ARTICLE

Electronic Supplementary Material (ESI) for Food & Function

Supplementary Tables

Table S1. The diagnostic results of gestational diabetes mellitus according to the hospital diagnostic criteria

Sample number	Fasting Plasma Glucose 0-5.1 mmol/L	GHbA1c 4.8-6%
1	5.19	6.7
2	4.57	6.4
3	3.06	7.8
4	5.20	7.5
5	3.28	6.1
6	5.04	6.4
7	4.52	6.9
8	3.90	6.2
9	4.69	7.0
10	4.13	6.3
11	4.27	7.7
12	3.28	6.1
13	4.21	6.2
14	4.24	6.3
15	5.44	6.0
16	3.16	6.0
17	4.92	6.7
18	7.34	7.7
19	4.22	6.0
20	3.25	6.3
21	4.40	6.1

Table S2. Pregnant woman with gestational hypertension

Sample	Arterial pressure ≥ 140 mmHg	Venous pressure ≥ 90 mmHg
22	142	95
23	142	88
24	157	103
25	144	97
26	151	94
27	132	91
28	162	111
29	165	123
30	139	91
31	141	82
32	137	90
33	138	91
34	142	86
35	184	115
36	147	93
37	153	93
38	148	95
39	145	81
40	138	95
41	150	90

Table S2. Pregnant woman with gestational hypertension
≥ 140 mmHg
≥ 90 mmHg

Table S3. Pregnant woman with dyslipidemia

Sample	TC ≥ 7.81 mmol/L	TG ≥ 4.53 mmol/L	HDL-C ≤ 2.17 mmol/L	LDL-C ≥ 4.71 mmol/L
42	8.65	8.47	1.85	4.82
43	8.15	5.67	1.74	5.13
44	9.79	3.98	2.7	5.85
45	8.76	5.68	2.23	4.87
46	7.99	4.57	1.66	4.25
47	8.06	6.57	1.92	4.21
48	7.67	5.23	1.9	3.85
49	8.01	4.93	1.91	3.58
50	8.15	5.93	2.44	3.61
51	8.87	6.97	1.62	4.84
52	10.28	5.09	1.4	4.82
53	8.26	5.32	1.72	5.21
54	10.07	6.73	1.58	4.82
55	9.39	8.57	1.95	5.42

Table S3. Pregnant woman with dyslipidemia
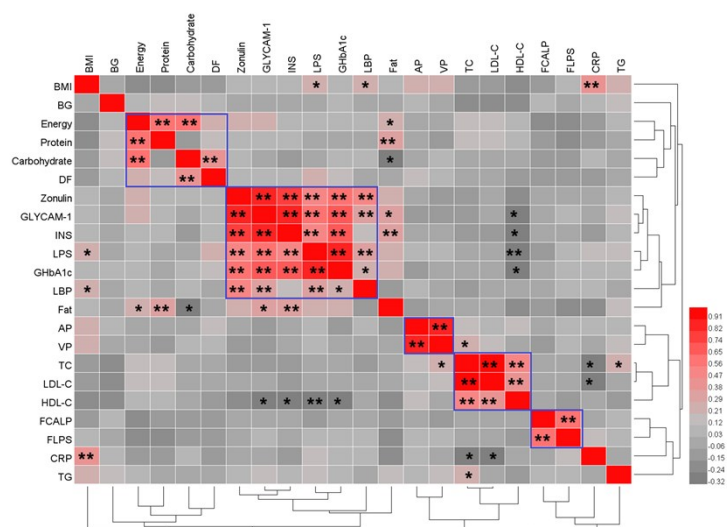
Supplementary Figures

Figure S1. Heat-map of correlation analysis of different indicators. Counts were standardized (correlation score, shown in legend) prior to unsupervised hierarchical clustering of indicators (columns and lines). The colour bar indicates the correlation of the indicators (positive correlation, red; negative correlation, grey). *, $p < 0.05$; **, $p < 0.01$ using Spearman correlation. AP: arterial pressure; BG: blood glucose; BMI: body mass index; CRP: C reactive protein; DF: dietary fibre; FCALP: fecal calprotectin; FLPS: fecal LPS; HDL-C: high-density lipoprotein cholesterol; INS: insulin; LDL-C: low-density lipoprotein cholesterol; TC: total cholesterol; TG: triglyceride; VP: venous pressure

Figure S2. Heat-map of correlation analysis of different indicators and α-diversity. Counts were standardized (correlation score, shown in legend) prior to unsupervised hierarchical clustering of indicators (columns and lines). The color bar indicates the correlation of the indicators (positive correlation, red; negative correlation, grey). *, $p < 0.05$; **, $p < 0.01$ using Spearman correlation. AP: arterial pressure; BG: blood glucose; BMI: body mass index; CRP: C reactive protein; DF: dietary fibre; FCALP: fecal calprotectin; FLPS: fecal LPS; HDL-C: high-density lipoprotein cholesterol; INS: insulin; LDL-C: low-density lipoprotein cholesterol; TC: total cholesterol; T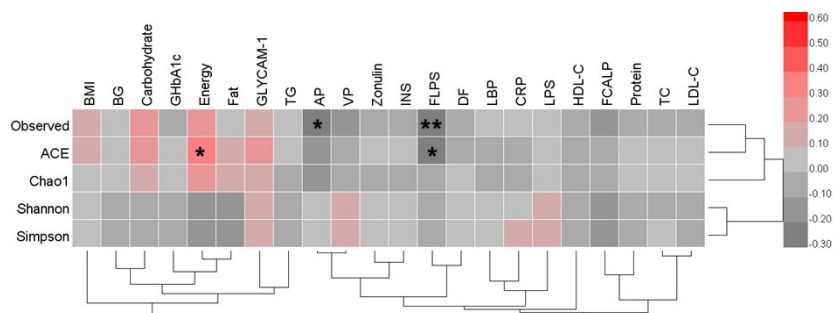G: triglyceride; VP: venous pressure.Correlation analysis of indicators with significant differences in α-diversity.