

Table S2: Simple and multiple linear regression analysis for PS in the whole participants.

Variables	Spearman's ρ		Model 1						Model 2					
	ρ	p-value	β	SE	Standard β	t	p-value	VIF	β	SE	Standard β	t	p-value	VIF
Carnitine	0.113	0.031	0.021	0.022	0.051	0.925	0.356	1.152	0.006	0.022	0.015	0.284	0.777	1.274
γ BB	0.197	<0.001	2.630	0.984	0.159	2.673	0.008	1.327	0.005	1.029	0.000	0.005	0.996	1.664
TMAO	-0.010	0.850	0.015	0.020	0.044	0.733	0.464	1.351	0.039	0.020	0.116	1.932	0.054	1.543
TML	0.083	0.116	-0.293	1.016	-0.017	-0.288	0.773	1.280	-2.838	1.009	-0.163	-2.812	0.005	1.447
Age	0.316	<0.001							0.122	0.025	0.262	4.886	<0.001	1.234
BMI	0.021	0.619							-0.037	0.057	-0.035	-0.647	0.518	1.223
DL	-0.047	0.371							0.373	0.389	0.050	0.958	0.339	1.174
DM	0.058	0.273							0.179	0.543	0.017	0.329	0.742	1.096
HT	0.235	<0.001							0.597	0.395	0.080	1.511	0.132	1.212
Drinker	0.084	0.108							-0.251	0.492	-0.029	-0.512	0.609	1.330
Smoker	0.019	0.718							0.329	0.908	0.018	0.363	0.717	1.074
Sex #1	0.252	<0.001							2.440	0.484	0.330	5.042	<0.001	1.839
Area #2	-0.024	0.647							-0.036	0.391	-0.005	-0.092	0.927	1.236

In Model 1, only the L-carnitine-related metabolites were included in the analysis. In Model 2, all the parameters shown in the left column were included. #1. 0=Women and 1=Men, #2. 0=Takeya and 1=Oki Island.