

Table S5 Moderating effect of fiber 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>	Fiber	<i>Ruminococcus</i> × Fiber	
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	0.27	0.01	-0.19	-0.01	0.12	0.35	0.17	
	t	2.33	0.07	-1.54	-0.10	1.00	3.13	1.53	
	p	0.02	0.94	0.13	0.92	0.32	0.00	0.13	
	ΔF						7.99		
	ΔR ²						0.18		
	p						0.00		
Step 3	β	0.23	0.01	-0.11	-0.01	0.04	0.27	-0.10	0.42
	t	2.02	0.07	-0.90	-0.07	0.29	2.41	-0.68	2.73
	p	0.05	0.94	0.37	0.95	0.77	0.02	0.50	0.01
	ΔF								7.44
	ΔR ²								0.08
	p								0.01

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