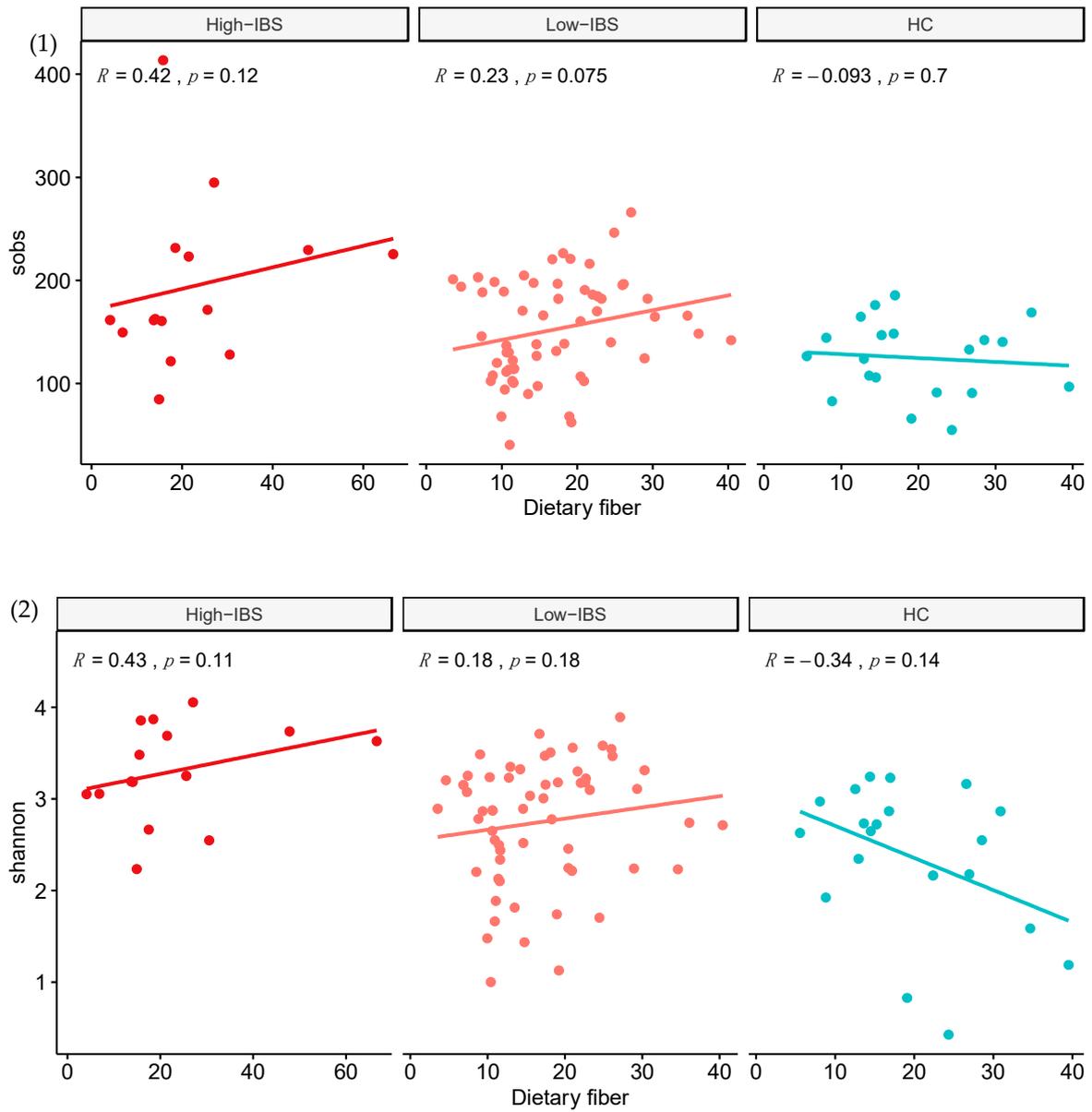
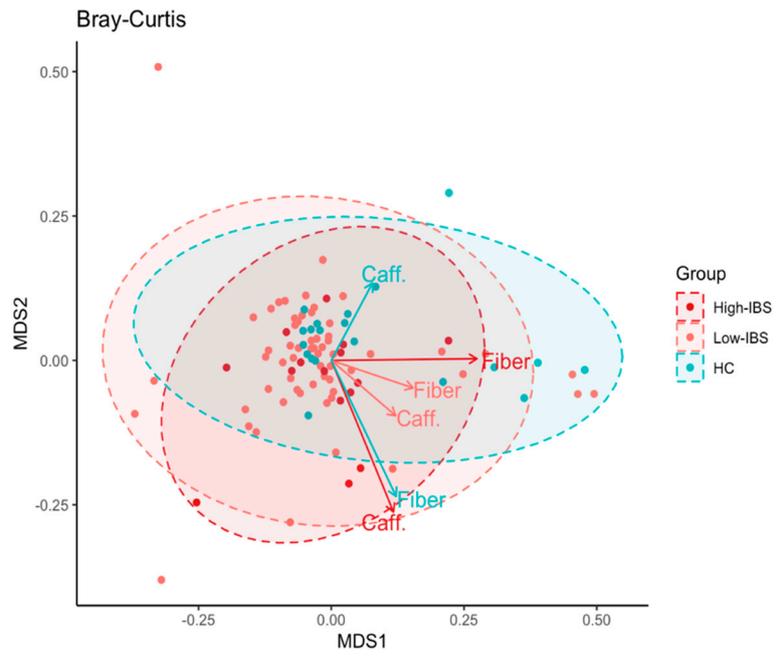


**Figure S1.** Correlation between caffeine intake and alpha diversity. (1): Correlation between total observed species (sobs) and caffeine intake. (2): Correlation between Shannon index and caffeine intake. High-IBS: Caffeine consumption more than 400 mg/day; Low-IBS: Caffeine consumption less than 400 mg/day.



**Figure S2.** Correlation between dietary fiber intake and alpha diversity. (1): Correlation between total observed species (sobs) and dietary fiber intake. (2): Correlation between total Shannon index and dietary fiber intake. High-IBS: Caffeine consumption more than 400 mg/day; Low-IBS: Caffeine consumption less than 400 mg/day.



**Figure S3.** Correlation between beta diversity and nutrient intakes in High-IBS, Low-IBS and HC groups. High-IBS: Caffeine consumption more than 400 mg/day; Low-IBS: Caffeine consumption less than 400 mg/day; Caff: caffeine, Fiber: fiber