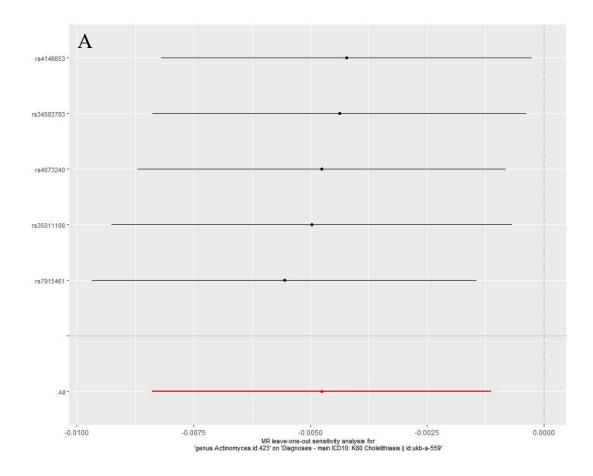


Figure S1. (A) Leave-one-out sensitivity analysis for *Order Rhodospirillales* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Order Rhodospirillales* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.



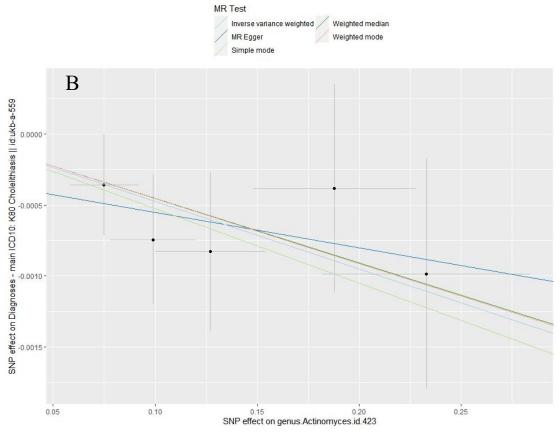


Figure S2. (A) Leave-one-out sensitivity analysis for *Genus Actinomyces* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Actinomyces* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

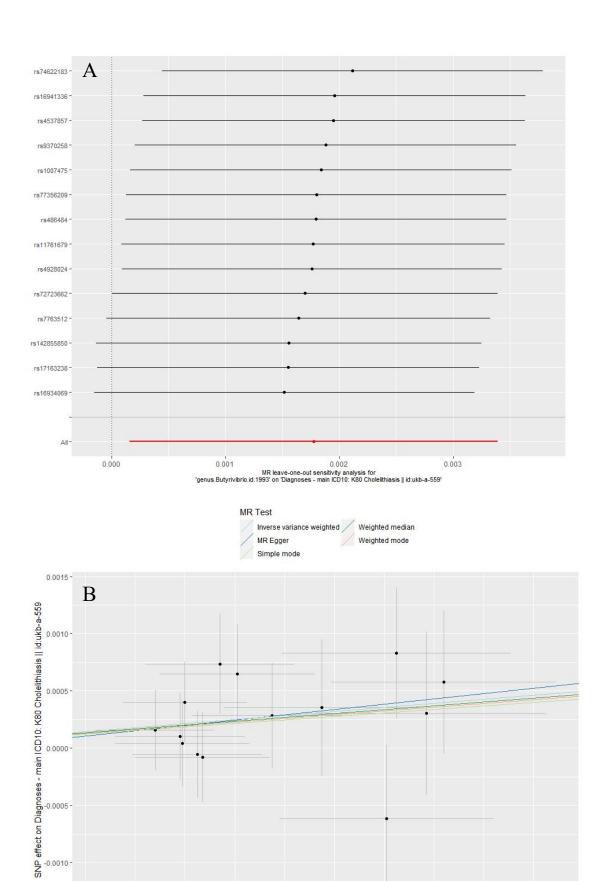


Figure S3. (A) Leave-one-out sensitivity analysis for *Genus Butyrivibrio* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Butyrivibrio* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

0.16 0.20 SNP effect on genus.Butyrivibrio.id.1993 0.24

0.12

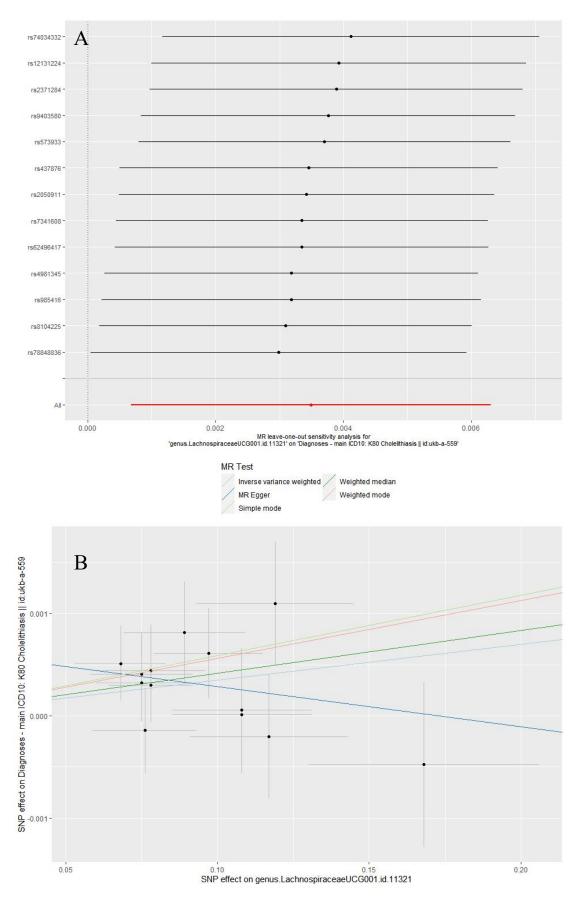


Figure S4. (A) Leave-one-out sensitivity analysis for *Genus Lachnospiraceae_UCG_001* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Lachnospiraceae_UCG_001* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

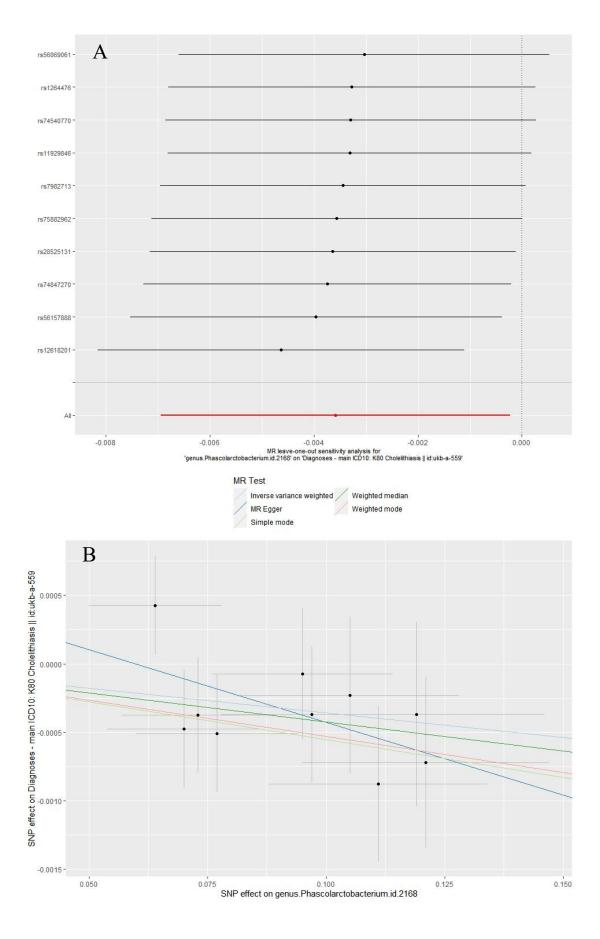


Figure S5. (A) Leave-one-out sensitivity analysis for *Genus Phascolarctobacterium* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Phascolarctobacterium* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

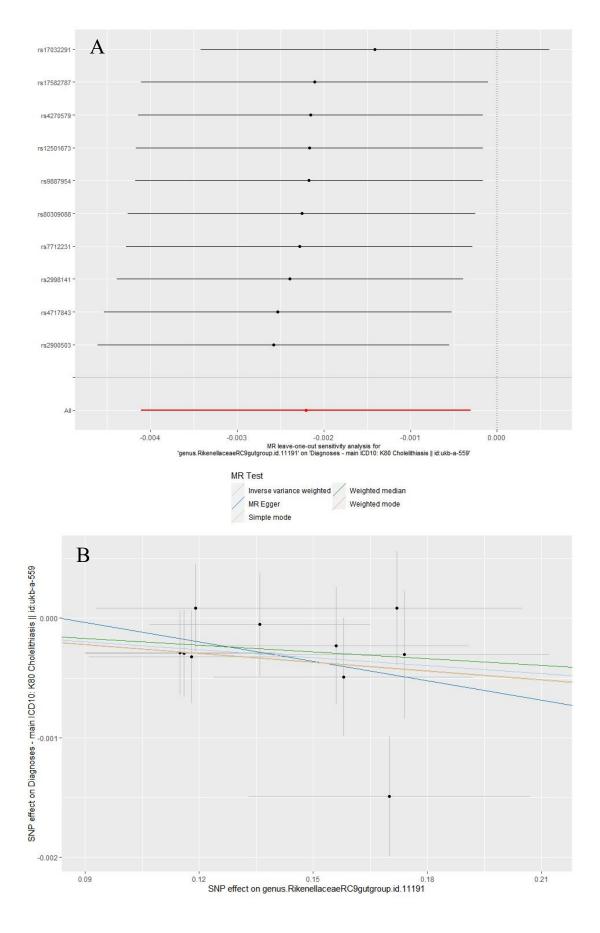


Figure S6. (A) Leave-one-out sensitivity analysis for *Genus Rikenellaceae_RC9_gutgroup* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Rikenellaceae_RC9_gutgroup* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

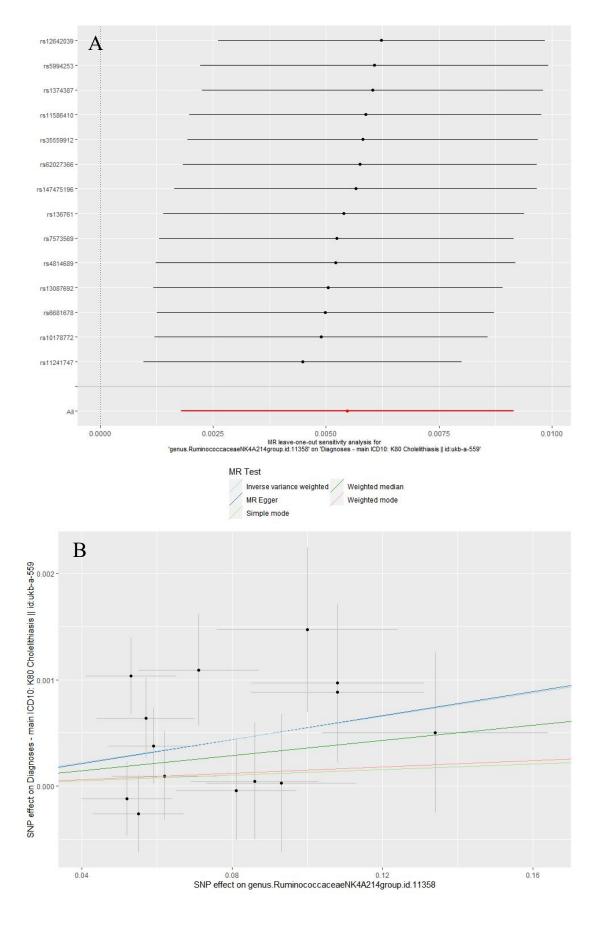


Figure S7. (A) Leave-one-out sensitivity analysis for *Genus Ruminococcaceae_NK4A214_group* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Ruminococcaceae_NK4A214_group* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

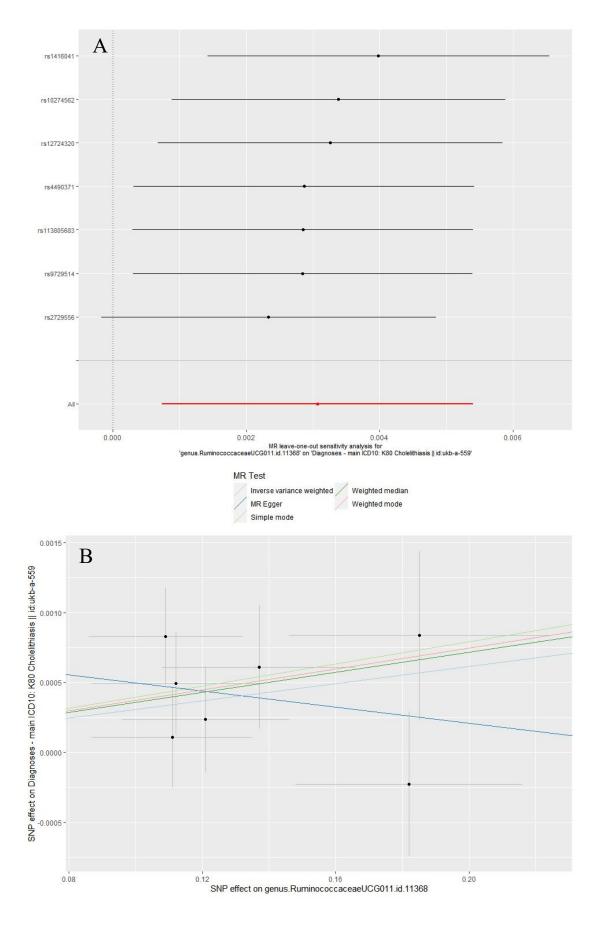


Figure S8. (A) Leave-one-out sensitivity analysis for *Genus Ruminococcaceae_UCG_011* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Ruminococcaceae_UCG_011* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.

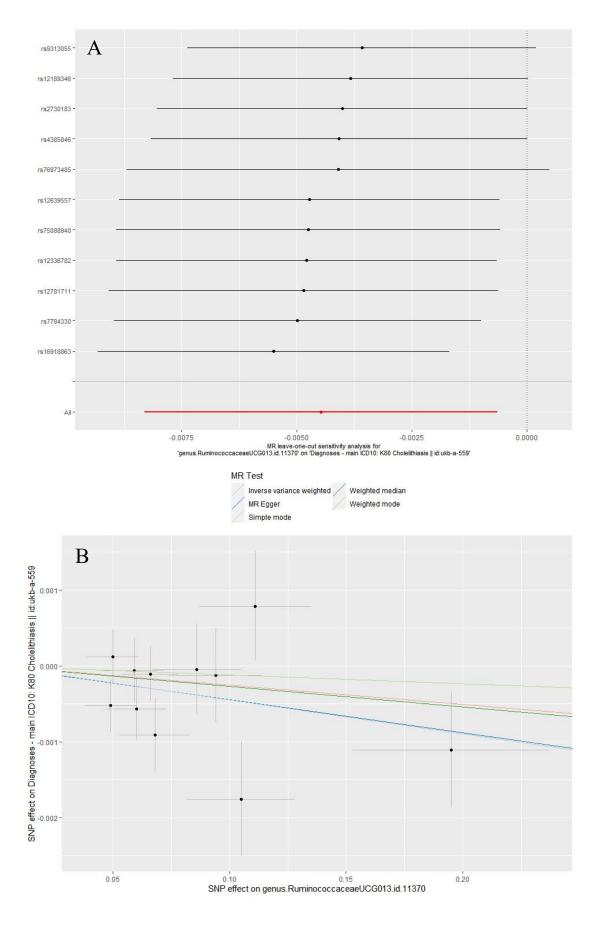


Figure S9. (A) Leave-one-out sensitivity analysis for *Genus Ruminococcaceae_UCG_013* on Cholelithiasis. (B) Scatter plots for effect sizes of SNPs for *Genus Ruminococcaceae_UCG_013* on Cholelithiasis. Abbreviations: SNP, single nucleotide polymorphism; MR-PRESSO, Mendelian randomization.