Supplemental Figures

Figure S1 Host and microbial tryptophan metabolism pathways

A total of 11 tryptophan metabolites (in **Bold**) were measured in this study. This figure was adapted from Polyzos et al.¹, Badawy et al.², and Roager et al.³.

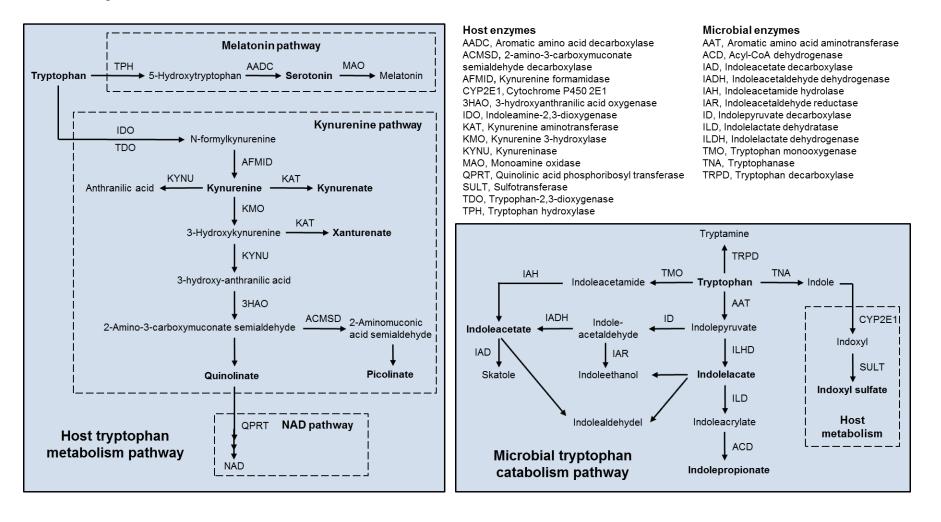


Figure S2 Correlation Heatmap among tryptophan metabolites

Data are partial Spearmen correlation coefficients (r) among tryptophan metabolites in 2821 SOL participants free of diabetes at baseline, adjusted for age, sex and field center. *P<0.05; **P<0.01; ***P<0.001.

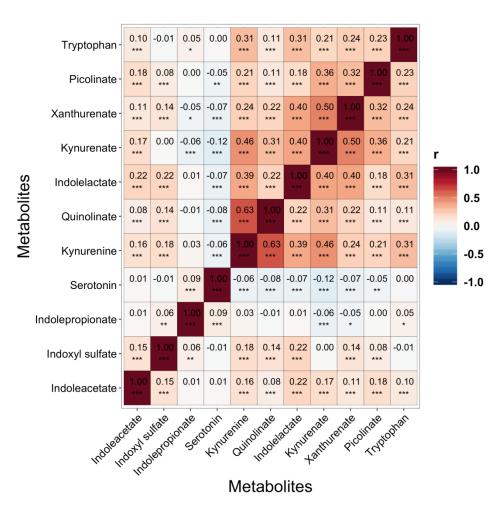


Figure S3 Correlation Heatmap between tryptophan metabolites and cardiometabolic traits Data are partial Spearmen correlation coefficients (r) between tryptophan metabolites and cardiometabolic traits in 2821 SOL participants free of diabetes at baseline, adjusted for age, sex, field center, lipid-lowering medication use and anti-hypertensive medication use. Results were similar after excluding participants with lipid-lowering medication use or anti-hypertensive medication use (data not shown). *P<0.05; **P<0.01; ***P<0.001.

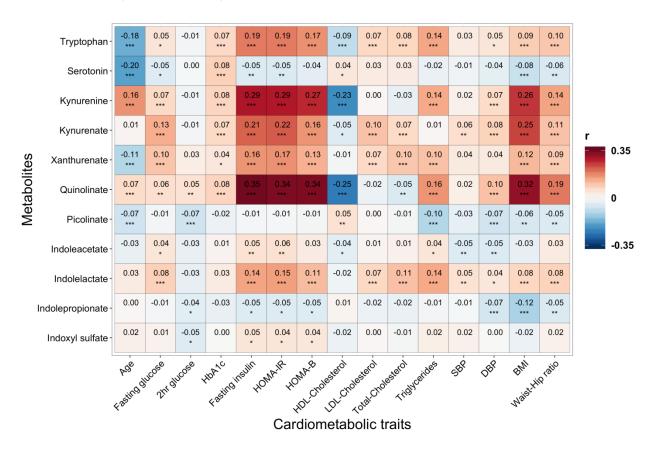
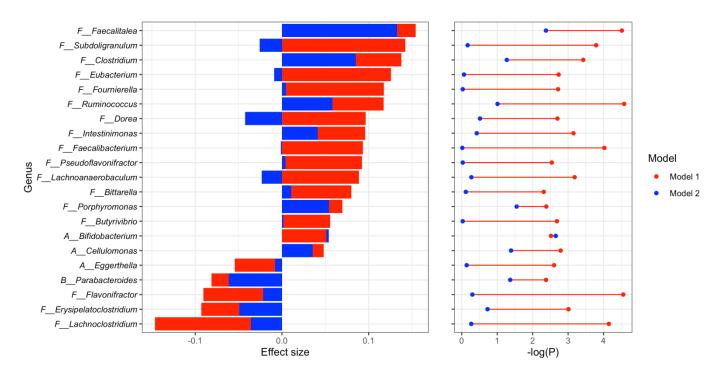


Figure S4 Associations of 22 gut bacterial genera and serum indolepropionate before and after mutual adjustment.

Model 1: adjusting for age, sex, study center, smoking, education, family income, physical activity, AHEI-2010, use of antibiotics, and use of probiotics;

Model 2 (mutual adjustment): further adjusting for other 21bacterial genera based on Model 1 (all 22 bacterial genera were included in the model simultaneously).



References

 Polyzos KA, Ketelhuth DF. The role of the kynurenine pathway of tryptophan metabolism in cardiovascular disease. An emerging field. Hamostaseologie 2015;35:128-36.
Badawy AA. Kynurenine Pathway of Tryptophan Metabolism: Regulatory and

2. Badawy AA. Kynurenine Pathway of Tryptophan Metabolism: Regulator Functional Aspects. Int J Tryptophan Res 2017;10:1178646917691938.

3. Roager HM, Licht TR. Microbial tryptophan catabolites in health and disease. Nat Commun 2018;9:3294.