

Supplementary Figures

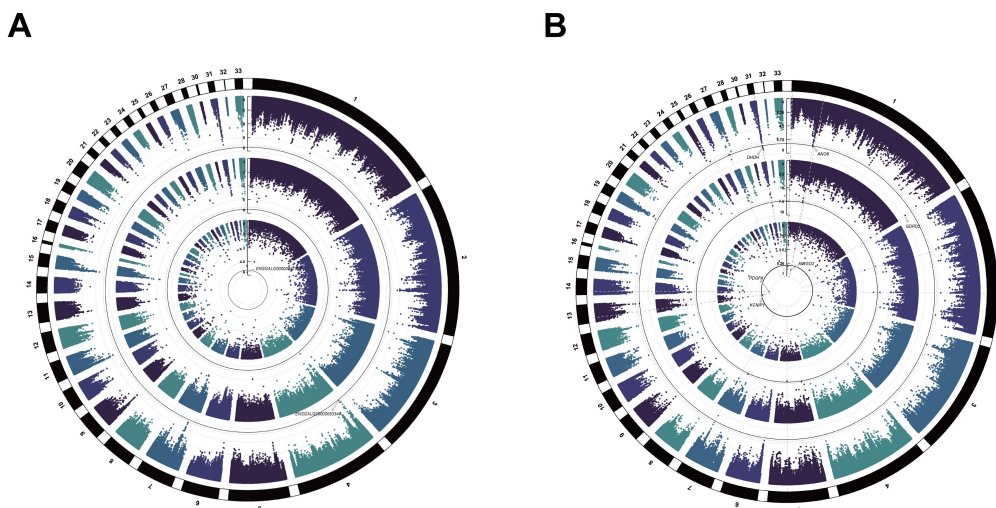
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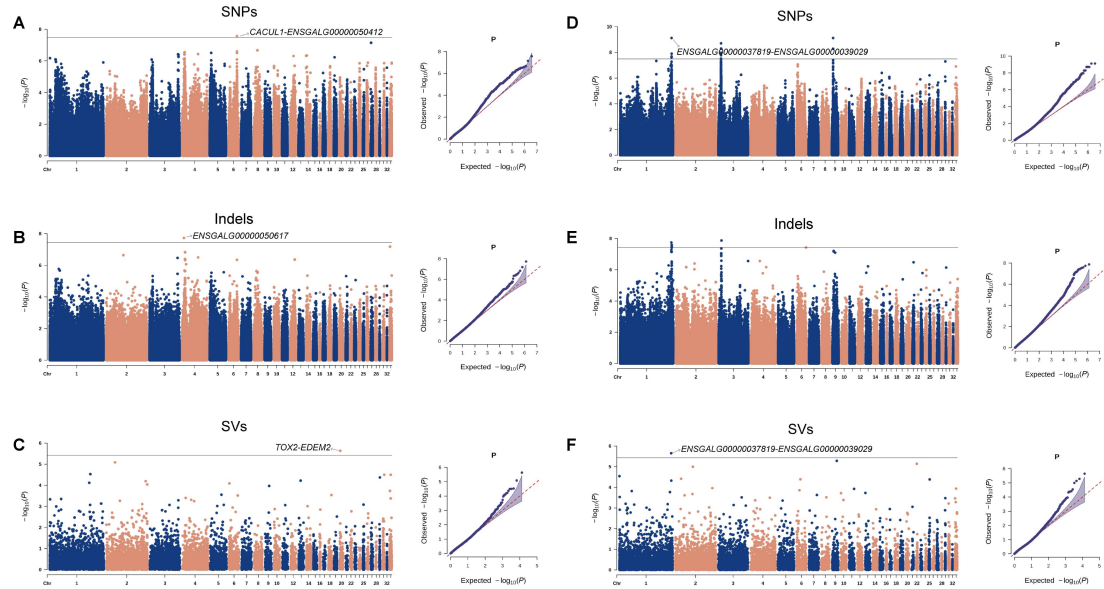
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Supplementary Fig. S1. Circular-Manhattan plot of CHOL and BG. (A) The Circular-Manhattan plot of CHOL. From the outer circle to the inner circle are the SNPs, Indels and SVs GWAS. The horizontal black solid and grey dashed lines indicate genome-wide significance and suggestive significance thresholds (for SNPs, significant and suggestive significant thresholds were 3.26 and 6.51; for Indel they were 3.76 and 7.51; for SVs the significant threshold was 5.42). (B) The Circular-Manhattan plot of BG.



Supplementary Fig. S2. mGWAS results of jejunal *Veillonellaceae* and *Neisseriaceae*. (A-C) are the Manhattan and QQ plots of the SNPs, indels and SVs mGWAS results of jejunal *Veillonellaceae*. (D-F) are the Manhattan and QQ plots of the SNPs, indels and SVs mGWAS results of jejunal *Neisseriaceae*. The horizontal black lines indicate significance thresholds.