

Table S7 Moderating effect of Vit E intake on the relationship between *Ruminococcus* and IL-8 level

Variables	Controlling effect					Main effect		Interaction effect	
	Age	BMI	FBG	MS	UGLU	<i>Ruminococcus</i>	Vit E	<i>Ruminococcus</i> × Vit E	
Step 1	β	0.28	0.05	-0.17	-0.09	0.09			
	t	2.18	0.43	-1.28	-0.69	0.70			
	p	0.03	0.67	0.21	0.49	0.49			
	ΔF			1.94					
	ΔR ²			0.13					
	p			0.10					
Step 2	β	0.23	-0.02	-0.24	-0.04	0.14	0.28	0.34	
	t	1.92	-0.17	-1.96	-0.36	1.11	2.57	3.06	
	p	0.06	0.86	0.06	0.72	0.27	0.01		
	ΔF						7.75		
	ΔR ²						0.17		
	p						0.00		
Step 3	β	0.21	-0.06	-0.25	-0.03	0.13	0.53	0.29	0.34
	t	1.84	-0.56	-2.10	-0.27	1.06	3.39	2.70	2.17
	p	0.07	0.58	0.04	0.79	0.30	0.00	0.01	0.03
	ΔF								4.69
	ΔR ²								0.05
	p								0.03

Abbreviations: FBG: fasting blood glucose; UGLU: urine glucose level; MS: menstrual status; BMI: body mass index