

Supplementary Table S1. Ultraprocessed food (and subclassification) included in the food-frequency questionnaire used for this study.

Ultraprocessed food groups	Food-frequency questionnaire
Dairy products	Packaged cream, smoothies, milk drinks with or without flavors, <i>petit-suisse</i> , custard, “fruit” yogurts, flan, pudding, ice-creams
Meat products	Ham, smoked bacon, chorizo, salami, mortadella, sausage, hamburger, pate, <i>foie-gras</i> , spicy sausage, black pudding mortadella and meatballs
Cereals	Packaged breakfast cereals
Pizza	Pre-prepared and ready-to-heat pizzas
Margarine	Margarine
Fried products	Potato chips and fried snacks
Cookies	Packaged cookies and chocolate cookies
Light products	Slimming products
Ready-to-eat products	Instant soups and creams, instant pasta, croquettes and powdered soups and purees
Mayonnaise	Mayonnaise sauce
Alcohol beverages	Alcoholic drinks produced by fermentation followed by distillation such as whisky, gin, rum
Pastries	Packaged buns, pre-prepared pies, prepared cakes, muffins, doughnuts, croissant or other business-type pastries, <i>churros</i> , chocolates and candies, nougat and <i>marzipan</i>
Sugar-sweetened beverages (SSB)	Sugar refreshment, carbonated drinks and packaged fruit drinks and juices

Supplementary Table S2. Baseline anthropometric and biochemical characteristic of the participant excluded for microbiota analysis (subjects who consumed between 3 and 5 servings per day of UPFs).

Variable	Subjects who consumed >3 and <5 serv/d of UPFs	Women who consumed >3 and <5 serv/d of UPFs	Men who consumed >3 and <5 serv/d of UPFs
UPF consumption (serv/ d)	4.01 ± 0.5	4.0 ± 0.4	3.8 ± 0.4
Age (y)	45 ± 1	44 ± 2	45 ± 1
Smoking	38	25	13
Alcohol habit	109	70	39
METs	24.9 ± 2.3	22.9 ± 2.2	30.6 ± 3.4
Depression prevalence	5	5	0
Anxiety prevalence	7	7	0
Energy intake (kcal)	2664 ± 98	2633 ± 88	2752 ± 101
Energy from UPFs (%)	15.1 ± 1.7	15.1 ± 1.4	14.9 ± 2.1
Adherence to MD	7.5 ± 0.4	7.3 ± 0.5	6.9 ± 0.5
BMI baseline (kg/m ²)	29.4 ± 4.8	29.2 ± 4.4	29.9 ± 4.4
Weight (kg)	80.9 ± 5.3	77.7 ± 4.8	90.3 ± 5.8
Waist circumference (cm)	96 ± 3	93 ± 3	103 ± 5
Hip circumference (cm)	108 ± 3	109 ± 4	105 ± 5
PAS (mmHg)	124 ± 2	120 ± 2	134 ± 5
PAD (mmHg)	77 ± 2	76 ± 3	82 ± 3
Fat mass (kg)	28.5 ± 6.3	28.9 ± 6.1	27.3 ± 5.5

Visceral fat mass (kg)	1.2 ± 0.4	0.9 ± 0.2	1.9 ± 0.6
Glucose (mg/dL)	94 ± 4	92 ± 3	99 ± 4
Total cholesterol (mg/dL)	212 ± 4	211 ± 6	213 ± 7
HDL-cholesterol (mg/dL)	58 ± 3	61 ± 4	48 ± 2
LDL-cholesterol (mg/dL)	68 ± 4	65 ± 4	73 ± 5
Triglycerides (mg/dL)	96 ± 6	89 ± 4	117 ± 9
ALT (U/L)	23 ± 3	18 ± 3	32 ± 6
AST (U/L)	22 ± 1	21 ± 1	25 ± 2
Insulin (mU/L)	7.4 ± 2.1	7.4 ± 1.9	7.1 ± 2.2
Adiponectin (µg/mL)	11.8 ± 4.2	13.2 ± 3.9	8.2 ± 3.0
TNF (pg/mL)	0.8 ± 0.2	0.8 ± 0.1	0.8 ± 0.2
Leptin (ng/mL)	31.1. ± 4.7	38.5 ± 5.3	11.8 ± 3.9
HOMA-IR	1.8 ± 0.2	1.7 ± 0.2	2.0 ± 0.4
CRP (µg/mL)	2.5 ± 0.3	2.6 ± 0.4	2.2 ± 0.2

Variables are expressed as means ± SE for quantitative variables and as numbers of cases for qualitative variables. Differences between groups were assessed by t-test or Mann–Whitney test (METs, glucose, adiponectin, ALT, AST, TNFa, HOMA-IR and CRP) according to the distribution of data and quantitative values variables were assessed by chi squared.

Serv/day: servings per day.

ALT: alanine aminotransferase, AST: aspartate aminotransferase, CRP: C-reactive protein, DBP: diastolic blood pressure, HDL-c: HDL cholesterol,

HOMA-IR: insulin resistance index, LDL-c : LDL cholesterol, MD: Mediterranean diet, MET: metabolic equivalent of tasks, SBP: systolic blood pressure, Serv/d :servings per day, TNF: tumor necrosis factor alpha, TSH: thyroid-stimulating hormone, UPF: ultra-processed food.

Each variable was analyzed using total UPFs consumption adjusted for BMI, age and energy intake, except differences in age, BMI, weight, energy form UPFs and total energy.

Supplementary Table S3. Non-significant bacterial taxa (FDR>0.05) analyzed by EdgeR between subjects who consumed less than 3 and more than 5 servings per day of UPFs.

	log2FC	Pvalues	FDR
Genus			
<i>Turicibacter</i>	-0.9585	0.015324	0.077896
<i>Bacteroides</i>	0.41952	0.018839	0.088398
<i>Holdemania</i>	0.52153	0.044022	0.19181
<i>Paraprevotella</i>	0.7564	0.080406	0.32699
<i>Clostridium</i>	-0.42848	0.088814	0.3386
<i>Dielma</i>	-0.59626	0.10585	0.35948
<i>Alistipes</i>	0.34515	0.10608	0.35948
<i>Bilophila</i>	0.44273	0.11546	0.3707
<i>Barnesiella</i>	-0.53665	0.13994	0.40648
<i>Acidaminococcus</i>	0.75102	0.1673	0.46387
<i>Christensenella</i>	-0.47747	0.20011	0.50986
<i>Oscillospira</i>	-0.36878	0.2006	0.50986
<i>Romboutsia</i>	0.36267	0.22457	0.53338
<i>Phascolarctobacterium</i>	0.54317	0.22734	0.53338
<i>Haemophilus</i>	-0.51229	0.24577	0.55526
<i>Catenibacterium</i>	0.56088	0.2706	0.57915
<i>Dorea</i>	-0.21554	0.2778	0.57915
<i>Blautia</i>	0.22347	0.28483	0.57915
<i>Sutterella</i>	0.51293	0.30339	0.597
<i>Butyrivibrio</i>	-0.46843	0.35303	0.67297
<i>Melainabacter</i>	-0.42192	0.42821	0.77321
<i>Parasutterella</i>	0.30209	0.43337	0.77321
<i>Adlercreutzia</i>	0.25562	0.44702	0.77321
<i>Lachnoclostridium</i>	0.15336	0.45632	0.77321
<i>Howardella</i>	0.22312	0.55574	0.91623
<i>Oscillibacter</i>	-0.095313	0.58016	0.93131
<i>Veillonella</i>	0.20519	0.61143	0.93254
<i>Peptococcus</i>	-0.15082	0.68226	0.93254
<i>Prevotella</i>	-0.18811	0.69092	0.93254
<i>Senegalemassilia</i>	0.12031	0.72999	0.93254
<i>Candidatus_Soleaferrea</i>	-0.15827	0.73814	0.93254
<i>Eubacterium</i>	-0.054164	0.7391	0.93254
<i>Catabacter</i>	-0.11038	0.76723	0.93254
<i>Anaerostipes</i>	-0.14425	0.78042	0.93254
<i>Victivallis</i>	0.1019	0.79862	0.93254
<i>Allisonella</i>	0.094404	0.80763	0.93254

<i>Ruminococcus</i>	0.052355	0.8102	0.93254
<i>Erysipelatoclostridium</i>	-0.082912	0.81323	0.93254
<i>Faecalibacterium</i>	0.039918	0.8163	0.93254
<i>Tyzzerella</i>	0.053546	0.82901	0.93254
<i>Dialister</i>	-0.10781	0.83578	0.93254
<i>Butyricimonas</i>	-0.061085	0.84922	0.93254
<i>Coproccoccus</i>	0.028656	0.85056	0.93254
<i>Odoribacter</i>	-0.038453	0.8561	0.93254
<i>Dehalobacterium</i>	-0.041268	0.88126	0.93673
<i>Fusicatenibacter</i>	-0.024237	0.89066	0.93673
<i>Streptococcus</i>	-0.029081	0.93279	0.95033
<i>Eggerthella</i>	-0.024835	0.93476	0.95033
<i>Saccharibacteria</i>	-0.0037541	1	1
Family			
Porphyromonadaceae	0.43077	0.01233	0.098636
Enterobacteriaceae	0.8612	0.056983	0.31802
Bacteroidaceae	0.31836	0.077958	0.35638
Coriobacteriaceae	0.38395	0.092938	0.37175
Rikenellaceae	0.34037	0.10461	0.37195
Desulfovibrionaceae	0.40622	0.13647	0.39261
Mogibacteriaceae	-0.45222	0.13651	0.39261
Clostridiaceae	-0.34612	0.14723	0.39261
Sutterellaceae	0.37967	0.17643	0.39751
Christensenellaceae	0.47014	0.18216	0.39751
Unclassified_Clostridiales	0.50169	0.19243	0.39751
Acidaminococcaceae	0.53209	0.19875	0.39751
Victivallaceae	0.42977	0.28631	0.53894
Pasteurellaceae	-0.43215	0.3151	0.56018
Peptostreptococcaceae	0.26329	0.35898	0.59436
Melainabacteriaceae	-0.47076	0.37147	0.59436
Lachnospiraceae	-0.13184	0.45032	0.6862
Erysipelotrichaceae	-0.16315	0.47712	0.69399
Prevotellaceae	-0.15586	0.70285	0.9309
Catabacteriaceae	-0.1143	0.74462	0.9309
Streptococcaceae	-0.10165	0.74748	0.9309
Peptococcaceae	0.098997	0.77815	0.9309
Oscillospiraceae	-0.043496	0.7869	0.9309
Rs_045	-0.057159	0.83319	0.9309
Veillonellaceae	-0.076243	0.84363	0.9309
Dehalobacteriaceae	-0.039199	0.89564	0.94042
Eubacteriaceae	-0.018218	0.91103	0.94042
Ruminococcaceae	-0.010227	0.94312	0.94312

Order			
Desulfovibrionales	0.52781	0.036221	0.19318
Enterobacterales	0.86802	0.056367	0.22547
Coriobacterales	0.41669	0.082551	0.24171
Burkholderiales	0.439	0.090643	0.24171
Bacteroidales	0.19821	0.1376	0.31451
Lactobacillales	-0.30047	0.31941	0.61108
RF32	-0.46229	0.34373	0.61108
Selenomonadales	0.18853	0.49201	0.78721
I025	-0.15417	0.55791	0.8115
Melainabacterales	-0.25078	0.63634	0.83841
Victivallales	0.16264	0.68121	0.83841
Clostridiales	0.040545	0.74484	0.83987
Erysipelotrichales	-0.033183	0.88881	0.88881
Class			
Erysipelotrichi	0.67915	0.014214	0.11371
Deltaproteobacteria	0.51205	0.044448	0.23706
Betaproteobacteria	0.43633	0.092721	0.33676
Bacteroidia	0.21163	0.10524	0.33676
Alphaproteobacteria	-0.58778	0.22564	0.54569
Coriobacteriia	0.41763	0.23874	0.54569
Bacilli	-0.28093	0.3547	0.7094
Negativicutes	0.18414	0.49786	0.79143
Melainabacteria	-0.29178	0.58098	0.79143
Gammaproteobacteria	0.16768	0.65982	0.79143
TM7_3	-0.093143	0.71412	0.79143
Erysipelotrichia	-0.081757	0.71512	0.79143
Clostridia	0.040763	0.74002	0.79143
Lentisphaeria	0.13126	0.74197	0.79143
Phylum			
Bacteroidetes	0.33027	0.021792	0.087167
Proteobacteria	0.37481	0.039947	0.10653
Firmicutes	0.1405	0.17196	0.27514
Lentisphaerae	0.18315	0.64834	0.86445
TM7	-0.066766	0.86424	0.88413
Melainabacteria	-0.078499	0.88413	0.88413

Log2FC: logarithm 2 fold change (positive value when the abundance increases in group of consumption >5 serv/d of adjusted UPFs); FDR: False Discovery Rate.

Supplementary Table S4. Non-significant bacterial taxa (FDR>0.05) analyzed by EdgeR between women who consumed less than 3 and more than 5 servings per day of UPFs.

	log2FC	Pvalues	FDR
Genus			
<i>Oxalobacter</i>	1.1599	0.026612	0.14924
<i>Streptococcus</i>	-0.75635	0.028426	0.14924
<i>Veillonella</i>	-0.89863	0.053702	0.24894
<i>cc_115</i>	0.72805	0.057862	0.24894
<i>Saccharibacteria</i>	-0.5763	0.059271	0.24894
<i>Collinsella</i>	0.64797	0.068954	0.27151
<i>Romboutsia</i>	-0.56988	0.088614	0.32839
<i>Turicibacter</i>	-0.75866	0.1167	0.39181
<i>Roseburia</i>	-0.49312	0.1182	0.39181
<i>Bilophila</i>	0.53146	0.12438	0.39181
<i>Christensenella</i>	-0.71317	0.13841	0.41522
<i>Catabacter</i>	-0.59923	0.19195	0.53651
<i>Catenibacterium</i>	0.81834	0.20079	0.53651
<i>Peptococcus</i>	-0.59068	0.20863	0.53651
<i>Victivallis</i>	0.61617	0.21463	0.53651
<i>Blautia</i>	-0.31129	0.22142	0.53651
<i>Eggerthella</i>	-0.5123	0.23518	0.54875
<i>Butyricimonas</i>	-0.4532	0.25347	0.5703
<i>Barnesiella</i>	-0.51035	0.26282	0.57096
<i>Holdemania</i>	0.37302	0.27495	0.57226
<i>Clostridium</i>	-0.34033	0.28159	0.57226
<i>Erysipelatoclostridium</i>	-0.45978	0.29973	0.58028
<i>Granulicatella</i>	0.35219	0.31062	0.58028
<i>Fusicatenibacter</i>	-0.22922	0.31317	0.58028
<i>Prevotella</i>	-0.53648	0.3332	0.59976
<i>Lachnoclostridium</i>	-0.24522	0.34538	0.60441
<i>Eubacterium</i>	-0.19001	0.38745	0.64532
<i>Haemophilus</i>	-0.43256	0.38924	0.64532
<i>Alistipes</i>	0.21102	0.40155	0.64866
<i>Howardella</i>	0.3927	0.41615	0.65544
<i>Faecalibacterium</i>	-0.17142	0.43802	0.67306
<i>Tyzzerella</i>	0.23234	0.49425	0.74138
<i>Oscillospira</i>	-0.22238	0.53015	0.75435
<i>Sutterella</i>	-0.36089	0.54093	0.75435
<i>Dielma</i>	-0.26119	0.55393	0.75435
<i>Ruminococcus</i>	0.15226	0.5652	0.75435

<i>Dorea</i>	-0.13408	0.57474	0.75435
<i>Coprococcus</i>	-0.12733	0.6088	0.78274
<i>Dialister</i>	-0.2692	0.66481	0.83173
<i>Candidatus_Soleaferrea</i>	-0.24139	0.67331	0.83173
<i>Paraprevotella</i>	0.16165	0.75975	0.89631
<i>Parasutterella</i>	0.14444	0.76043	0.89631
<i>Odoribacter</i>	0.080339	0.77325	0.89631
<i>Allisonella</i>	-0.12495	0.78258	0.89631
<i>Rothia</i>	0.085236	0.81035	0.89631
<i>Phascolarctobacterium</i>	0.14786	0.81095	0.89631
<i>Adlercreutzia</i>	-0.070147	0.84896	0.92214
<i>Bacteroides</i>	0.034011	0.86858	0.92746
<i>Oscillibacter</i>	0.016785	0.94016	0.98717
<i>Senegalemassilia</i>	-0.0060053	0.98676	1
<i>Anaerostipes</i>	-0.003831	0.9914	1
<i>Dehalobacterium</i>	-0.0081582	1	1
Family			
Lactobacillaceae	1.5095	0.00091988	0.058901
Melainabacteriaceae	-2.0743	0.0017001	0.058901
Oxalobacteraceae	1.4027	0.0060622	0.05968
Enterobacteriaceae	1.4804	0.0070211	0.05968
Bifidobacteriaceae	0.93625	0.013598	0.092463
Streptococcaceae	-0.79126	0.017924	0.10157
Victivallaceae	0.97609	0.05227	0.25388
Rs_045	-0.56548	0.063949	0.27178
Unclassified_Clostridiales	0.79644	0.10983	0.37554
Porphyromonadaceae	0.34068	0.11045	0.37554
Peptostreptococcaceae	-0.50465	0.12475	0.3856
Mogibacteriaceae	-0.49315	0.22417	0.53536
Prevotellaceae	-0.57496	0.23548	0.53536
Desulfovibrionaceae	0.40042	0.23619	0.53536
Eubacteriaceae	-0.23726	0.25525	0.5424
Veillonellaceae	-0.45428	0.33539	0.62624
Acidaminococcaceae	0.53468	0.34327	0.62624
Erysipelotrichaceae	-0.28425	0.35528	0.62624
Catabacteriaceae	-0.39774	0.36838	0.62624
Carnobacteriaceae	0.26948	0.45145	0.73091
Coriobacteriaceae	0.20949	0.48316	0.7467
Clostridiaceae	-0.1959	0.50902	0.75246
Christensenellaceae	0.22884	0.61102	0.80633
Rikenellaceae	0.11654	0.63187	0.80633
Peptococcaceae	-0.22577	0.63984	0.80633

Bacteroidaceae	-0.097746	0.64412	0.80633
Pasteurellaceae	-0.20829	0.6692	0.80633
Ruminococcaceae	-0.068439	0.68775	0.80633
Lachnospiraceae	-0.071681	0.73806	0.83647
Micrococcaceae	0.081688	0.81698	0.88888
Oscillospiraceae	-0.041361	0.83659	0.88888
Sutterellaceae	-0.055242	0.86409	0.89027
Dehalobacteriaceae	0.018086	0.959	0.959
Order			
Desulfovibrionales	0.7387	0.021049	0.097433
Melainabacteriales	-1.467	0.022926	0.097433
Lactobacillales	-0.61157	0.055204	0.1877
Victivallales	0.83628	0.092873	0.22555
Pasteurellales	-0.78417	0.1066	0.22652
I025	-0.44448	0.12342	0.23312
Burkholderiales	0.34639	0.2379	0.40443
Coriobacteriales	0.30225	0.34814	0.53803
RF32	0.39065	0.517	0.69192
Selenomonadales	0.2215	0.58232	0.69192
Clostridiales	0.089626	0.58953	0.69192
Actinomycetales	0.16548	0.61052	0.69192
Bacteroidales	-0.049846	0.73699	0.78305
Erysipelotrichales	-0.042592	0.89137	0.89137
Class			
Bacilli	-0.89177	0.0068279	0.10149
Melainabacteria	-1.5129	0.018562	0.10149
Actinobacteria	0.73916	0.01903	0.10149
?	-0.49273	0.029949	0.11979
Deltaproteobacteria	0.63639	0.043222	0.13831
TM7_3	-0.56296	0.056301	0.15013
Lentisphaeria	0.68928	0.16416	0.37022
Gammaproteobacteria	0.60013	0.18511	0.37022
Erysipelotrichi	0.47926	0.21793	0.38743
Bacteroidia	-0.11134	0.42999	0.68798
Alphaproteobacteria	0.35687	0.55182	0.73853
Coriobacteriia	0.24621	0.6056	0.73853
Betaproteobacteria	0.14647	0.62249	0.73853
Negativicutes	0.1804	0.64621	0.73853
Erysipelotrichia	-0.084652	0.78153	0.83363
Clostridia	-0.001766	0.99002	0.99002
Phylum			
Proteobacteria	0.49245	0.019688	0.078751

CyanobacteriaMelainabacteria	-1.2146	0.053858	0.1275
Lentisphaerae	0.88548	0.079689	0.1275
TM7	-0.3794	0.27973	0.37298
Firmicutes	0.11117	0.44425	0.50772
Bacteroidetes	0.087331	0.64113	0.64113

Log2FC: logarithm 2 fold change (positive value when the abundance increases in group of consumption >5 serv/d of adjusted UPFs); FDR: False Discovery Rate.

Supplementary Table S5. Non-significant bacterial taxa (FDR>0.05) analyzed by EdgeR between women who consumed less than 3 and more than 5 servings per day of UPFs.

	log2FC	Pvalues	FDR
Genus			
<i>Bacteroides</i>	1.0775	0.0033593	0.05207
<i>Romboutsia</i>	1.5112	0.0057909	0.071807
<i>Gemmiger</i>	1.3974	0.0093589	0.08904
<i>Clostridium</i>	-1.1993	0.010053	0.08904
<i>Lactobacillus</i>	1.2702	0.013103	0.10154
<i>Lachnoclostridium</i>	0.91369	0.015553	0.10715
<i>Oscillospira</i>	-1.1448	0.029235	0.18125
<i>Turicibacter</i>	-1.5627	0.034899	0.18275
<i>Paraprevotella</i>	1.5486	0.035371	0.18275
<i>Sutterella</i>	1.7487	0.041707	0.18563
<i>Parabacteroides</i>	0.8396	0.043611	0.18563
<i>Adlercreutzia</i>	0.96408	0.047993	0.18563
<i>Eggerthella</i>	1.0868	0.048994	0.18563
<i>Veillonella</i>	1.4308	0.052106	0.18563
<i>Saccharibacteria</i>	0.93266	0.053892	0.18563
<i>Streptococcus</i>	1.1053	0.076648	0.25012
<i>Butyrivimonas</i>	0.80558	0.11302	0.32053
<i>Phascolarctobacterium</i>	1.2254	0.11782	0.32053
<i>Melainabacter</i>	1.2892	0.11895	0.32053
<i>Roseburia</i>	-0.67942	0.1233	0.32053
<i>Dielma</i>	-1.085	0.12484	0.32053
<i>Alistipes</i>	0.63498	0.13349	0.32053
<i>Bifidobacterium</i>	0.84769	0.13591	0.32053
<i>Faecalibacterium</i>	0.4955	0.13959	0.32053
<i>Holdemania</i>	0.5913	0.15862	0.34916
<i>Oscillibacter</i>	-0.49912	0.16332	0.34916
<i>Erysipelatoclostridium</i>	0.77414	0.17959	0.37114
<i>Collinsella</i>	0.60807	0.1908	0.37424
<i>Victivallis</i>	-0.91643	0.19664	0.37424

<i>Peptococcus</i>	0.69652	0.19919	0.37424
<i>Butyrivibrio</i>	-1.2023	0.21789	0.39362
<i>Anaerofilum</i>	-0.59333	0.22379	0.39362
<i>Parasutterella</i>	0.80402	0.23408	0.39362
<i>Fusicatenibacter</i>	0.41973	0.2349	0.39362
<i>Allisonella</i>	0.75112	0.25832	0.41868
<i>Catabacter</i>	0.71895	0.26628	0.41868
<i>Coproccoccus</i>	0.38566	0.27011	0.41868
<i>Barnesiella</i>	-0.69812	0.28288	0.42776
<i>cc_115</i>	0.45153	0.30856	0.45549
<i>Howardella</i>	-0.55704	0.37711	0.53138
<i>Lachnospira</i>	-0.52758	0.38963	0.53682
<i>Eubacterium</i>	0.25393	0.40694	0.54848
<i>Christensenella</i>	-0.45065	0.42013	0.55422
<i>Odoribacter</i>	-0.32269	0.43706	0.55845
<i>Prevotella</i>	0.57413	0.45387	0.55845
<i>Tyzzera</i>	-0.31617	0.45715	0.55845
<i>Dorea</i>	-0.32525	0.45937	0.55845
<i>Haemophilus</i>	-0.42298	0.6458	0.77
<i>Ruminococcus</i>	-0.18363	0.7101	0.81193
<i>Oxalobacter</i>	0.20183	0.71997	0.81193
<i>Catenibacterium</i>	0.27376	0.72054	0.81193
<i>Bilophila</i>	-0.19793	0.73552	0.81193
<i>Dehalobacterium</i>	-0.15799	0.74645	0.81193
<i>Acidaminococcus</i>	-0.24665	0.84189	0.8975
<i>Shigella</i>	-0.18959	0.85407	0.8975
<i>Senegalemassilia</i>	-0.097961	0.87489	0.90405
<i>Candidatus_Soleaferrea</i>	-0.13671	0.89148	0.9061
<i>Dialister</i>	-0.015896	0.97884	0.97884
Family			
Lactobacillaceae	1.1979	0.019354	0.12774
Sutterellaceae	1.0788	0.031387	0.17263
Streptococcaceae	1.1179	0.061828	0.29147
Rs_045	0.85885	0.084824	0.34671
Rikenellaceae	0.67804	0.099021	0.34671
Victivallaceae	-1.1177	0.11676	0.34671
Acidaminococcaceae	1.0686	0.11945	0.34671
Mogibacteriaceae	-0.73076	0.14002	0.34671
Porphyromonadaceae	0.4804	0.14039	0.34671
Peptococcaceae	0.77571	0.14709	0.34671
Bifidobacteriaceae	0.7356	0.20177	0.42339
Melainabacteriaceae	1.0346	0.20528	0.42339

Oscillospiraceae	-0.36413	0.24547	0.4765
Coriobacteriaceae	0.41467	0.32183	0.55897
Eubacteriaceae	0.2455	0.39131	0.61839
Unclassified_Clostridiales	-0.54135	0.39352	0.61839
Veillonellaceae	0.45727	0.44057	0.64482
Catabacteriaceae	0.46558	0.46124	0.64482
Prevotellaceae	0.47354	0.46896	0.64482
Pasteurellaceae	-0.55507	0.52258	0.6898
Dehalobacteriaceae	-0.30958	0.54355	0.68989
Desulfovibrionaceae	-0.29439	0.58003	0.70893
Lachnospiraceae	-0.17727	0.6289	0.7412
Enterobacteriaceae	-0.40133	0.66732	0.75936
Erysipelotrichaceae	-0.12451	0.7537	0.82907
Christensenellaceae	0.13457	0.79082	0.84184
Ruminococcaceae	0.059968	0.82563	0.85143
Oxalobacteraceae	0.034598	0.94168	0.94168
Order			
Bacteroidales	0.72169	0.004629	0.074064
RF32	-2.0138	0.025623	0.20498
Burkholderiales	0.98587	0.042474	0.22653
Pasteurellales	-1.528	0.06967	0.27868
Lactobacillales	0.90133	0.12486	0.29254
Selenomonadales	0.72029	0.12798	0.29254
Bifidobacteriales	0.76186	0.18018	0.36037
Melainabacteriales	0.97117	0.24006	0.40363
Victivallales	-0.80195	0.25227	0.40363
I025	0.49588	0.28013	0.40747
Coriobacteriales	0.2784	0.4627	0.58066
Enterobacteriales	-0.6578	0.47179	0.58066
Desulfovibrionales	-0.29296	0.55177	0.63059
Clostridiales	-0.11624	0.61814	0.65935
Erysipelotrichales	-0.073674	0.8724	0.8724
Class			
Alphaproteobacteria	-2.3022	0.010586	0.084685
Betaproteobacteria	1.0111	0.032476	0.16507
Actinobacteria	0.94971	0.041611	0.16507
Erysipelotrichi	0.63456	0.099874	0.26633
Negativicutes	0.71439	0.12473	0.2851
TM7_3	0.64797	0.15297	0.28683
Bacilli	0.80048	0.16134	0.28683
Lentisphaeria	-0.74606	0.28617	0.45788
Melainabacteria	0.81705	0.31486	0.45798

Gammaproteobacteria	-0.70793	0.36542	0.48723
Deltaproteobacteria	-0.25603	0.62015	0.76326
Coriobacteriia	0.15831	0.75642	0.86448
Erysipelotrichia	-0.047767	0.9211	0.94883
Clostridia	0.012021	0.94883	0.94883
Phylum			
Actinobacteria	0.89132	0.032458	0.12983
Lentisphaerae	-1.3896	0.051135	0.13636
CyanobacteriaMelainabacteria	1.1834	0.15378	0.30755
TM7	0.57946	0.20678	0.32011
Firmicutes	0.16061	0.24009	0.32011
Proteobacteria	0.32024	0.32597	0.37253

Log2FC: logarithm 2 fold change (positive value when the abundance increases in group of consumption >5 serv/d of adjusted UPFs); FDR: False Discovery Rate.