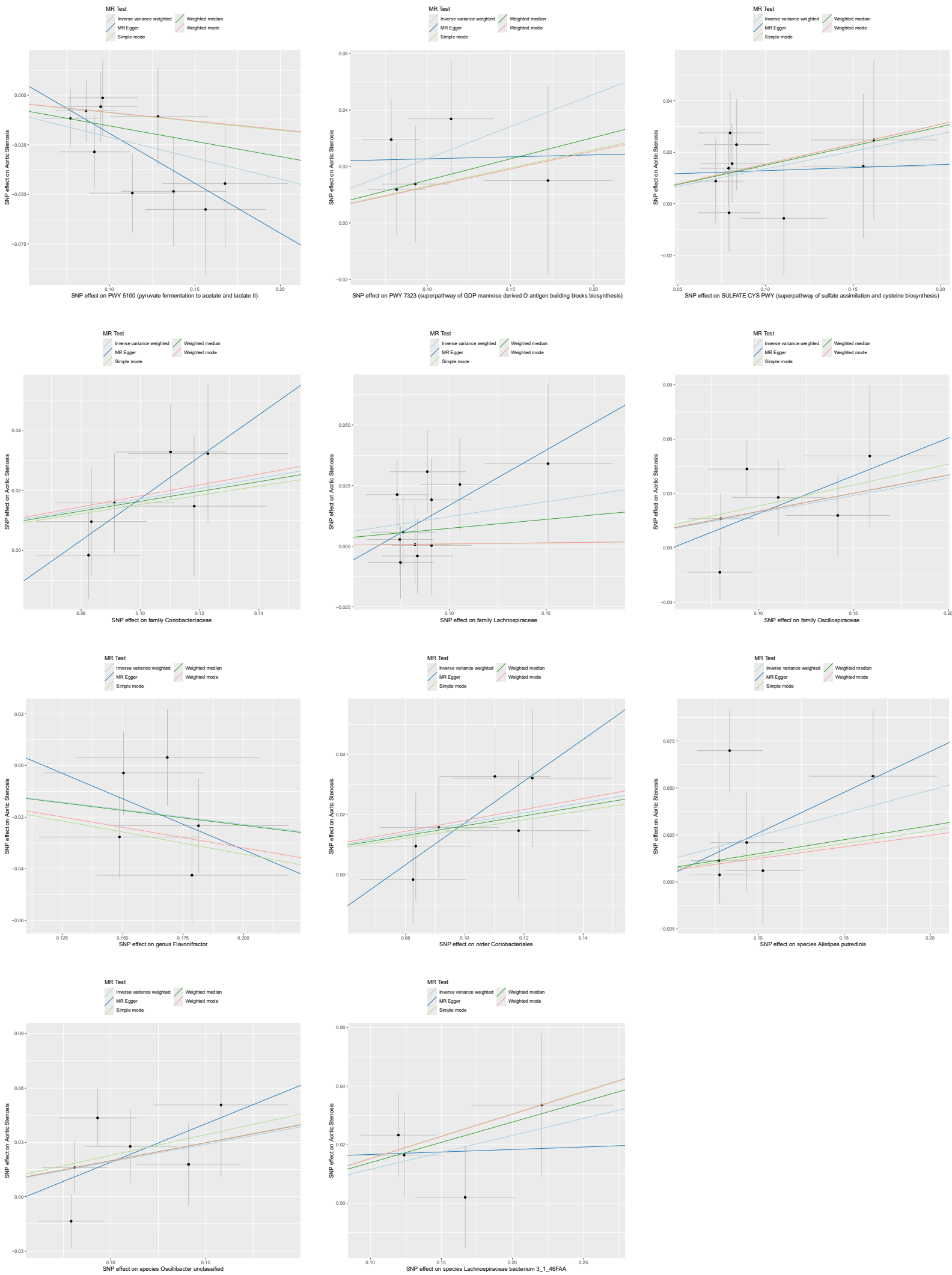


Figure S4. The scatter plots show overall effect of gut microbiota on aortic stenosis.

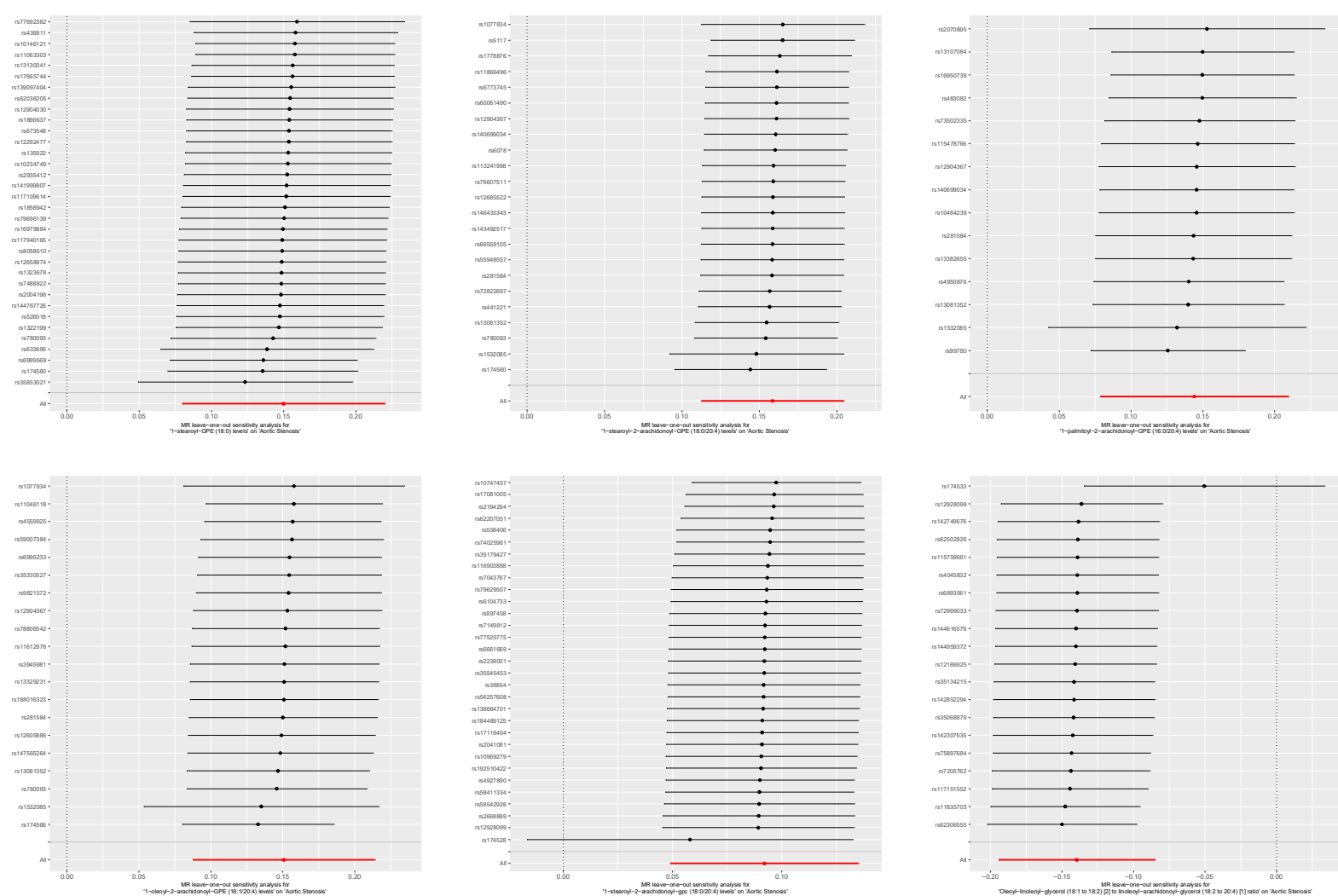


Figure S5. The leave-one-out analysis for blood metabolites on aortic stenosis.

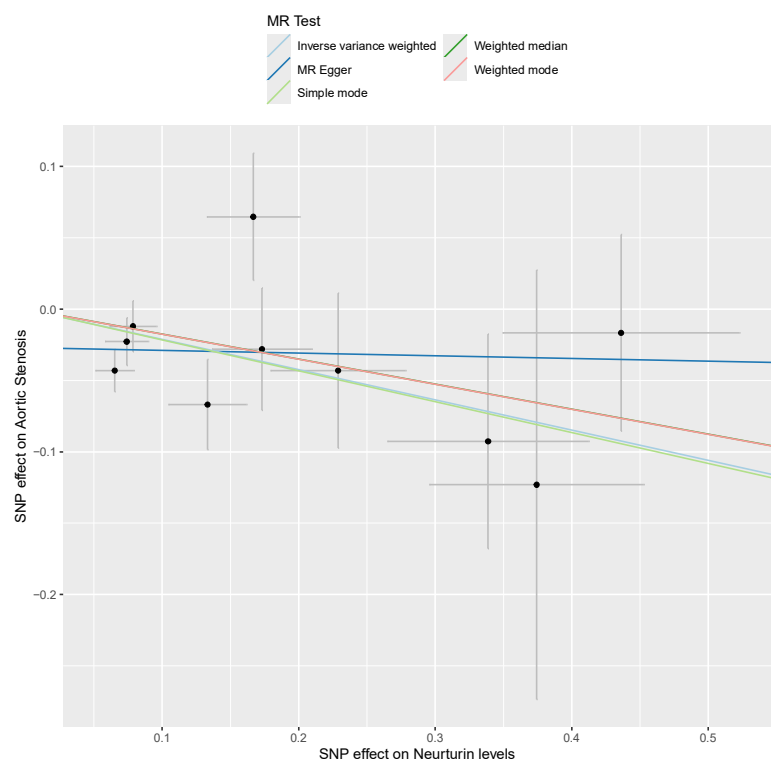
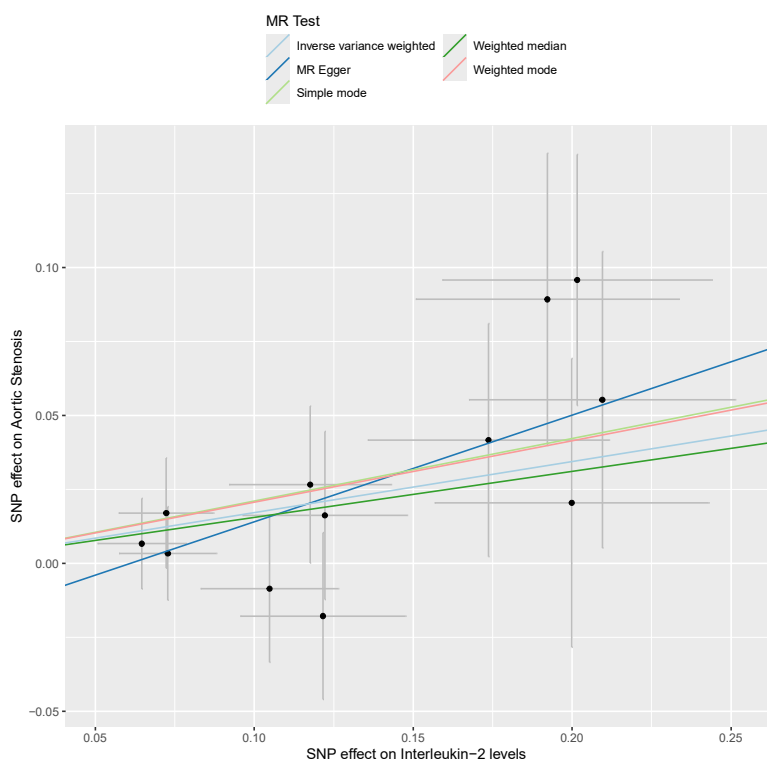
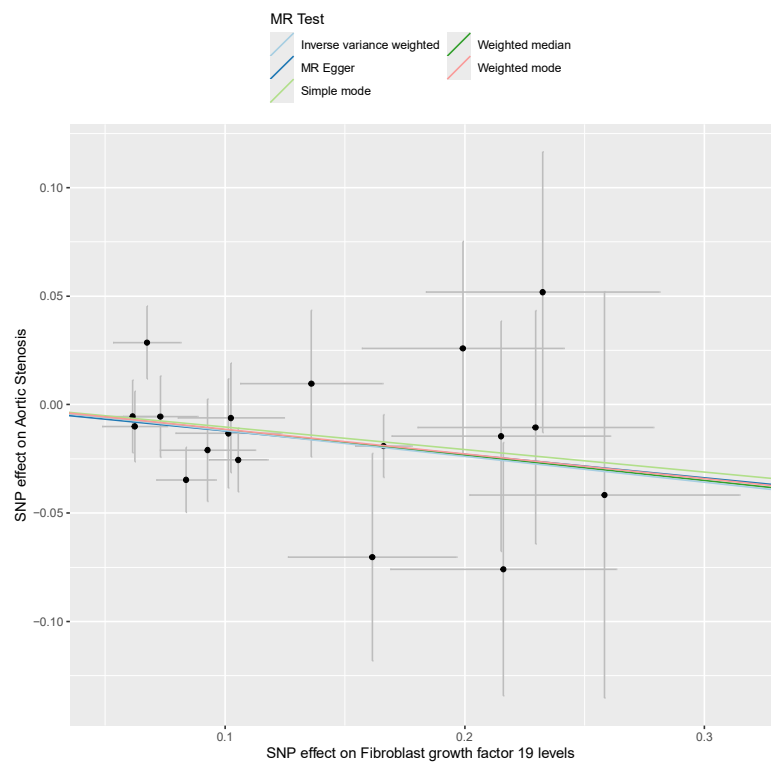
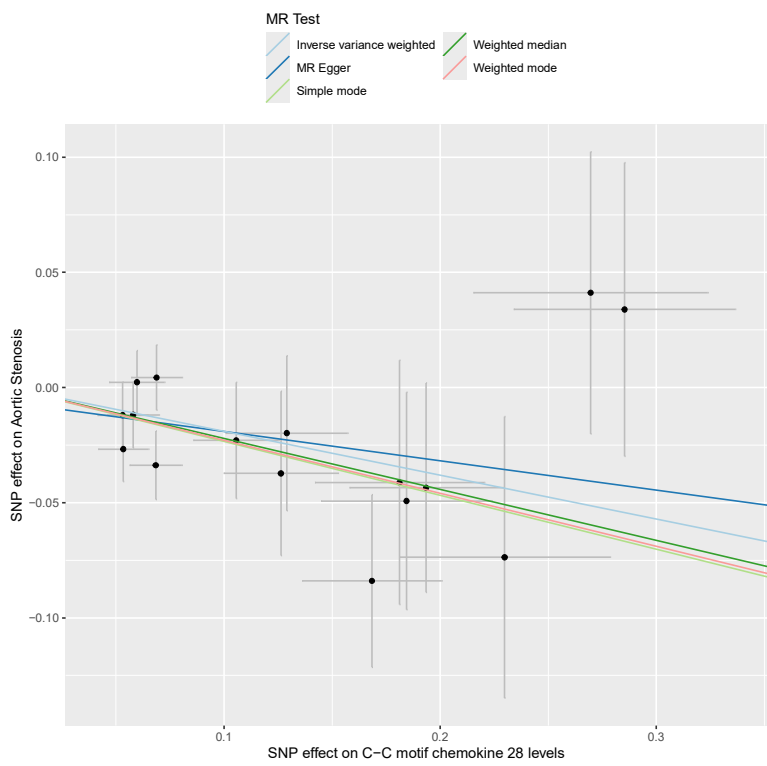


Figure S6. The scatter plots show overall effect of inflammatory proteins on aortic stenosis.

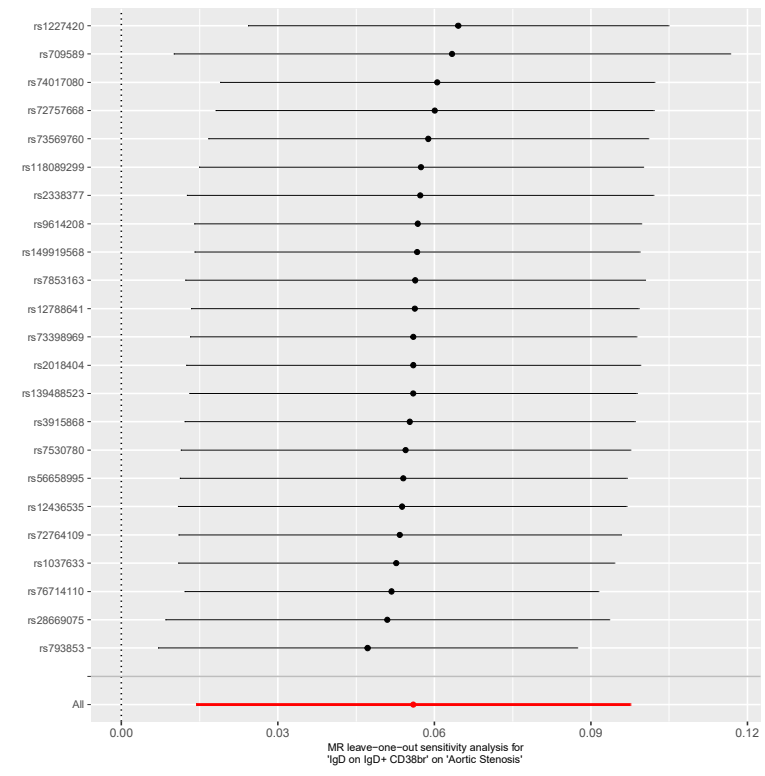
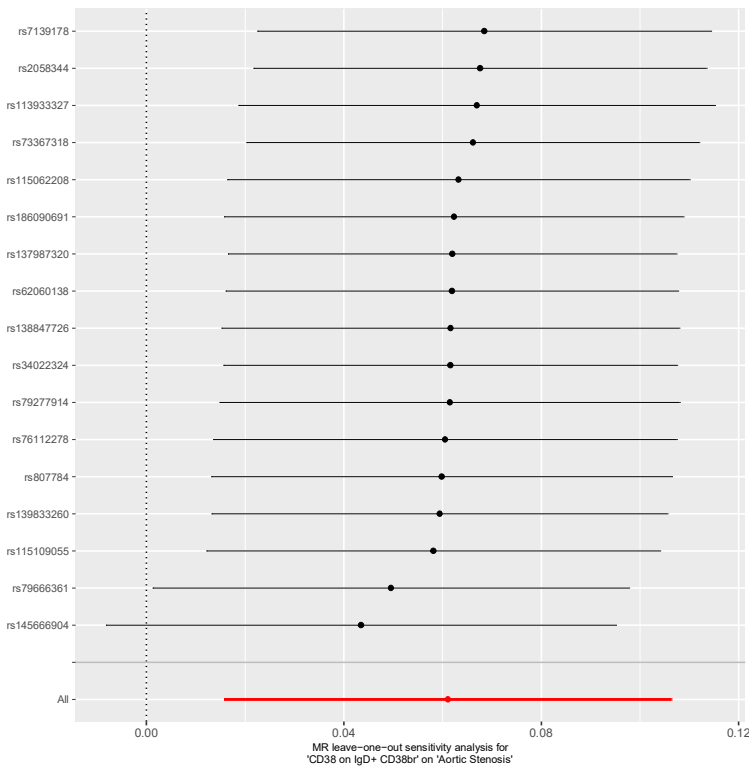
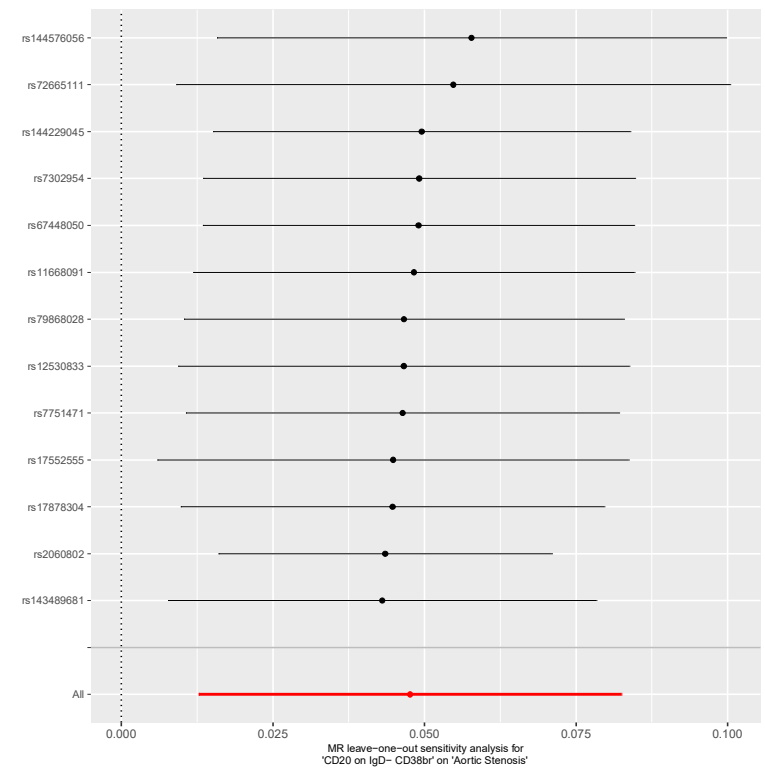
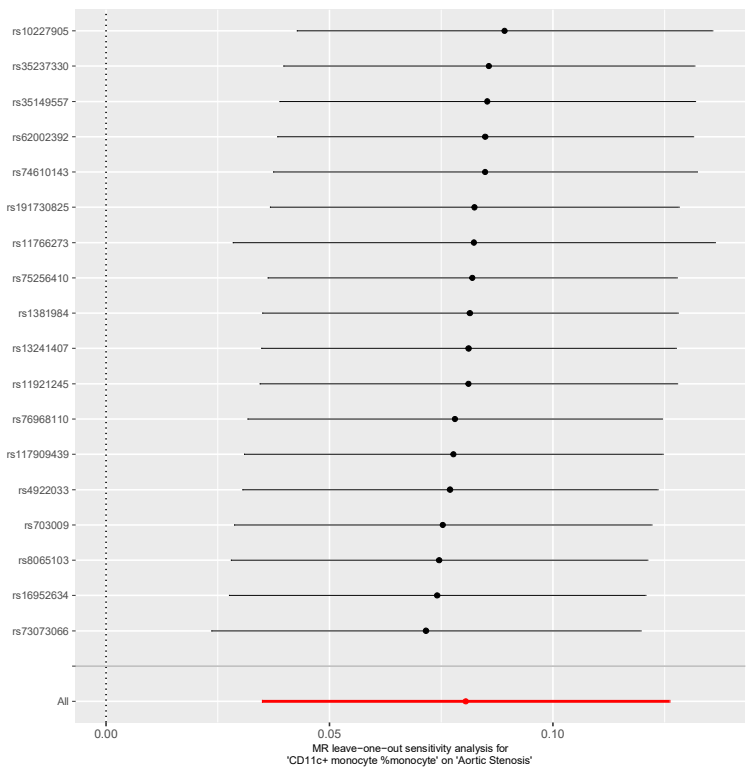


Figure S7. The leave-one-out analysis for immune cells on aortic stenosis.

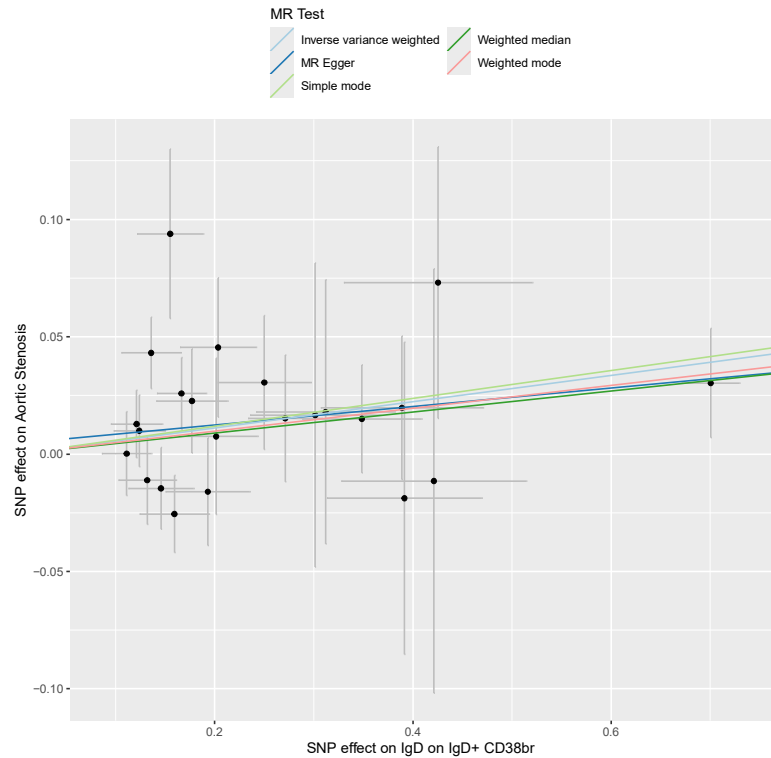
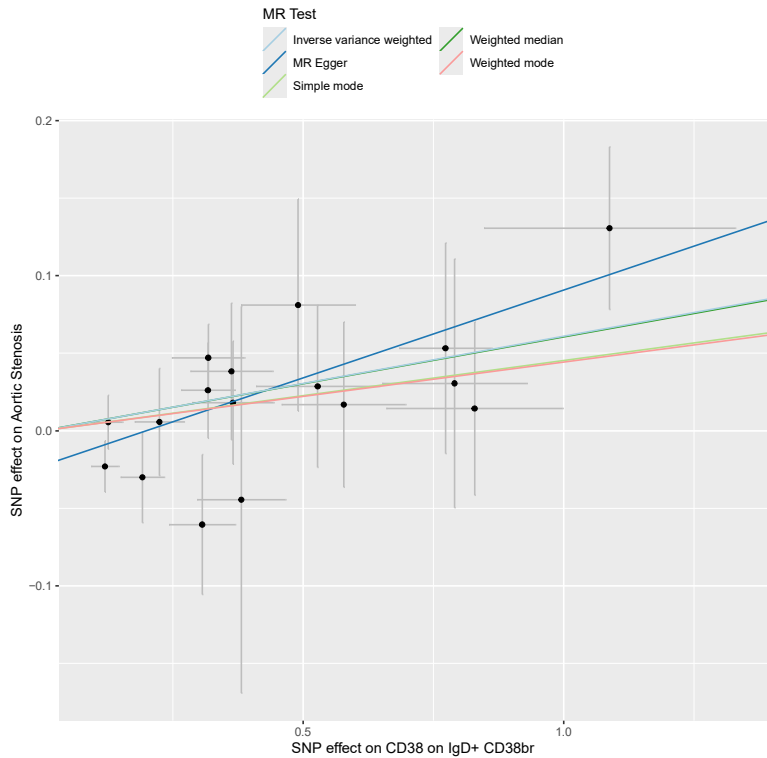
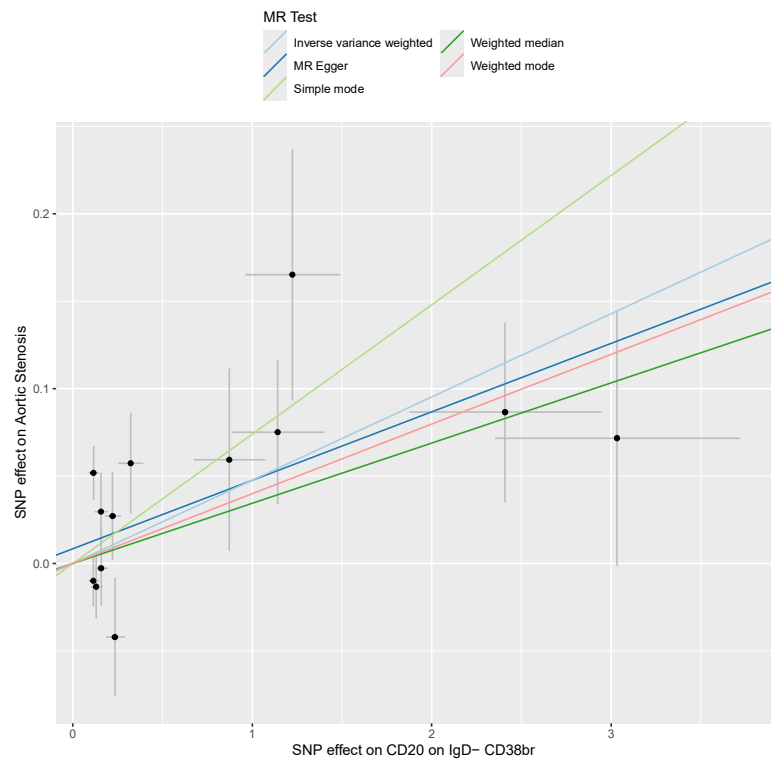
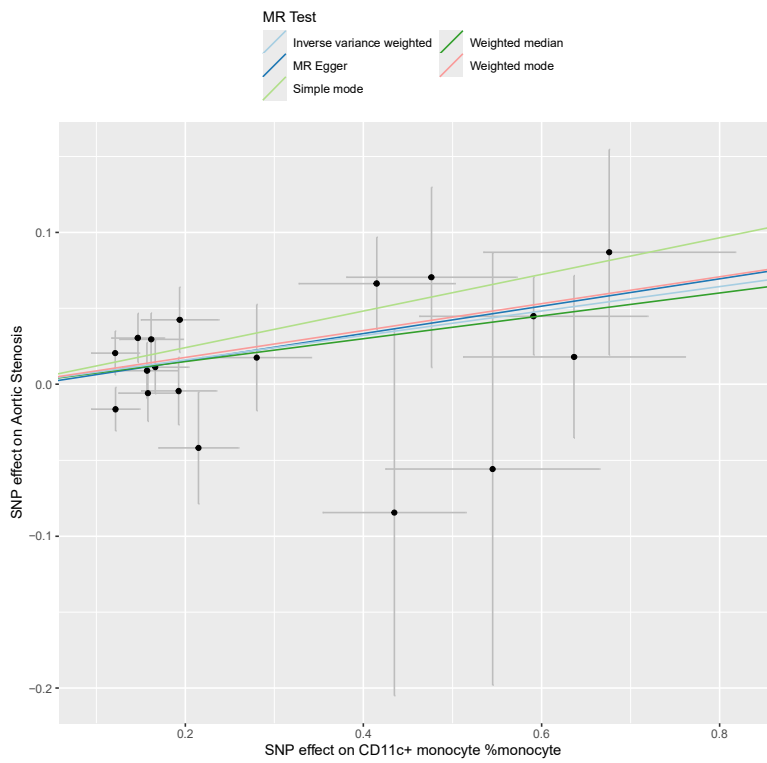


Figure S8. The scatter plots show overall effect of immune cells on aortic stenosis.