

Figure S1. Schematic representation of 2SMR analysis using Bonder microbiome and Trynka CeD GWASs as exposure and outcome datasets, respectively. (a) Flowchart of step-by-step analysis: after preparing exposure data (Step 1), outcome data is extracted (Step 2), both datasets are harmonized (Step 3), and 2SMR analysis is performed (Step 4). (b) Diagram, representing the number of SNPs selected in each category (taxa, pathway, GO) after performing each step of the analysis. (c) Venndiagrams, illustrating the number of SNPs in harmonized datasets derived from Bonder vs. Dubois (orange) or Bonder vs. Trynka (purple) analyses.