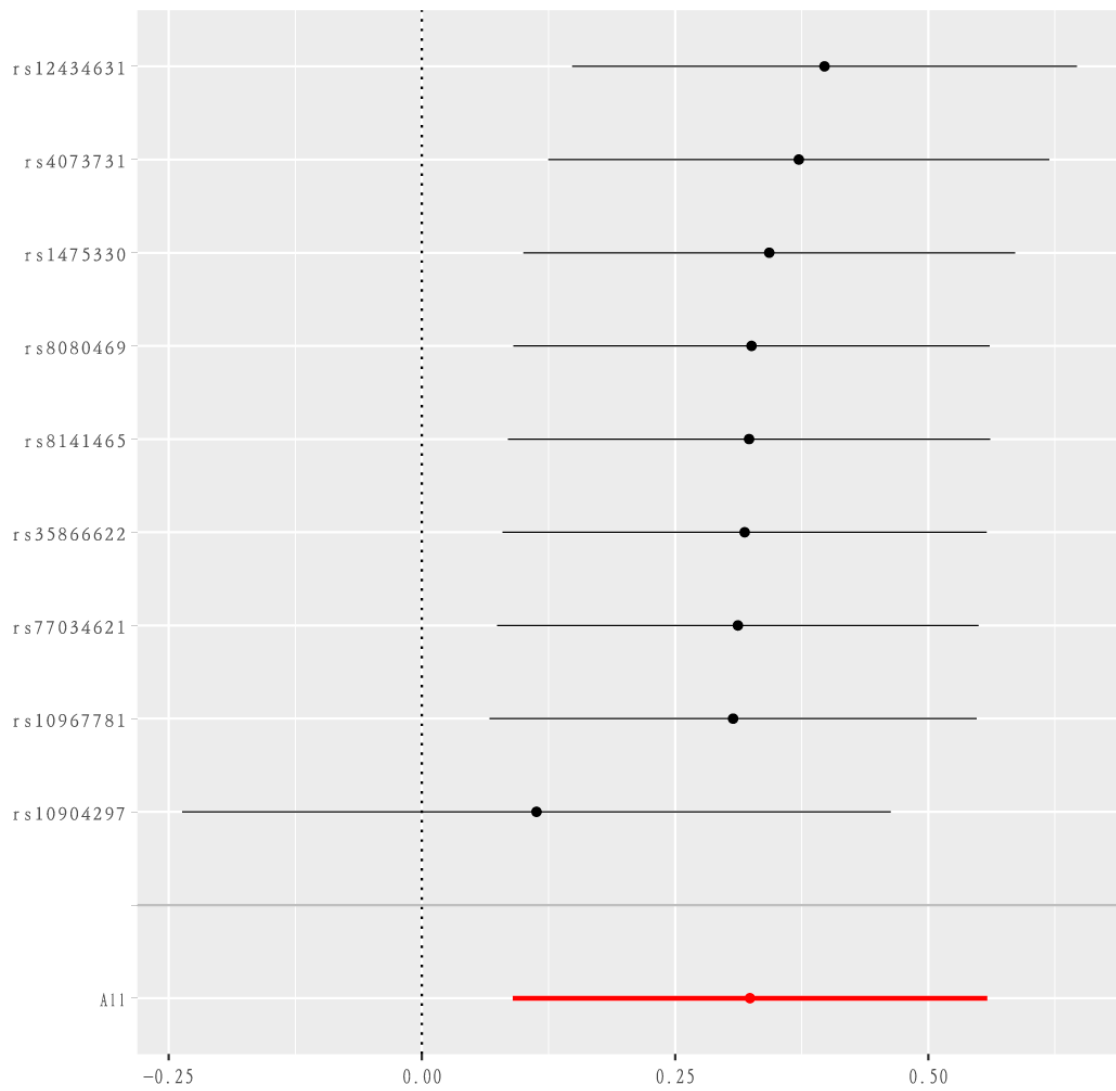


Supplementary Figure S1: Plots of leave-one-out analysis for MR estimates of the causal effect of 3-indoleglyoxylic acid on AITD.

AITD, autoimmune thyroid disease; MR, Mendelian randomization.



Supplementary Figure S2: Plots of leave-one-out analysis for MR estimates of the causal effect of *Ruminococcus torques* group on GD.

GD, Graves' disease; MR, Mendelian randomization.