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Effect of probiotic yoghurt on animal-based diet-induced change in gut microbiota: an open, randomised, parallel-group study

T. Odamaki, K. Kato, H. Sugahara, J.Z. Xiao, F. Abe and Y. Benno

Table S1. Ingredient lists for animal-based diet period.

Category	Class	Food Item	Energy(kcal)	Protein(g)	Fat(g)	Fiber(g)
(A) For breakfast[1]						
	Eggs	A scrambled egg	113	6.5	9.0	0.0
		A sunny side up egg	113	6.5	9.0	0.0
		A boiled egg	76	6.5	5.0	0.0
		A rolled egg	76	5.4	4.5	0.0
		A poached egg	76	6.5	5.0	0.0
	Meat substitute	Canned beef 50g	102	9.9	6.5	0.0
		Frankfurter 60g	179	7.6	14.8	0.0
		Bacon 60g	71	2.3	6.8	0.0
		Ham 60g	117	9.9	8.1	0.0
		Sausage 60g	80	13.3	7.1	0.0
(B) For lunch and dinner[2].						
Main menu	Beef	Hamburger 120g	268	15.9	16.0	0.0
		Beef stew 200g	236	12.0	14.4	0.0
		Meat sause 1 can	298	11.2	14.7	0.0
		Sirloin steak 150g	747	17.5	71.3	0.0
		Fired meat 85g	222	25.0	25.3	0.0
	Pork	Meat loaf 100g	415	27.4	25.5	0.0
		Ginger pork 220g	332	24.0	24.4	0.0
		Sparerib 200g	212	7.1	17.3	0.0
		Mapo doufu	241	18.0	14.8	0.0
		Pork cutlets 200g	486	21.4	36.3	0.0
		Stir-fried pork liver 220g	282	44.8	7.4	0.0
		Pork fillet cutlet 200g	240	20.1	12.5	0.0
		Meat ball 210g	422	22.3	26.9	0.0
		Pork steak 200g	481	22.8	35.1	0.0
		Pork chop 200g	487	29.7	34.1	0.0
		Pork kakuni 260g	603	19.5	46.7	0.0
		Pork saute 200g	298	21.4	22.2	0.0
	Chicken	Teriyaki chicken 220g	469	37.9	37.7	0.0
		Herb roasted chicken 220g	449	37.9	37.7	0.0
		Chicken steamed with sake 221g	380	25.4	27.1	0.0
		Chicken saute 220g	449	37.9	37.7	0.0
		Yu Lin Chi 200g	965	45.8	68.7	0.0
		White meat cutlet 100g	205	19.8	11.4	0.0
		Tandoori chicken 156.5g	177	20.5	7.1	0.0
Sub-menu	Beef	Roast beef 60g	118	13.0	7.0	0.0
		Grilled bone-less short rib 80g	363	10.0	34.1	0.0
	Pork	Chinese-style barbecued pork 80g	138	15.5	6.6	0.0
		Shumai 5pieces (15g per 1pieces)	172	7.4	9.0	0.0
	Chicken	Fried chicken 3 picies	345	17.3	29.1	0.0
		Yakitori (Grilled chicken) 6 sticks	419	40.4	23.7	0.1
		Chukune (Japanese chicken meat ball) 1 stick	108	6.0	5.8	0.0
		Gizzard 1 stick	37.5	7.3	0.7	0.0
		Fried chicken wing 3 pieces	512	26.5	35.8	0.0
		Fried chicken with bone 1 bone	262	14.8	16.7	0.0

[1]Subjects comsumed a combination of one egg menu and 100g meat substitutes for breakfast

[2]Subjects comsumed one main food item with ~100g sub items. Otherwise, subjects consumed 150~200g sub items.

Table S2. List of permitted foods during ainmal-based diet period.

Class	Food items
Meat	Beef
	Pork
	Chicken
	Giblets
Meat substitute	Ham
	Wiener sausage
	Bacon
	Raw ham
Egg	Egg
	Quail's egg
Oil for cooking	Olive oil
	Salad oil
	Sesam oil
Fruit juice	Fruit juice
Favorite food	Candy
	Caramel
	Marshmallow
	Jerry Cofee
	Tea
	Herb tea
Seasoning agent	Soy sauce
	Acetic acid
	Mayonnaise
	Dressing
	Spice
	Oil
	Mirin (Seasoning liquor)
	Consomme
	Soup stock

Table S3. List of prohibited foods during animal-based diet period.

Class	Food Items
Staple diet	Pasta, macaroni
	Rice
	Bread
	Noodle (Udon, Soba, Chinese noodle)
Supplement	Health food, Food with Health Claims
Fibre	Vegetable
	Sea weed
	Fruit
	Mushroom
	Nut
	Sesami
	Sweet potato
Fermented food	Natto
	Miso, Miso soup
	Salt-marinated rice malt,
	Shouyu-marinated rice malt
Drink	FOSHU product[1]
	Beverage containing of probiotics

[1] Food for Specified Health Uses (FOSHU) product

Table S4. Ingredient lists for balanced diet.[1]

Main dishes (boxed lunch delivery)	time	Energy (kcal)	Protein (g)	Fat (g)	Carbohydrate (g)	Fiber (g)
Boiled horse mackerel with chop suey	breakfast	205	15.0	3.9	27.2	3.8
Spicy taste fried horse mackerel	lunch	235	16.4	10.4	18.9	3.1
Fried chicken with sweet and sour sauce	dinner	442	19.7	22.0	39.8	2.6
Chicken cream stew	breakfast	316	12.5	17.5	27.5	5.5
Shrimps with chilli sauce	lunch	266	10.1	12.5	27.9	3.0
Simmered hairtail with ginger sauce	dinner	396	17.3	27.3	17.0	2.6
Marinated salmon	breakfast	289	17.8	14.3	20.9	2.5
Pork cutlet with egg drop soup	lunch	415	15.1	19.2	46.1	4.3
Chicken simmered in wine	dinner	331	19.7	16.5	23.9	3.7
Chop suey	breakfast	303	11.5	18.1	22.5	3.7
Flat fish simmered w. grated white radish	lunch	264	19.7	9.4	24.4	3.4
Tofu hamburger	dinner	242	14.5	9.9	24.9	5.8
Simmered meat and potatoes	breakfast	264	10.0	9.7	33.9	5.3
Five vegetables curry	lunch	330	12.9	17.7	29.7	4.6
Chinese eggplant with garlic sauce	dinner	285	6.6	19.5	20.9	4.0

[1]Subjects chose a set of main dishes *ad libitum* for each day during balanced diet period and consumed it with one or two bowl of rice (160~320g) at each meal. After 5 days passed, subjects kept the same rotation with 5 sets of menus.

Table S5. HS-CRP[1], serotonin and MC-FAN[2]. values of subjects during the intervention.

parameter	day	YAB group (n=11)			*P*[3]	YB group (n=10)			*P*	CTR group (n=10)			*P*	*P*(ANCOVA+Bonferroni)[4] YAB vs YB	YAB vs CTR	YB vs CTR
HS-CRP (mg/dl)	-7	0.07	±	0.14 [5]	-	0.05	±	0.06	-	0.02	±	0.01	-			
	5	0.03	±	0.04	0.44	0.04	±	0.04	0.32	0.06	±	0.15	0.36	1.00	1.00	1.00
	19	0.02	±	0.03	0.34	0.03	±	0.03	0.27	0.02	±	0.02	0.73	1.00	1.00	0.95
serotonin (ng/ml)	-7	127.64	±	33.07	-	169.60	±	64.42	-	155.51	±	65.74	-			
	5	123.64	±	32.35	0.09	158.14	±	47.12	0.27	147.28	±	55.13	0.36	1.00	1.00	1.00
	19	127.53	±	30.48	0.98	164.00	±	43.92	0.54	149.20	±	57.29	0.38	1.00	1.00	1.00
MC-FAN (sec)	-7	44.76	±	10.65	-	52.40	±	18.83	-	52.78	±	10.85	-			
	5	44.02	±	4.84	0.83	48.36	±	17.60	0.61	54.64	±	16.80	0.77	1.00	0.58	1.00
	19	42.88	±	4.66	0.61	44.63	±	5.13	0.22	44.54	±	4.35	0.12	1.00	1.00	1.00

[1] HS-CRP: High-sensitivity C-reactive protein

[2] MC-FAN: Micro Channel array Flow Analyzer.

[3] Intra-group differences from baseline were compared by a paired Student's t test, **P*<0.05

[4] Inter-group differences were compared by ANCOVA adjusted for each data at day -7(baseline) followed by a post hoc Bonferroni test

[5] Mean ± SD (all such values).

YAB, subjects ingested yoghurt during the periods of animal-based diet and balanced diet; YB, subjects ingested yoghurt during the periods of balanced diet; CTR, control

Table S6. Blood parameters for the safety evaluation during the intervention.

parameter	normal range	day	YAB group (n=11)	P [1]	YB group (n=10)	P	CTR group (n=10)	P
white blood cell count	3300-9000 /μl	-7	5018 ± 1593 [2]		5760 ± 1704		6060 ± 1092	
		3	5018 ± 839	1.00	5630 ± 1548	0.73	5570 ± 1059	0.10
		5	5964 ± 2301	0.10	4980 ± 1434	0.01 *	5720 ± 950	0.47
		19	4882 ± 695	0.74	5850 ± 1338	0.80	5800 ± 1131	0.41
red blood cell count	M:430-570 ×10^4/μl F:380-500 ×10^4/μl	-7	436 ± 34		428 ± 68		460 ± 38	
		3	440 ± 36	0.23	447 ± 67	0.00 *	458 ± 36	0.71
		5	447 ± 38	0.10	433 ± 66	0.37	456 ± 45	0.33
		19	449 ± 35	0.06	439 ± 58	0.08	460 ± 39	0.97
hemoglobin	M:13.5-17.5 g/dl F:11.5-15.0 g/dl	-7	13.2 ± 0.7		13.4 ± 1.6		14.0 ± 1.0	
		3	13.3 ± 0.9	0.36	13.9 ± 1.8	0.01 *	14.0 ± 0.9	0.83
		5	13.5 ± 1.0	0.13	13.4 ± 1.6	0.90	13.9 ± 1.2	0.48
		19	13.6 ± 1.1	0.08	13.7 ± 1.6	0.25	14.0 ± 0.9	0.73
hematocrit	M:39.7-52.4 % F:34.8-45.0 %	-7	41.0 ± 2.4		41.4 ± 4.5		43.0 ± 3.0	
		3	41.0 ± 2.5	0.94	42.9 ± 4.6	0.00 *	42.4 ± 2.0	0.23
		5	42.1 ± 3.3	0.15	42.5 ± 3.8	0.04 *	43.6 ± 3.6	0.26
		19	42.6 ± 3.2	0.03 *	43.2 ± 3.9	0.01 *	43.4 ± 2.7	0.31
platelet count	14.0-34.0 ×10^4/μl	-7	23.4 ± 3.5		22.9 ± 5.4		24.8 ± 5.6	
		3	24.6 ± 3.5	0.20	24.9 ± 6.1	0.02 *	24.2 ± 5.2	0.22
		5	25.2 ± 3.3	0.03 *	24.2 ± 6.4	0.09	24.5 ± 6.4	0.51
		19	25.6 ± 2.7	0.02 *	24.1 ± 6.4	0.02 *	24.9 ± 6.6	0.92
mean corpuscular volume (MCV)	85-102 fl	-7	94 ± 4		98 ± 11		93 ± 4	
		3	93 ± 4	0.01 *	97 ± 9	0.15	93 ± 4	0.41
		5	94 ± 4	0.78	100 ± 11	0.06	96 ± 4	0.00 *
		19	95 ± 5	0.14	99 ± 11	0.03 *	95 ± 5	0.08
mean cell hemoglobin concentration (MCH)	28.0-34.0 pg	-7	30.4 ± 1.5		31.7 ± 3.7		30.5 ± 1.0	
		3	30.4 ± 1.4	0.83	31.3 ± 3.3	0.09	30.7 ± 1.1	0.33
		5	30.3 ± 1.5	0.43	31.2 ± 3.4	0.04 *	30.5 ± 1.1	0.90
		19	30.4 ± 1.5	0.79	31.4 ± 3.5	0.18	30.4 ± 1.0	0.56
mean cell hemoglobin concentration (MCHC)	30.2-35.1 %	-7	32.3 ± 0.5		32.3 ± 0.9		32.6 ± 0.6	
		3	32.6 ± 0.5	0.21	32.3 ± 0.9	0.97	33.1 ± 0.8	0.04 *
		5	32.2 ± 0.6	0.56	31.4 ± 1.1	0.02 *	31.9 ± 0.7	0.01 *
		19	32.0 ± 0.7	0.27	31.6 ± 1.1	0.04 *	32.2 ± 1.0	0.10
neutrophil rate	40.0-75.0 %	-7	59.1 ± 8.9		59.5 ± 10.9		58.3 ± 8.7	
		3	60.8 ± 7.2	0.58	57.6 ± 10.8	0.55	57.6 ± 7.6	0.80
		5	60.9 ± 6.4	0.48	54.7 ± 6.9	0.06	58.5 ± 6.4	0.93
		19	57.5 ± 5.4	0.57	59.4 ± 7.3	0.97	58.6 ± 8.2	0.91
lymphocyte rate	18.0-49.0 %	-7	32.2 ± 8.1		31.6 ± 9.3		34.8 ± 6.9	
		3	30.7 ± 5.5	0.61	33.2 ± 11.4	0.54	34.8 ± 6.3	1.00
		5	31.2 ± 6.7	0.60	35.0 ± 6.6	0.10	34.3 ± 5.9	0.79
		19	34.0 ± 4.2	0.45	30.5 ± 6.7	0.57	34.5 ± 6.3	0.87
monocyte rate	2.0-10.0 %	-7	5.9 ± 1.0		5.7 ± 0.8		4.7 ± 1.4	
		3	6.1 ± 1.5	0.65	6.3 ± 0.8	0.10	5.3 ± 1.8	0.18
		5	5.9 ± 1.4	1.00	6.3 ± 0.9	0.07	5.2 ± 1.0	0.17
		19	5.8 ± 1.2	0.91	6.3 ± 1.2	0.09	5.1 ± 2.1	0.53
eosinophil rate	0.0-8.0 %	-7	2.3 ± 2.0		2.7 ± 3.1		1.4 ± 1.0	
		3	1.9 ± 2.1	0.12	2.3 ± 1.9	0.39	1.6 ± 1.0	0.45
		5	1.6 ± 1.1	0.17	3.2 ± 3.2	0.21	1.4 ± 0.7	0.93
		19	2.0 ± 1.4	0.31	3.2 ± 2.9	0.10	1.3 ± 0.7	0.34
basophil rate	0.0-2.0 %	-7	0.6 ± 0.3		0.6 ± 0.5		0.7 ± 0.2	
		3	0.6 ± 0.4	0.89	0.6 ± 0.2	0.60	0.6 ± 0.3	0.32
		5	0.5 ± 0.3	0.43	0.8 ± 0.4	0.13	0.6 ± 0.3	0.29
		19	0.6 ± 0.1	0.17	0.6 ± 0.5	0.97	0.6 ± 0.2	0.22
neutrophil number	-	-7	3047.8 ± 1371.1		3542.9 ± 1446.0		3592.0 ± 1082.8	
		3	3068.6 ± 759.2	0.96	3326.2 ± 1302.1	0.42	3272.8 ± 1037.0	0.25
		5	3718.2 ± 1793.7	0.20	2769.5 ± 1053.7	0.01 *	3366.3 ± 764.9	0.57
		19	2795.4 ± 375.2	0.54	3516.1 ± 1067.5	0.93	3439.9 ± 917.5	0.63
lymphocyte number	-	-7	1534.1 ± 326.2		1712.9 ± 450.3		2068.8 ± 362.9	
		3	1529.7 ± 317.8	0.95	1781.4 ± 469.7	0.77	1889.7 ± 205.2	0.19
		5	1790.9 ± 548.9	0.01 *	1681.7 ± 329.7	0.77	1940.0 ± 336.7	0.32
		19	1670.3 ± 377.1	0.08	1734.4 ± 373.5	0.84	1973.8 ± 438.0	0.39
monocyte number	-	-7	297.9 ± 125.3		320.1 ± 81.4		279.8 ± 74.1	
		3	299.9 ± 77.6	0.95	350.3 ± 87.1	0.24	292.2 ± 102.5	0.60
		5	340.7 ± 111.6	0.25	315.1 ± 101.6	0.80	294.9 ± 76.0	0.47
		19	285.3 ± 79.5	0.64	362.9 ± 85.7	0.17	280.4 ± 79.2	0.98
eosinophil number	-	-7	110.8 ± 104.1		158.0 ± 170.7		77.7 ± 46.6	
		3	92.9 ± 105.2	0.25	137.5 ± 127.0	0.45	82.5 ± 53.5	0.66
		5	86.7 ± 61.8	0.27	173.3 ± 190.4	0.43	79.9 ± 41.6	0.88
		19	99.6 ± 77.1	0.32	203.8 ± 218.1	0.07	70.6 ± 36.5	0.34
basophil number	-	-7	27.6 ± 11.4		26.1 ± 15.5		41.7 ± 11.7	
		3	27.1 ± 16.5	0.90	34.6 ± 14.1	0.09	32.9 ± 15.5	0.06
		5	27.3 ± 16.0	0.94	40.3 ± 20.9	0.06	31.3 ± 18.9	0.12
		19	31.2 ± 8.9	0.03 *	32.7 ± 25.8	0.47	35.3 ± 11.4	0.12
AST (GOT)	10-40 IU/l/37℃	-7	17 ± 2		19 ± 5		20 ± 7	
		3	17 ± 3	0.89	21 ± 4	0.10	20 ± 6	0.60
		5	17 ± 2	0.48	21 ± 8	0.32	17 ± 2	0.15
		19	16 ± 3	0.07	22 ± 13	0.43	17 ± 3	0.09
ALT (GPT)	5-45 IU/l/37℃	-7	15 ± 6		16 ± 7		17 ± 8	
		3	15 ± 6	1.00	17 ± 6	0.41	18 ± 10	0.63
		5	14 ± 5	0.40	17 ± 5	0.78	14 ± 6	0.05 *
		19	14 ± 5	0.44	15 ± 6	0.53	15 ± 6	0.06
γ-GTP	M:80以下 IU/l/37℃ F:30以下 IU/l/37℃	-7	16 ± 4		36 ± 29		20 ± 8	
		3	16 ± 5	0.88	38 ± 30	0.24	21 ± 8	0.61
		5	17 ± 5	0.01 *	36 ± 29	1.00	20 ± 6	0.94
		19	16 ± 6	0.67	34 ± 31	0.45	19 ± 7	0.25
ALP	100-325 IU/l/37℃	-7	175 ± 66		173 ± 55		191 ± 70	
		3	179 ± 76	0.39	173 ± 45	0.99	193 ± 64	0.84
		5	177 ± 65	0.43	166 ± 39	0.33	174 ± 55	0.03 *
		19	194 ± 85	0.09	174 ± 43	0.91	193 ± 68	0.79
LD (LDH)	120-240 IU/l/37℃	-7	167 ± 23		179 ± 38		176 ± 29	
		3	169 ± 22	0.72	184 ± 34	0.12	167 ± 21	0.04 *
		5	179 ± 35	0.04 *	178 ± 38	0.93	172 ± 16	0.40

		19	169	±	29	0.78		175	±	47	0.53		166	±	20	0.08	
LAP	37-61 IU/l/37℃	-7	48	±	6			54	±	9			51	±	7		
		3	48	±	6	1.00		56	±	8	0.08		51	±	7	0.94	
		5	49	±	6	0.07		53	±	9	0.16		50	±	7	0.30	
		19	50	±	6	0.05		55	±	10	0.62		51	±	7	0.69	
total bilirubin	0.2-1.2 mg/dl	-7	0.8	±	0.4			0.8	±	0.4			0.9	±	0.5		
		3	0.8	±	0.3	0.86		1.1	±	0.5	0.04	*	1.0	±	0.4	0.39	
		5	0.9	±	0.3	0.39		0.9	±	0.3	0.58		1.0	±	0.5	0.27	
		19	0.8	±	0.3	0.60		1.0	±	0.3	0.15		0.8	±	0.4	0.17	
direct bilirubin	0.0-0.2 mg/dl	-7	0.1	±	0.1			0.1	±	0.1			0.1	±	0.0		
		3	0.1	±	0.1	1.00		0.1	±	0.1	0.34		0.1	±	0.0	0.34	
		5	0.1	±	0.1	0.34		0.1	±	0.1	0.34		0.2	±	0.1	0.10	
		19	0.1	±	0.0	0.34		0.1	±	0.1	0.34		0.1	±	0.1	0.59	
indirect bilirubin	0.2-1.0 mg/dl	-7	0.7	±	0.3			0.7	±	0.3			0.8	±	0.4		
		3	0.7	±	0.3	0.82		1.0	±	0.4	0.05	*	0.9	±	0.3	0.50	
		5	0.8	±	0.3	0.58		0.8	±	0.2	0.42		0.9	±	0.4	0.45	
		19	0.6	±	0.2	0.45		0.8	±	0.3	0.21		0.7	±	0.3	0.16	
cholinesterase	200-452 IU/l/37℃	-7	316	±	74			301	±	66			332	±	59		
		3	318	±	78	0.44		318	±	63	0.01	*	323	±	69	0.16	
		5	327	±	85	0.11		303	±	67	0.79		318	±	68	0.08	
		19	318	±	77	0.66		306	±	60	0.63		317	±	59	0.04	*
ZTT	2.0-12.0 U	-7	7.2	±	2.7			6.6	±	3.6			7.8	±	2.9		
		3	7.4	±	2.9	0.26		7.1	±	4.0	0.13		7.9	±	2.7	0.81	
		5	7.5	±	2.7	0.02	*	7.0	±	3.6	0.03	*	7.6	±	2.6	0.40	
		19	7.5	±	2.7	0.22		6.6	±	3.4	0.83		7.7	±	2.6	0.78	
total protein	6.7-8.3 g/dl	-7	7.1	±	0.4			7.1	±	0.4			7.5	±	0.4		
		3	7.3	±	0.4	0.02	*	7.5	±	0.4	0.00	*	7.4	±	0.5	0.33	
		5	7.5	±	0.5	0.00	*	7.3	±	0.4	0.06		7.4	±	0.3	0.73	
		19	7.5	±	0.5	0.00	*	7.4	±	0.4	0.04	*	7.5	±	0.4	0.67	
urea nitrogen	8.0-20.0 mg/dl	-7	12.9	±	3.6			12.3	±	2.5			14.1	±	3.7		
		3	16.9	±	4.1	0.00	*	16.1	±	3.3	0.01	*	16.5	±	2.6	0.01	*
		5	17.0	±	4.9	0.00	*	14.2	±	3.0	0.13		15.0	±	3.6	0.30	
		19	11.9	±	2.8	0.18		12.5	±	1.5	0.82		11.3	±	3.2	0.00	*
creatinine	0.47-0.79 mg/dl	-7	0.69	±	0.13			0.69	±	0.14			0.69	±	0.13		
		3	0.68	±	0.13	0.56		0.68	±	0.12	0.70		0.68	±	0.13	0.32	
		5	0.68	±	0.14	0.61		0.67	±	0.12	0.19		0.67	±	0.16	0.25	
		19	0.72	±	0.16	0.05	*	0.69	±	0.12	0.52		0.67	±	0.14	0.13	
uric acid	M:3.8-7.0 mg/dl F:2.5-7.0 mg/dl	-7	4.5	±	1.2			5.1	±	1.2			4.8	±	1.5		
		3	5.0	±	1.6	0.02	*	5.8	±	1.4	0.00	*	5.6	±	1.5	0.02	*
		5	5.1	±	1.9	0.07		5.5	±	1.4	0.04	*	4.9	±	1.5	0.77	
		19	4.6	±	1.5	0.32		5.2	±	1.0	0.78		4.9	±	1.4	0.61	
creatine kinase	40-150 IU/l/37℃	-7	102	±	56			102	±	36			194	±	325		
		3	96	±	47	0.55		102	±	42	0.98		132	±	136	0.36	
		5	123	±	78	0.06		127	±	72	0.27		111	±	51	0.39	
		19	91	±	34	0.45		102	±	66	1.00		99	±	67	0.32	
K	3.5-5.0 mEq/l	-7	3.8	±	0.3			3.7	±	0.2			3.9	±	0.3		
		3	3.8	±	0.2	1.00		3.8	±	0.1	0.66		3.7	±	0.3	0.01	*
		5	3.7	±	0.2	0.60		4.0	±	0.3	0.03	*	3.9	±	0.3	0.78	
		19	3.7	±	0.1	0.26		3.9	±	0.3	0.01	*	3.8	±	0.4	0.66	
Cl-	98-108 mEq/l	-7	102	±	2			101	±	2			100	±	2		
		3	103	±	1	0.46		101	±	3	0.40		103	±	2	0.00	*
		5	101	±	1	0.14		101	±	2	0.50		101	±	2	0.02	*
		19	101	±	1	0.11		101	±	3	0.33		102	±	2	0.00	*
Na	137-147 mEq/l	-7	142	±	1			141	±	1			140	±	2		
		3	141	±	2	0.11		141	±	2	0.77		141	±	1	0.24	
		5	140	±	2	0.01	*	139	±	2	0.06		140	±	2	0.43	
		19	141	±	2	0.19		141	±	1	0.64		141	±	2	0.15	
Ca	8.4-10.4 mg/dl	-7	9.5	±	0.3			9.7	±	0.2			9.7	±	0.3		
		3	9.6	±	0.3	0.67		9.8	±	0.3	0.07		9.6	±	0.3	0.26	
		5	9.7	±	0.3	0.11		9.8	±	0.3	0.11		9.7	±	0.2	0.81	
		19	9.7	±	0.3	0.06		9.8	±	0.4	0.06		9.8	±	0.2	0.30	
inorganic phosphorus	2.5-4.5 mg/dl	-7	3.9	±	0.8			4.3	±	1.0			3.9	±	0.6		
		3	4.0	±	0.4	0.29		4.2	±	0.5	0.67		3.8	±	0.4	0.39	
		5	4.0	±	0.7	0.66		4.7	±	0.9	0.26		4.2	±	1.1	0.22	
		19	4.2	±	0.7	0.22		4.7	±	0.7	0.28		4.1	±	0.6	0.24	
serum iron	M:50-200 μg/dl F:40-180μg/dl	-7	101	±	25			107	±	52			102	±	25		
		3	97	±	36	0.65		124	±	44	0.23		96	±	26	0.66	
		5	100	±	30	0.92		108	±	38	0.98		103	±	28	0.89	
		19	92	±	34	0.48		129	±	50	0.17		95	±	33	0.42	
serum amylase	40-122 IU/l/37℃	-7	69	±	15			64	±	13			71	±	18		
		3	68	±	15	0.75		60	±	10	0.21		68	±	17	0.34	
		5	68	±	18	0.86		62	±	14	0.49		68	±	17	0.42	
		19	75	±	16	0.19		70	±	13	0.09		85	±	43	0.22	
total cholesterol	120-219 mg/dl	-7	202	±	39			195	±	36			205	±	45		
		3	207	±	38	0.18		212	±	31	0.00	*	205	±	43	0.93	
		5	223	±	47	0.01	*	201	±	21	0.47		207	±	43	0.84	
		19	207	±	28	0.28		203	±	41	0.16		195	±	36	0.26	
HDL-cholesterol	40-95 mg/dl	-7	66	±	13			67	±	14			80	±	22		
		3	68	±	12	0.25		77	±	17	0.03	*	79	±	17	0.65	
		5	71	±	12	0.03	*	71	±	14	0.20		78	±	17	0.43	
		19	68	±	16	0.51		69	±	13	0.49		82	±	21	0.47	
LDL-cholesterol	65-139 mg/dl	-7	122	±	32			105	±	28			110	±	32		
		3	132	±	34	0.02	*	127	±	31	0.00	*	116	±	34	0.48	
		5	142	±	41	0.01	*	120	±	19	0.02	*	119	±	37	0.39	
		19	126	±	24	0.27		113	±	33	0.16		102	±	25	0.33	
triglyceride	30-149 mg/dl	-7	69	±	35			118	±	120			80	±	61		
		3	57	±	23	0.28		54	±	24	0.08		72	±	51	0.72	
		5	61	±	28	0.39		51	±	23	0.10		51	±	18	0.13	
		19	78	±	42	0.37		115	±	79	0.90		80	±	36	0.97	
free fatty acid	0.10-0.90 mEq/l	-7	0.70	±	0.23			0.71	±	0.25			0.82	±	0.26		
		3	0.66	±	0.23	0.73		0.92	±	0.24	0.08		0.92	±	0.36	0.45	
		5	0.95	±	0.33	0.00	*	0.88	±	0.30	0.28		0.97	±	0.31	0.07	
		19	0.70	±	0.26	0.98		0.78	±	0.33	0.55		0.66	±	0.28	0.14	
		-7	80	±	6			80	±	7			79	±	8		

Glucose	70-109 mg/dl	3	81	±	6	0.88		76	±	11	0.20		78	±	8	0.67	
		5	81	±	6	0.83		82	±	9	0.60		80	±	5	0.39	
		19	86	±	10	0.03	*	83	±	6	0.18		86	±	13	0.05	
hemoglobin A1c	4.6 - 6.2 %	-7	5.3	±	0.4			5.3	±	0.2			5.2	±	0.2		
		3	5.4	±	0.4	0.01	*	5.4	±	0.2	0.00	*	5.3	±	0.2	0.01	*
		5	5.3	±	0.4	0.10		5.3	±	0.2	0.28		5.2	±	0.2	0.59	
		19	5.3	±	0.4	0.55		5.3	±	0.3	0.32		5.2	±	0.2	1.00	
glycoalbumin	12.3 - 16.5 %	-7	14.1	±	1.0			14.0	±	0.6			13.7	±	1.1		
		3	13.8	±	1.0	0.01	*	13.7	±	0.8	0.01	*	13.5	±	1.1	0.01	*
		5	13.6	±	1.0	0.00	*	13.6	±	0.7	0.00	*	13.4	±	1.1	0.02	*
		19	13.7	±	0.9	0.00	*	13.6	±	0.6	0.00	*	13.4	±	1.1	0.00	*
pancreatic amylase	19-53 U/l	-7	32	±	10			30	±	5			33	±	6		
		3	33	±	12	0.33		30	±	4	0.57		32	±	7	0.46	
		5	35	±	13	0.12		31	±	5	0.46		32	±	7	0.33	
		19		NT[3]					NT					NT			
lipase	5-35 U/l	-7	9	±	6			9	±	5			8	±	3		
		3	10	±	7	0.32		10	±	9	0.41		8	±	3	0.47	
		5	11	±	9	0.28		10	±	5	0.43		8	±	3	0.79	
		19		NT					NT					NT			
NT-proBNP	125 pg/ml 以下	-7	32.9	±	33.1			34.1	±	18.0			19.8	±	13.5		
		3	17.9	±	14.8	0.04	*	22.7	±	16.6	0.08		25.9	±	12.3	0.35	
		5	23.2	±	11.6	0.28		25.8	±	12.7	0.01	*	27.2	±	21.9	0.11	
		19		NT					NT					NT			

[1] Intra-group differences from baseline were compared by a paired Student's t test, *P<0.05

[2] Mean ± SD (all such values).

[3] No test.

YAB, subjects ingested yoghurt during the periods of animal-based diet and balanced diet; YB, subjects ingested yoghurt during the periods of balanced diet; CTR, control

Table S7. Comparative table with David's report (2014) on energy intake and macronutrient composition.[2]

	Baseline		Animal-based diet		Balanced diet	Plant-based diet
	this study	David's report	this study	David's report	this study	David's report
Calorie (kcal)	1,514 ± 188[1]	2623 ± 205	1,503 ± 144	1,777 ± 221	1468 ± 191	1,695 ± 172
Protein intake (% kcal)	15.5 ± 1.3	16.2 ± 1.3	23.2 ± 1.4	30.1 ± 0.5	17.2 ± 0.9	10.0 ± 0.3
Fat intake (% kcal)	32.1 ± 3.7	32.5 ± 2.2	63.5 ± 2.7	69.5 ± 0.4	35.6 ± 3.7	22.1 ± 1.7
Fibre intake (g per 1000 kcal)	6.5 ± 1.1	9.3 ± 2.1	0.6 ± 0.1	negligible	9.2 ± 1.1	25.6 ± 1.1

[1] Median and median absolute deviation (MAD) (all such values).

[2] David, L.A., Maurice, C.F., Carmody, R.N., Gootenberg, D.B., Button, J.E., Wolfe, B.E., Ling, A.V., Devlin, A.S., Varma, Y., Fischbach, M.A., Biddinger, S.B., Dutton, R.J. and Turnbaugh, P.J., 2014. Diet rapidly and reproducibly alters the human gut microbiome. Nature 505: 559-563.

Table S8. Change of body mass index during the intervention.

	YAB group (n=10)	*P*[1]	YB group (n=10)	*P*	CTR group (n=11)	*P*	*P*(ANCOVA+Bonferroni)[2] YAB vs YB	YAB vs CTR	YB vs CTR
day -7	21.78 ± 3.39 [2]	-	21.67 ± 3.58	-	23.25 ± 3.66	-			
day 3	21.57 ± 3.35	0.026	21.34 ± 3.52	0.003	23.07 ± 3.75	0.044	0.541	1.000	
day 5	21.54 ± 3.25	0.016	21.41 ± 3.51	0.058	22.92 ± 3.72	0.004	1.000	1.000	
day 19	21.73 ± 3.30	0.642	21.59 ± 3.71	0.560	23.15 ± 3.79	0.460	1.000	1.000	1.000

[1] Intra-group differences from baseline were compared by a paired Student's t test.

[2] Inter-group differences were compared by ANCOVA adjusted for each data at day -7(baseline) followed by a post hoc Bonferroni test

[3] Mean ± SD (all such values).

YAB, subjects ingested yoghurt during the periods of animal-based diet and balanced diet; YB, subjects ingested yoghurt during the periods of balanced diet; CTR, control

Table S9. Conditions of defecation moniored by questionnaires with Likert type scale.[1]

		YAB group				YB group				CTR group				*P* (ANCOVA+Bonferroni)[3]		
	day	(n=11)			*P*[2]	(n=10)			*P*	(n=10)			*P*	YAB vs YB	YAB vs CTR	YB vs CTR
flatus odour	-7	3.0	±	0.9[4]		2.5	±	0.8		2.7	±	0.9				
	5	3.0	±	0.6	1.00	2.3	±	0.8	0.59	2.8	±	1.0	0.68	0.54	1.00	
	12	3.3	±	0.6	0.08	2.9	±	1.1	0.10	3.0	±	0.9	0.08	1.00	1.00	1.00
	19	3.2	±	0.8	0.44	2.9	±	0.7	0.17	2.9	±	1.0	0.34	1.00	1.00	1.00
hard stool	-7	3.2	±	0.8		2.9	±	1.0		3.1	±	0.9				
	5	3.5	±	0.8	0.28	3.2	±	1.0	0.43	3.1	±	0.9	1.00	1.00	1.00	
	12	3.2	±	1.1	1.00	3.1	±	0.9	0.62	2.8	±	1.2	0.58	1.00	1.00	1.00
	19	3.3	±	0.8	0.59	3.1	±	1.0	0.64	3.5	±	0.5	0.17	1.00	1.00	0.99
loose bowl	-7	3.3	±	0.8		2.4	±	1.0		2.6	±	1.2				
	5	2.7	±	0.9	0.05	2.3	±	1.1	0.81	3.0	±	0.8	0.34	1.00	0.82	
	12	3.3	±	0.9	1.00	2.7	±	1.1	0.50	3.2	±	0.9	0.17	1.00	1.00	0.91
	19	3.1	±	0.7	0.44	2.5	±	1.0	0.80	3.0	±	1.1	0.27	1.00	1.00	0.83

[1] Likert type scale were recorded as follows. 1, very much; 2, quite a lot; 3, a little; 4, not at all.

[2] Intra-group differences from baseline were compared by a paired Student's t test, * $P<0.05$.

[3] Inter-group differences were compared by ANCOVA adjusted for each data at day -7(baseline) followed by a post hoc Bonferroni test.

[4] Mean ± SD (all such values).

YAB, subjects ingested yoghurt during the periods of animal-based diet and balanced diet; YB, subjects ingested yoghurt during the periods of balanced diet; CTR, control

Table S10. Relative abundance of each microbiota at genus level.

	YAB group							YB group	
Assignment	Day -7	P[1]	Day 0	Day 5	P	Day 19	P	Day -7	P
Unassigned;Other;Other;Other;Other;Other	0.00 (0.00 - 0.00)[3]	0.29	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.67	0.00 (0.00 - 0.00)	0.21	0.00 (0.00 - 0.00)	0.67
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__	0.00 (0.00 - 0.00)	NA[4]	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__Actinomyces	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	0.27	0.00 (0.00 - 0.00)	0.79
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__Varibaculum	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Corynebacteriaceae;g__Corynebacteriu	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Micrococcaceae;g__Rothia	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;Other	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;g__Bifidobacterium	0.06 (0.01 - 0.18)	0.54	0.05 (0.01 - 0.11)	0.03 (0.01 - 0.06)	0.41	0.04 (0.02 - 0.13)	0.52	0.06 (0.05 - 0.08)	0.77
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;g__Scardovia	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__	0.00 (0.00 - 0.00)	0.27	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	0.12
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Adlercreutzia	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.93
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Atopobium	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Collinsella	0.00 (0.00 - 0.01)	0.42	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.42	0.00 (0.00 - 0.01)	0.08	0.01 (0.00 - 0.01)	0.19
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Eggerthella	0.00 (0.00 - 0.00)	0.32	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.48	0.00 (0.00 - 0.00)	0.64	0.00 (0.00 - 0.00)	0.64
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Slackia	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.58
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides	0.23 (0.18 - 0.27)	0.90	0.22 (0.16 - 0.27)	0.26 (0.23 - 0.28)	0.37	0.20 (0.11 - 0.28)	0.37	0.18 (0.16 - 0.25)	0.32
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Parabacteroides	0.01 (0.01 - 0.02)	0.28	0.01 (0.01 - 0.02)	0.02 (0.01 - 0.03)	0.12	0.01 (0.00 - 0.02)	0.90	0.02 (0.01 - 0.04)	0.81
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Porphyromonas	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	0.53	0.00 (0.00 - 0.01)	0.20
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;Other	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.53	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__	0.00 (0.00 - 0.01)	0.08	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.61	0.00 (0.00 - 0.00)	0.54	0.00 (0.00 - 0.01)	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__S24-7;g__	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.18
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Barnesiellaceae];g__	0.00 (0.00 - 0.00)	0.01 *	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.01)	0.29
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacteraceae];g__Butyricimonas	0.00 (0.00 - 0.00)	0.06	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.09	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	0.44
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacteraceae];g__Odoribacter	0.00 (0.00 - 0.00)	0.12	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	0.04 *	0.00 (0.00 - 0.00)	0.10
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__Paraprevotella	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.79
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__[Prevotella]	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Cyanobacteria;c__4C0d-2;o__YS2;f__;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Cyanobacteria;c__Chloroplast;o__Chlorophyta;f__;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Cyanobacteria;c__Chloroplast;o__Streptophyta;f__;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Elusimicrobia;c__Elusimicrobia;o__Elusimicrobiales;f__Elusimicrobiaceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.58
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Geobacillus	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Planococcaceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Staphylococcaceae;g__Staphylococcus	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.37
k__Bacteria;p__Firmicutes;c__Bacilli;o__Gemellales;f__Gemellaceae;g__	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.94	0.00 (0.00 - 0.00)	0.21	0.00 (0.00 - 0.00)	0.58
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Aerococcaceae;g__Abiotrophia	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Carnobacteriaceae;Other	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Carnobacteriaceae;g__Carnobacterium	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Carnobacteriaceae;g__Granulicatella	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.94	0.00 (0.00 - 0.00)	0.62	0.00 (0.00 - 0.00)	0.86
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Enterococcaceae;g__Enterococcus	0.00 (0.00 - 0.00)	0.41	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.44	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	0.20
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus	0.00 (0.00 - 0.00)	0.48	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.01 **	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.93
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Pediococcus	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Leuconostocaceae;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Leuconostocaceae;g__Leuconostoc	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Lactococcus	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Streptococcus	0.01 (0.00 - 0.02)	0.64	0.01 (0.00 - 0.02)	0.02 (0.01 - 0.04)	0.37	0.01 (0.01 - 0.04)	0.21	0.00 (0.00 - 0.01)	0.28
k__Bacteria;p__Firmicutes;c__Bacilli;o__Turicibacterales;f__Turicibacteraceae;g__Turicibacter	0.00 (0.00 - 0.00)	0.02 *	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.76	0.00 (0.00 - 0.00)	0.92	0.00 (0.00 - 0.00)	0.79
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;Other;Other	0.01 (0.00 - 0.02)	0.68	0.01 (0.00 - 0.02)	0.00 (0.00 - 0.02)	0.54	0.00 (0.00 - 0.02)	0.41	0.02 (0.01 - 0.03)	0.77
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__;g__	0.02 (0.01 - 0.02)	0.70	0.02 (0.01 - 0.02)	0.02 (0.00 - 0.03)	0.02 *	0.02 (0.01 - 0.04)	0.24	0.01 (0.01 - 0.02)	0.70
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Christensenellaceae;g__	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	0.06
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Christensenellaceae;g__Christensenella	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;Other	0.00 (0.00 - 0.00)	0.02 *	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.23	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.04 *
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__	0.00 (0.00 - 0.01)	0.10	0.01 (0.00 - 0.01)	0.01 (0.00 - 0.02)	0.41	0.00 (0.00 - 0.02)	0.90	0.00 (0.00 - 0.01)	0.92
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium	0.00 (0.00 - 0.00)	0.15	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.61	0.00 (0.00 - 0.00)	0.67
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__SMB53	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__Dehalobacterium	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__Anaerofustis	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.79
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__Pseudoramibacter_Eubacterium	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;Other	0.00 (0.00 - 0.00)	0.90	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.76	0.00 (0.00 - 0.00)	0.70	0.00 (0.00 - 0.00)	0.41
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__	0.10 (0.06 - 0.12)	0.70	0.11 (0.07 - 0.16)	0.10 (0.07 - 0.14)	0.64	0.09 (0.04 - 0.10)	0.12	0.13 (0.08 - 0.16)	0.38
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Anaerostipes	0.00 (0.00 - 0.00)	0.53	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.02 *	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	0.53
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Blautia	0.09 (0.07 - 0.10)	0.90	0.10 (0.08 - 0.15)	0.10 (0.08 - 0.14)	0.83	0.09 (0.05 - 0.12)	0.24	0.07 (0.07 - 0.09)	0.56
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Coprococcus	0.02 (0.01 - 0.03)	0.07	0.03 (0.02 - 0.04)	0.02 (0.01 - 0.03)	0.37	0.03 (0.01 - 0.04)	0.28	0.03 (0.01 - 0.03)	0.32
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Dorea	0.01 (0.01 - 0.01)	0.52	0.01 (0.01 - 0.01)	0.01 (0.01 - 0.02)	0.07	0.01 (0.01 - 0.01)	0.21	0.01 (0.01 - 0.01)	0.85
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Epulopiscium	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Lachnobacterium	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Lachnospira	0.00 (0.00 - 0.01)	0.91	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.29	0.00 (0.00 - 0.01)	0.48	0.01 (0.00 - 0.01)	0.34
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Moryella	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Oribacterium	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Roseburia	0.00 (0.00 - 0.00)	0.05	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.76	0.00 (0.00 - 0.00)	0.48	0.00 (0.00 - 0.00)	0.70
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Ruminococcus]	0.02 (0.01 - 0.03)	0.76	0.02 (0.01 - 0.03)	0.03 (0.03 - 0.06)	0.01 *	0.01 (0.01 - 0.02)	0.21	0.02 (0.01 - 0.04)	0.04 *
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__Peptococcus	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__rc4-4	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcaceae;g__	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcaceae;g__Peptostreptococcus	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;Other	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.04 (0.02 - 0.05)	0.76	0.05 (0.03 - 0.07)	0.03 (0.02 - 0.06)	0.76	0.04 (0.02 - 0.06)	0.64	0.04 (0.02 - 0.06)	0.70
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Anaerotruncus	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.37
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Faecalibacterium	0.11 (0.02 - 0.15)	0.61	0.08 (0.05 - 0.11)	0.06 (0.03 - 0.13)	0.84	0.06 (0.05 - 0.09)	1.00	0.07 (0.07 - 0.08)	0.85
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Oscillospira	0.01 (0.00 - 0.01)	1.00	0.01 (0.00 - 0.01)	0.01 (0.00 - 0.02)	0.10	0.00 (0.00 - 0.01)	0.58	0.01 (0.01 - 0.01)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcus	0.02 (0.00 - 0.04)	0.83	0.01 (0.00 - 0.08)	0.01 (0.00 - 0.04)	1.00	0.03 (0.02 - 0.08)	0.46	0.00 (0.00 - 0.01)	0.92
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Syntrophomonadaceae;g__Syntrophomonas	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;Other	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Acidaminococcus	0.00 (0.00 - 0.01)	0.23	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.20	0.00 (0.00 - 0.00)	0.05	0.00 (0.00 - 0.00)	0.20
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Dialister	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.01)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Megamonas	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Megasphaera	0.00 (0.00 - 0.03)	0.67	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.14	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.02)	0.59
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Mitsuokella	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Phascolarctobacterium	0.00 (0.00 - 0.00)	0.62	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.62	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	0.14
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Veillonella	0.00 (0.00 - 0.01)	0.72	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	0.08
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__	0.00 (0.00 - 0.00)	0.34	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.91	0.00 (0.00 - 0.00)	0.44	0.00 (0.00 - 0.00)	0.81
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__Mogibacterium	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Anaerococcus	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Finegoldia	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Parvimonas	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Peptoniphilus	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__WAL_1855D	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Clostridia;o__SHA-98;f__;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__	0.00 (0.00 - 0.01)	0.61	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.68	0.00 (0.00 - 0.02)	1.00
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Allobaculum	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Bulleidia	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Catenibacterium	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Coprobacillus	0.00 (0.00 - 0.00)	0.21	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.45	0.00 (0.00 - 0.00)	0.94	0.00 (0.00 - 0.00)	0.53
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemania	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.83
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__[Eubacterium]	0.00 (0.00 - 0.01)	0.13	0.00 (0.00 - 0.01)	0.01 (0.00 - 0.03)	0.01 **	0.00 (0.00 - 0.00)	0.68	0.00 (0.00 - 0.00)	0.05 *
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__cc_115	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.53	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.55
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteriaceae;g__Fusobacterium	0.00 (0.00 - 0.00)	0.06	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.11	0.00 (0.00 - 0.00)	0.42
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Leptotrichiaceae;g__Sneathia	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Lentisphaerae;c__[Lentisphaeria];o__Victivallales;f__Victivallaceae;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Caulobacteraceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__RF32;f__;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.18
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylobacteriaceae;g__Methylobacte	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Agrobacterium	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sphin	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Sutterella	0.01 (0.00 - 0.02)	0.61	0.01 (0.00 - 0.01)	0.01 (0.00 - 0.01)	0.64	0.01 (0.00 - 0.01)	0.41	0.01 (0.00 - 0.02)	0.49
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Lautropia	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Comamonadaceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Oxalobacteraceae;Other	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.36
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Bilophil	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.72
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Desulfo	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Campylobacteraceae;g__Arc	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Campylobacteraceae;g__Car	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Helicobacteraceae;g__Helico	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Succinivibrionaceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;Other	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__	0.00 (0.00 - 0.00)	0.15	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.31	0.00 (0.00 - 0.00)	0.13	0.00 (0.00 - 0.00)	0.85
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Citrob	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.42
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Klebsi	0.00 (0.00 - 0.00)	0.12	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	0.44	0.00 (0.00 - 0.00)	0.94
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Proteu	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Serrat	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Legionellales;f__Legionellaceae;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Aggregatibac	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Haemophilus	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.40	0.00 (0.00 - 0.00)	0.58
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Acinetoba	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Pseudomonadaceae;g__Pseu	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Stenc	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Dethiosulfovibrionaceae;g__Pyramidobacter	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Synergistaceae;Other	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__TM7;c__TM7-3;o__;f__;g__	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__TM7;c__TM7-3;o__CW040;f__;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA
k__Bacteria;p__Tenericutes;c__Mollicutes;o__RF39;f__;g__	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Tenericutes;c__RF3;o__ML615J-28;f__;g__	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00
k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Akkerm	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00

	YB group					CTR group							P(at day 5)[2]		P(at day 19)		
Assignment	Day 0	Day 5	P	Day 19	P	Day -7	P	Day 0	Day 5	P	Day 19	P	YAB vs YB	YAB vs CTR	YAB vs YB	YAB vs CTR	YB vs CTR
Unassigned;Other;Other;Other;Other;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.40	0.43	0.61	0.61	0.92	0.63
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__Actinomyces	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.29	0.81	0.71	0.31	0.25	0.58
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Actinomycetaceae;g__Varibaculum	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.76	0.97	0.76	0.97	0.74
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Corynebacteriaceae;g__Corynebacteriu	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	1.00	1.00	1.00
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Actinomycetales;f__Micrococcaceae;g__Rothia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	1.00	0.20	0.31	0.20	0.39	0.80
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.76	0.76	1.00
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;g__Bifidobacterium	0.05 (0.03 - 0.09)	0.03 (0.02 - 0.05)	0.02 *	0.05 (0.04 - 0.10)	0.92	0.10 (0.08 - 0.15)	0.28	0.13 (0.06 - 0.17)	0.02 (0.01 - 0.05)	0.03 *	0.11 (0.03 - 0.18)	0.08	0.31	0.06	0.92	0.15	0.19
k__Bacteria;p__Actinobacteria;c__Actinobacteria;o__Bifidobacteriales;f__Bifidobacteriaceae;g__Scardovia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	1.00	1.00	1.00
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.64	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.03 *	0.00 (0.00 - 0.00)	0.10	0.97	0.01 *	0.56	0.11	0.02
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Adlercreutzia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.97	0.86	0.35	0.86	0.39
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Atopobium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Collinsella	0.01 (0.00 - 0.01)	0.01 (0.00 - 0.01)	0.29	0.01 (0.00 - 0.01)	0.49	0.00 (0.00 - 0.01)	0.06	0.01 (0.00 - 0.01)	0.01 (0.00 - 0.01)	0.83	0.00 (0.00 - 0.01)	0.55	0.47	0.76	0.61	0.56	0.97
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Eggerthella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.45	0.00 (0.00 - 0.00)	0.49	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.04 *	0.00 (0.00 - 0.00)	0.24	0.35	0.04	0.28	0.65	0.12
k__Bacteria;p__Actinobacteria;c__Coriobacteriia;o__Coriobacteriales;f__Coriobacteriaceae;g__Slackia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	0.61	0.47	0.97	0.63
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Bacteroidaceae;g__Bacteroides	0.23 (0.16 - 0.26)	0.23 (0.18 - 0.28)	0.70	0.15 (0.10 - 0.29)	0.28	0.17 (0.15 - 0.25)	0.38	0.25 (0.22 - 0.33)	0.31 (0.23 - 0.35)	0.13	0.19 (0.13 - 0.28)	0.32	0.71	0.76	0.76	0.81	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Parabacteroides	0.02 (0.02 - 0.02)	0.04 (0.02 - 0.06)	0.10	0.01 (0.01 - 0.02)	0.10	0.01 (0.00 - 0.03)	0.02 *	0.01 (0.00 - 0.01)	0.02 (0.00 - 0.03)	0.01 *	0.01 (0.00 - 0.01)	0.29	0.28	0.22	0.56	0.47	0.08
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Porphyromonadaceae;g__Porphyromonas	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Prevotellaceae;g__Prevotella	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.67	0.00 (0.00 - 0.01)	0.55	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.06	0.00 (0.00 - 0.00)	0.53	0.61	0.10	0.76	0.28	0.39
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.40	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.42	0.43	0.47	0.81	0.17	0.48
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__Rikenellaceae;g__	0.00 (0.00 - 0.01)	0.01 (0.00 - 0.01)	0.16	0.00 (0.00 - 0.01)	0.55	0.00 (0.00 - 0.01)	0.80	0.00 (0.00 - 0.01)	0.01 (0.00 - 0.01)	0.53	0.01 (0.00 - 0.01)	0.53	0.43	0.92	0.92	0.86	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__S24-7;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.36	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.65	1.00	0.51	0.76	0.68
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Barnesiellaceae];g__	0.00 (0.00 - 0.01)	0.01 (0.00 - 0.01)	0.04 *	0.00 (0.00 - 0.01)	0.53	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.62	0.00 (0.00 - 0.00)	0.80	0.28	0.76	0.81	0.61	0.58
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacteraceae];g__Butyricimonas	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.02 *	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	0.31	0.39	0.97	0.31	0.44
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Odoribacteraceae];g__Odoribacter	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.03 *	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.03 *	0.00 (0.00 - 0.00)	0.67	0.17	0.04	1.00	0.17	0.28
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.81	0.76	1.00
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__Paraprevotella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	1.00	0.51	0.56	0.43	0.65	0.80
k__Bacteria;p__Bacteroidetes;c__Bacteroidia;o__Bacteroidales;f__[Paraprevotellaceae];g__[Prevotella]	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	0.76	0.51	0.76	0.74
k__Bacteria;p__Cyanobacteria;c__4C0d-2;o__YS2;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.71	0.76	0.48
k__Bacteria;p__Cyanobacteria;c__Chloroplast;o__Chlorophyta;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.76	0.76	1.00
k__Bacteria;p__Cyanobacteria;c__Chloroplast;o__Streptophyta;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.76	0.76	1.00
k__Bacteria;p__Elusimicrobia;c__Elusimicrobia;o__Elusimicrobiales;f__Elusimicrobiaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Bacillus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.11	0.00 (0.00 - 0.01)	0.40	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.10	0.20	0.22	0.31	0.15	0.97
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Bacillaceae;g__Geobacillus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Planococcaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Bacillales;f__Staphylococcaceae;g__Staphylococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	1.00	0.76	0.47	1.00	0.65	0.48
k__Bacteria;p__Firmicutes;c__Bacilli;o__Gemellales;f__Gemellaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.11	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.14	0.76	0.97	0.61	0.04	0.06
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.71	1.00	1.00	0.71	0.74
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Aerococcaceae;g__Abiotrophia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	1.00	1.00	0.71	0.71	0.97
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Carnobacteriaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	1.00	0.71	1.00	1.00	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Carnobacteriaceae;g__Carnobacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	1.00	1.00	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Carnobacteriaceae;g__Granulicatella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.67	0.00 (0.00 - 0.00)	1.00	0.86	0.81	0.61	0.76	0.58
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Enterococcaceae;g__Enterococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.11	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	0.80	0.04	0.81	0.28	0.81	0.58
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Lactobacillus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.02 *	0.00 (0.00 - 0.00)	0.85	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.64	0.00 **	0.00 **	0.71	0.47	0.19
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Lactobacillaceae;g__Pediococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	0.76	1.00	0.76	0.74
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Leuconostocaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	0.97	0.76	0.74
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Leuconostocaceae;g__Leuconostoc	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.56	0.97	1.00	0.71	0.74
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Lactococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.06	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.06	0.65	0.61	0.15	0.13	0.85
k__Bacteria;p__Firmicutes;c__Bacilli;o__Lactobacillales;f__Streptococcaceae;g__Streptococcus	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.02)	0.23	0.01 (0.00 - 0.01)	0.63	0.01 (0.00 - 0.01)	0.56	0.01 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.43	0.01 (0.00 - 0.01)	0.63	0.28	0.35	0.35	0.56	0.85
k__Bacteria;p__Firmicutes;c__Bacilli;o__Turicibacterales;f__Turicibacteraceae;g__Turicibacter	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.11	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	0.27	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	0.35	0.17	0.51	0.51	0.65	0.17
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;Other;Other	0.02 (0.01 - 0.03)	0.02 (0.01 - 0.03)	0.92	0.01 (0.01 - 0.02)	0.28	0.01 (0.00 - 0.02)	0.63	0.01 (0.00 - 0.03)	0.01 (0.00 - 0.03)	0.77	0.01 (0.00 - 0.02)	0.92	0.51	0.47	0.81	0.51	0.80
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__;g__	0.01 (0.01 - 0.03)	0.01 (0.01 - 0.02)	0.92	0.02 (0.01 - 0.03)	0.16	0.01 (0.00 - 0.02)	0.43	0.01 (0.00 - 0.02)	0.01 (0.00 - 0.02)	0.85	0.01 (0.00 - 0.01)	1.00	0.39	0.05	0.76	0.56	0.39
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Christensenellaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.15	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.79	0.97	0.25	0.81	0.39	0.63
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Christensenellaceae;g__Christensenella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.42	0.81	0.61	0.61	0.39	0.68
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.04 *	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.40	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.11	0.01 *	0.28	0.10	0.02	0.09
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__	0.00 (0.00 - 0.01)	0.01 (0.00 - 0.02)	0.13	0.00 (0.00 - 0.02)	1.00	0.01 (0.00 - 0.04)	0.28	0.01 (0.00 - 0.04)	0.01 (0.00 - 0.01)	0.11	0.01 (0.01 - 0.04)	0.49	0.11	0.43	0.71	0.61	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__Clostridium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.94	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.83	0.00 (0.00 - 0.00)	0.35	0.47	0.51	0.71	0.86	0.68
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Clostridiaceae;g__SMB53	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.51	0.51	0.76	0.71	0.97
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Dehalobacteriaceae;g__Dehalobacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__Anaerofustis	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	1.00	0.35	0.71	0.31	1.00	0.44
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Eubacteriaceae;g__Pseudoramibacter_Eubacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.42	1.00	0.92	0.81	0.71	0.91
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.92	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.13	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.43	0.00 (0.00 - 0.00)	0.01	0.65	0.28	0.31	0.56	0.01 *
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__	0.13 (0.10 - 0.14)	0.10 (0.06 - 0.14)	0.43	0.11 (0.09 - 0.14)	0.77	0.15 (0.07 - 0.19)	0.19	0.11 (0.09 - 0.12)	0.12 (0.08 - 0.13)	0.77	0.12 (0.08 - 0.13)	0.77	0.81	0.86	0.56	0.17	0.80
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Anaerostipes	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.05	0.00 (0.00 - 0.00)	0.35	0.00 (0.00 - 0.00)	0.73	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.14	0.00 (0.00 - 0.00)	0.67	0.86	0.47	0.92	0.25	0.48
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Blautia	0.08 (0.08 - 0.09)	0.08 (0.05 - 0.11)	0.63	0.09 (0.07 - 0.10)	0.70	0.10 (0.07 - 0.14)	0.28	0.09 (0.08 - 0.11)	0.10 (0.09 - 0.12)	0.16	0.11 (0.07 - 0.14)	0.28	0.56	0.31	0.13	0.07	0.58
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Coprococcus	0.02 (0.01 - 0.03)	0.02 (0.01 - 0.03)	0.38	0.03 (0.02 - 0.04)	0.03 *	0.03 (0.02 - 0.04)	0.05 *	0.02 (0.01 - 0.02)	0.02 (0.01 - 0.02)	0.56	0.02 (0.01 - 0.03)	0.43	0.31	0.56	0.03	0.17	0.14
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Dorea	0.01 (0.01 - 0.01)	0.02 (0.01 - 0.03)	0.01 **	0.01 (0.01 - 0.01)	0.77	0.01 (0.01 - 0.02)	0.16	0.01 (0.01 - 0.01)	0.02 (0.01 - 0.03)	0.01 **	0.01 (0.01 - 0.01)	1.00	0.86	0.31	0.51	0.43	0.91
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Epulopiscium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.76	0.76	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Lachnobacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.61	0.56	0.35	1.00	0.32
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Lachnospira	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.10	0.00 (0.00 - 0.01)	0.70	0.01 (0.00 - 0.01)	0.85	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.53	0.01 (0.00 - 0.01)	0.11	0.76	0.81	0.56	0.71	0.17
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Moryella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	1.00	1.00	1.00	0.71	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Oribacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__Roseburia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.63	0.00 (0.00 - 0.00)	0.85	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.73	0.00 (0.00 - 0.00)	0.53	0.81	0.86	0.61	1.00	0.44
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Lachnospiraceae;g__[Ruminococcus]	0.01 (0.00 - 0.03)	0.03 (0.02 - 0.06)	0.00 **	0.01 (0.01 - 0.02)	0.77	0.02 (0.01 - 0.02)	0.85	0.02 (0.01 - 0.06)	0.05 (0.02 - 0.08)	0.02 *	0.02 (0.02 - 0.05)	1.00	0.92	0.65	0.47	0.31	0.80
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.47	1.00	0.76	0.51	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__Peptococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.51	0.51	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptococcaceae;g__rc4-4	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.20	0.00 (0.00 - 0.00)	1.00	0.22	0.71	0.76	0.81	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Peptostreptococcaceae;g__Peptostreptococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	0.71	0.71	0.71	0.48
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.81	1.00	0.97	0.47	0.53
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__	0.05 (0.02 - 0.09)	0.05 (0.02 - 0.09)	0.85	0.05 (0.03 - 0.08)	0.77	0.05 (0.03 - 0.08)	0.03 *	0.03 (0.02 - 0.04)	0.04 (0.03 - 0.05)	0.08	0.04 (0.03 - 0.06)	0.23	0.81	0.31	0.65	0.39	0.39
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Anaerotruncus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.42	0.86	0.03	0.97	0.07	0.08
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Faecalibacterium	0.07 (0.06 - 0.09)	0.06 (0.05 - 0.09)	0.19	0.09 (0.08 - 0.10)	0.23	0.06 (0.02 - 0.10)	0.38	0.03 (0.00 - 0.08)	0.05 (0.01 - 0.07)	0.85	0.03 (0.00 - 0.05)	0.92	0.86	0.97	0.56	0.81	0.39
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Oscillospira	0.01 (0.01 - 0.01)	0.01 (0.01 - 0.02)	0.56	0.01 (0.01 - 0.02)	0.92	0.01 (0.00 - 0.02)	0.11	0.01 (0.00 - 0.01)	0.01 (0.01 - 0.02)	0.01 **	0.01 (0.01 - 0.01)	0.28	0.39	0.35	0.97	0.25	0.32
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Ruminococcaceae;g__Ruminococcus	0.01 (0.00 - 0.05)	0.01 (0.00 - 0.03)	0.56	0.02 (0.01 - 0.05)	0.04 *	0.02 (0.00 - 0.08)	0.16	0.01 (0.00 - 0.02)	0.01 (0.00 - 0.01)	0.85	0.02 (0.00 - 0.08)	0.00	0.61	0.81	0.43	0.17	0.68
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Syntrophomonadaceae;g__Syntrophomonas	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Acidaminococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	0.18	0.43	0.97	0.28	0.51	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Dialister	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.83	0.01 (0.00 - 0.01)	0.29	0.00 (0.00 - 0.01)	0.36	0.00 (0.00 - 0.02)	0.00 (0.00 - 0.02)	0.49	0.01 (0.00 - 0.02)	0.29	0.97	0.92	0.43	0.47	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Megamonas	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.65	0.31	1.00	0.56	0.53
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Megasphaera	0.00 (0.00 - 0.02)	0.00 (0.00 - 0.01)	0.06	0.00 (0.00 - 0.00)	0.06	0.00 (0.00 - 0.00)	0.14	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.01)	1.00	0.71	0.47	1.00	0.28	0.22
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Mitsuokella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	0.76	0.76	0.71	0.56	0.35
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Phascolarctobacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.14	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.18	0.13	0.15	0.61	0.56	0.97
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__Veillonellaceae;g__Veillonella	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.94	0.00 (0.00 - 0.00)	0.24	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.12	0.00 (0.00 - 0.00)	0.29	0.43	0.97	0.76	0.35	0.85
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	0.72	0.00 (0.00 - 0.00)	0.44	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.81	0.00 (0.00 - 0.00)	0.80	0.61	0.86	0.71	0.81	0.91
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Mogibacteriaceae];g__Mogibacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.37	0.25	0.71	0.47	0.47	0.19
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Anaerococcus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	1.00	0.71	1.00	1.00	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Finegoldia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.51	0.51	1.00
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Parvimonas	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__Peptoniphilus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	1.00	0.47	0.76	0.31	0.48
k__Bacteria;p__Firmicutes;c__Clostridia;o__Clostridiales;f__[Tissierellaceae];g__WAL_1855D	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	1.00	0.56	0.76	0.76	0.48
k__Bacteria;p__Firmicutes;c__Clostridia;o__SHA-98;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__	0.01 (0.00 - 0.02)	0.01 (0.00 - 0.02)	0.85	0.01 (0.00 - 0.01)	0.92	0.00 (0.00 - 0.01)	0.56	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.01)	0.92	0.00 (0.00 - 0.00)	0.19	0.65	0.51	0.97	0.47	0.32
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Allobaculum	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	0.81	0.76	1.00
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Bulleidia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.76	1.00	0.39	0.81	0.53
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Catenibacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.37	0.51	0.81	0.51	0.76	0.32
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Coprobacillus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.21	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.35	0.00 (0.00 - 0.00)	0.29	0.47	0.28	0.92	0.17	0.25
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__Holdemania	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	0.80	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	1.00	0.92	0.71	0.47	0.28	0.85
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__[Eubacterium]	0.00 (0.00 - 0.01)	0.00 (0.00 - 0.02)	0.43	0.00 (0.00 - 0.01)	0.38	0.00 (0.00 - 0.00)	0.55	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.05 *	0.00 (0.00 - 0.00)	0.12	0.17	0.20	0.71	0.61	0.53
k__Bacteria;p__Firmicutes;c__Erysipelotrichi;o__Erysipelotrichales;f__Erysipelotrichaceae;g__cc_115	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.40	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.76	0.43	0.97	0.86	0.80
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Fusobacteriaceae;g__Fusobacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.10	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	0.19	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.02)	0.38	0.00 (0.00 - 0.00)	0.49	0.05	0.25	0.76	0.81	0.39
k__Bacteria;p__Fusobacteria;c__Fusobacteriia;o__Fusobacteriales;f__Leptotrichiaceae;g__Sneathia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Lentisphaerae;c__[Lentisphaeria];o__Victivallales;f__Victivallaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	1.00	0.76	0.76	1.00
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Caulobacterales;f__Caulobacteraceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.71	1.00	0.74
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__RF32;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.79	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.20	0.81	0.65	0.76	0.53
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Methylobacteriaceae;g__Methylobacte	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	1.00	1.00	1.00
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Rhizobiales;f__Rhizobiaceae;g__Agrobacterium	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.18	1.00	0.71	0.97	0.39	0.48
k__Bacteria;p__Proteobacteria;c__Alphaproteobacteria;o__Sphingomonadales;f__Sphingomonadaceae;g__Sphin	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	1.00	0.51	1.00	0.76	0.74
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Alcaligenaceae;g__Sutterella	0.01 (0.01 - 0.01)	0.02 (0.01 - 0.02)	0.03 *	0.01 (0.00 - 0.02)	0.77	0.01 (0.00 - 0.01)	0.08	0.01 (0.01 - 0.01)	0.01 (0.01 - 0.02)	0.77	0.01 (0.00 - 0.01)	0.19	0.35	0.71	0.81	0.56	0.44
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Burkholderiaceae;g__Lautropia	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.76	0.76	1.00
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Comamonadaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	1.00	1.00	0.71	0.74
k__Bacteria;p__Proteobacteria;c__Betaproteobacteria;o__Burkholderiales;f__Oxalobacteraceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.81	0.76	0.76	0.76	1.00
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.20	0.76	0.22	0.76	0.28
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Bilophil	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.02 *	0.00 (0.00 - 0.00)	0.62	0.00 (0.00 - 0.00)	0.73	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.03 *	0.00 (0.00 - 0.00)	0.53	0.22	0.11	0.76	0.51	0.80
k__Bacteria;p__Proteobacteria;c__Deltaproteobacteria;o__Desulfovibrionales;f__Desulfovibrionaceae;g__Desulfo	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.76	0.76	0.31	0.97	0.32
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Campylobacteraceae;g__Arc	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	1.00	0.71	1.00	1.00	1.00
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Campylobacteraceae;g__Car	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	1.00	0.47	1.00	0.71	0.74
k__Bacteria;p__Proteobacteria;c__Epsilonproteobacteria;o__Campylobacterales;f__Helicobacteraceae;g__Helico	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	1.00	1.00	1.00	0.71	0.74
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Aeromonadales;f__Succinivibrionaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.71	1.00	0.71	1.00	0.74
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	0.71	1.00	0.71	0.74
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.01)	0.29	0.00 (0.00 - 0.00)	0.38	0.00 (0.00 - 0.00)	0.43	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.70	0.00 (0.00 - 0.00)	1.00	0.13	0.43	0.47	0.35	0.53
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Citrob	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.42	0.00 (0.00 - 0.00)	0.58	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.51	0.51	0.76	1.00	0.74
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Klebsi	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.64	0.00 (0.00 - 0.00)	0.29	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.85	0.00 (0.00 - 0.00)	0.55	0.43	0.47	0.71	0.97	0.97
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Proteu	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	1.00	1.00	0.97	1.00	0.97
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Enterobacteriales;f__Enterobacteriaceae;g__Serrat	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.71	0.71	1.00	0.71	0.74
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Legionellales;f__Legionellaceae;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	1.00	1.00	1.00
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Aggregatibac	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	1.00	1.00	0.76	0.76	1.00
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pasteurellales;f__Pasteurellaceae;g__Haemophilus	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.28	0.00 (0.00 - 0.00)	0.93	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.59	0.00 (0.00 - 0.00)	0.10	0.71	0.86	0.25	0.07	0.48
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Moraxellaceae;g__Acinetoba	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	0.71	1.00	0.71	0.74
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Pseudomonadales;f__Pseudomonadaceae;g__Pseu	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.51	0.51	0.51	0.51	1.00
k__Bacteria;p__Proteobacteria;c__Gammaproteobacteria;o__Xanthomonadales;f__Xanthomonadaceae;g__Stenc	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	0.37	1.00	0.47	0.71	0.47	0.32
k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Dethiosulfovibrionaceae;g__Pyramidobacter	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	1.00	0.71	1.00	0.71	0.74
k__Bacteria;p__Synergistetes;c__Synergistia;o__Synergistales;f__Synergistaceae;Other	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	1.00	1.00	1.00
k__Bacteria;p__TM7;c__TM7-3;o__;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.37	0.00 (0.00 - 0.00)	1.00	0.51	0.35	0.31	0.20	0.74
k__Bacteria;p__TM7;c__TM7-3;o__CW040;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.76	0.76	0.76	0.76	1.00
k__Bacteria;p__Tenericutes;c__Mollicutes;o__RF39;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.51	0.76	0.71	1.00	0.74
k__Bacteria;p__Tenericutes;c__RF3;o__ML615J-28;f__;g__	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.18	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.51	0.76	0.39	0.76	0.28
k__Bacteria;p__Verrucomicrobia;c__Verrucomicrobiae;o__Verrucomicrobiales;f__Verrucomicrobiaceae;g__Akkerm	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	0.86	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	1.00	0.00 (0.00 - 0.00)	0.00 (0.00 - 0.00)	NA	0.00 (0.00 - 0.00)	NA	0.86	0.76	0.71	1.00	0.74

[1] Intra-group differences from day 0 were compared by a Mann-Whitney U-test, *P<0.05

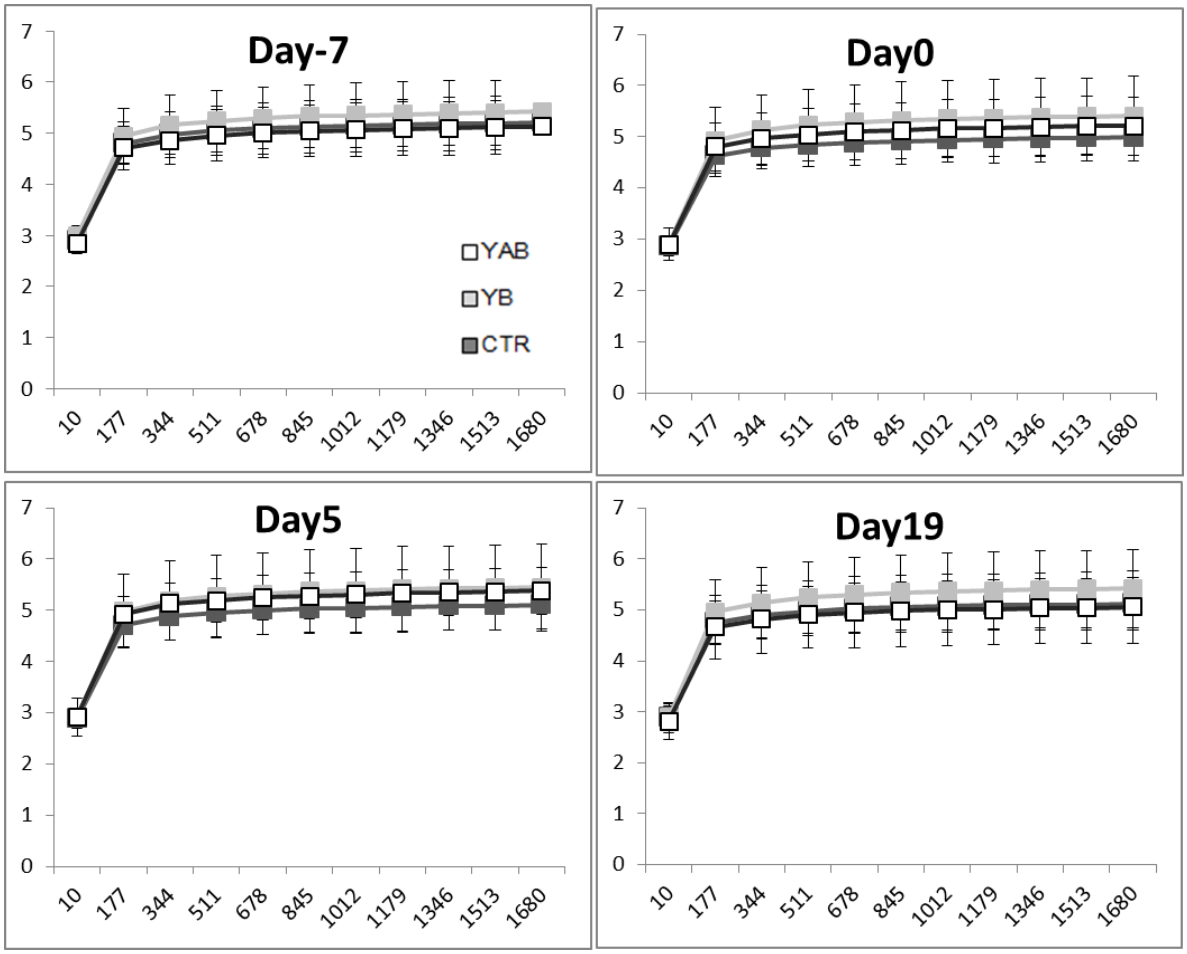
[2] Inter-group differences were compared by Kruskal-walis adjusted for each data at day 0 followed by a post hoc Bonferroni test. *P<0.017, **P<0.003

[3] Median(Interquatile range) (all such values).

[4] Not applicable.

YAB, subjects ingested yoghurt during the periods of animal-based diet and balanced diet; YB, subjects ingested yoghurt during the periods of balanced diet; CTR, control.

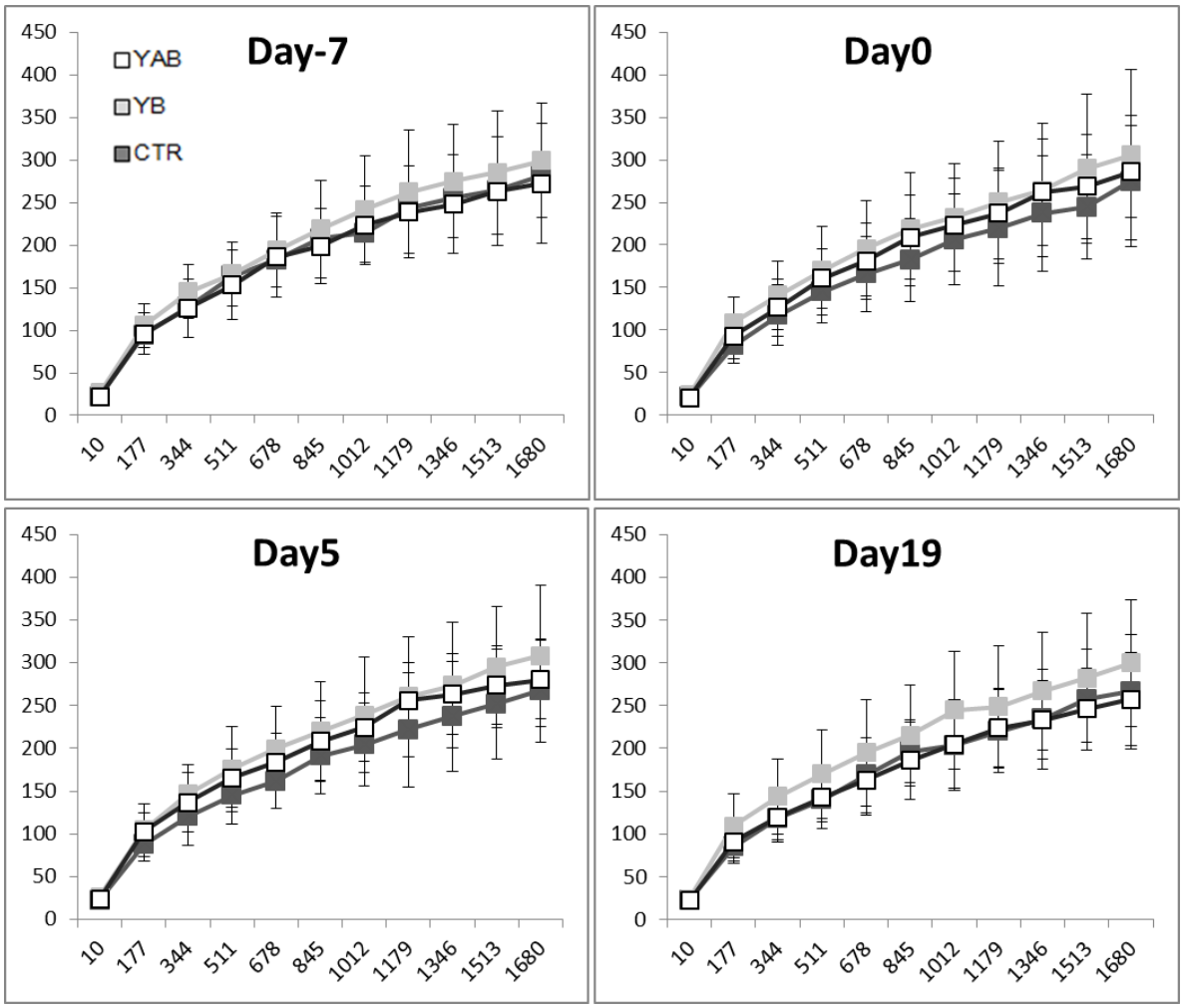
Figure S1. Rarefaction analysis of Shannon diversity index.



None of the values significantly differed within the same group (paired Student's t-test) or between groups (ANCOVA, Bonferroni test) at the end of rarefaction curve.

White: YAB, subjects who ingested yoghurt during both the animal-based and balanced diet periods.
Grey: YB, subjects who ingested yoghurt during the balanced diet period.
Black: CTR, control.

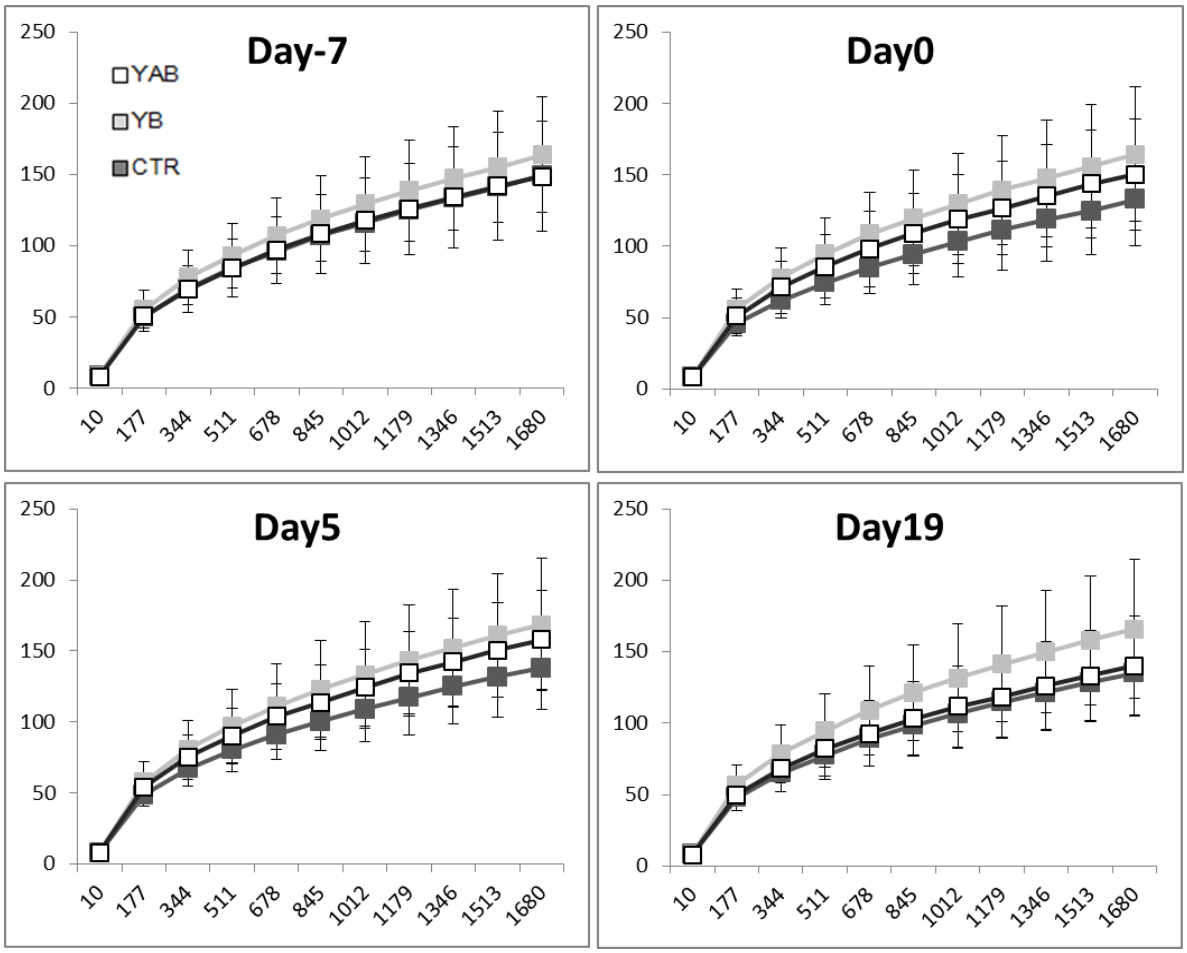
Figure S2. Rarefaction analysis of Chao1 index.



None of the values significantly differed within the same group (paired Student's t-test) or between groups (ANCOVA, Bonferroni test) at the end of rarefaction curve.

White: YAB, subjects who ingested yoghurt during both the animal-based and balanced diet periods.
Grey: YB, subjects who ingested yoghurt during the balanced diet period.
Black: CTR, control.

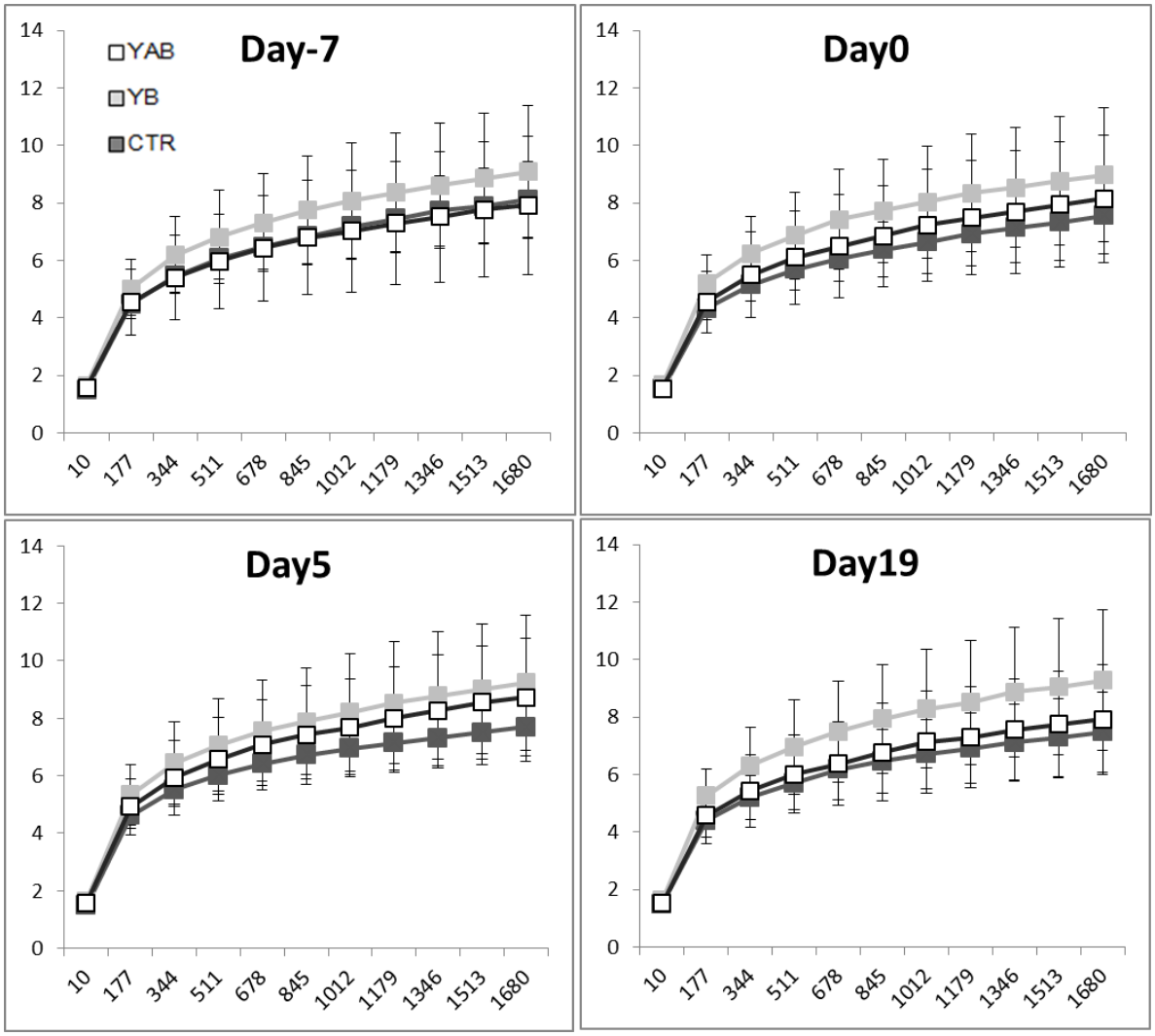
Figure S3. Rarefaction analysis of number of operational taxonomic units (OTUs).



None of the values significantly differed within the same group (paired Student's t-test) or between groups (ANCOVA, Bonferroni test) at the end of rarefaction curve.

White: YAB, subjects who ingested yoghurt during both the animal-based and balanced diet periods.
Grey: YB, subjects who ingested yoghurt during the balanced diet period.
Black: CTR, control.

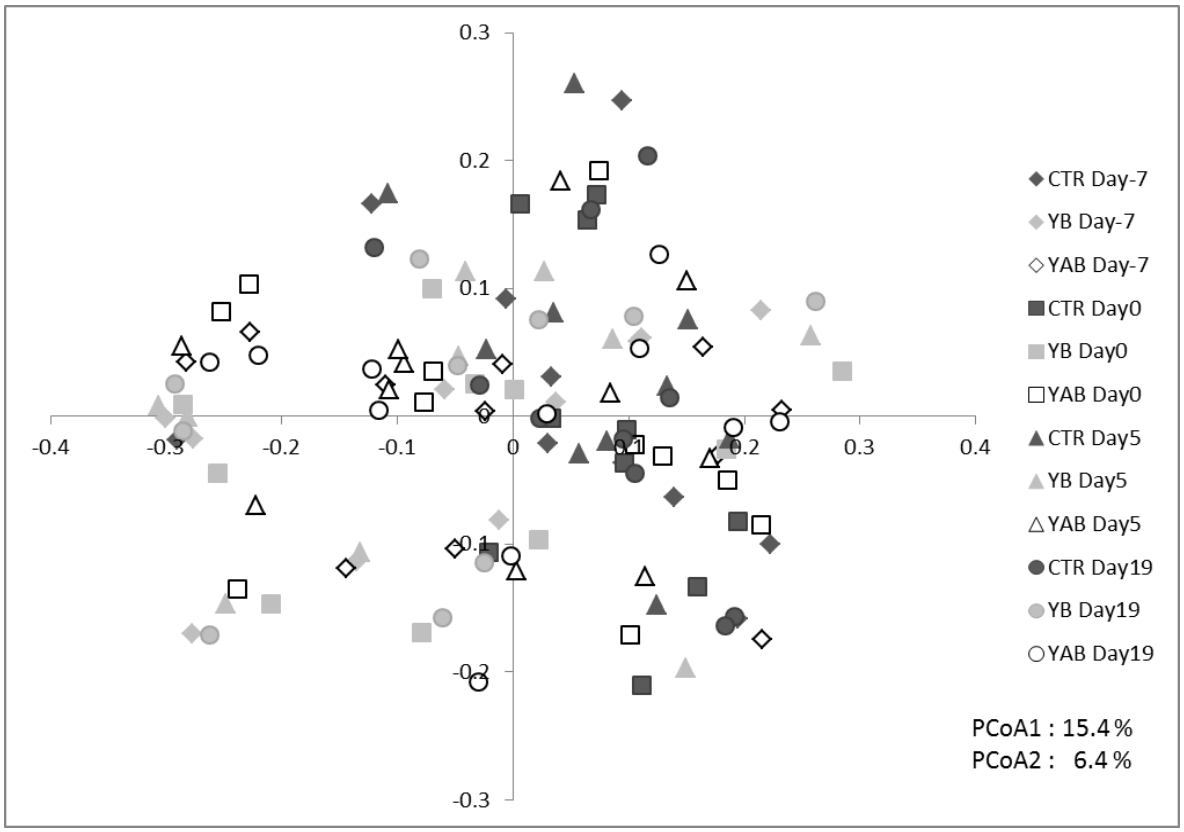
Figure S4. Rarefaction analysis of phylogenetic distance (PD) whole tree.



None of the values significantly differed within the same group (paired Student's t-test) or between groups (ANCOVA, Bonferroni test) at the end of rarefaction curve.

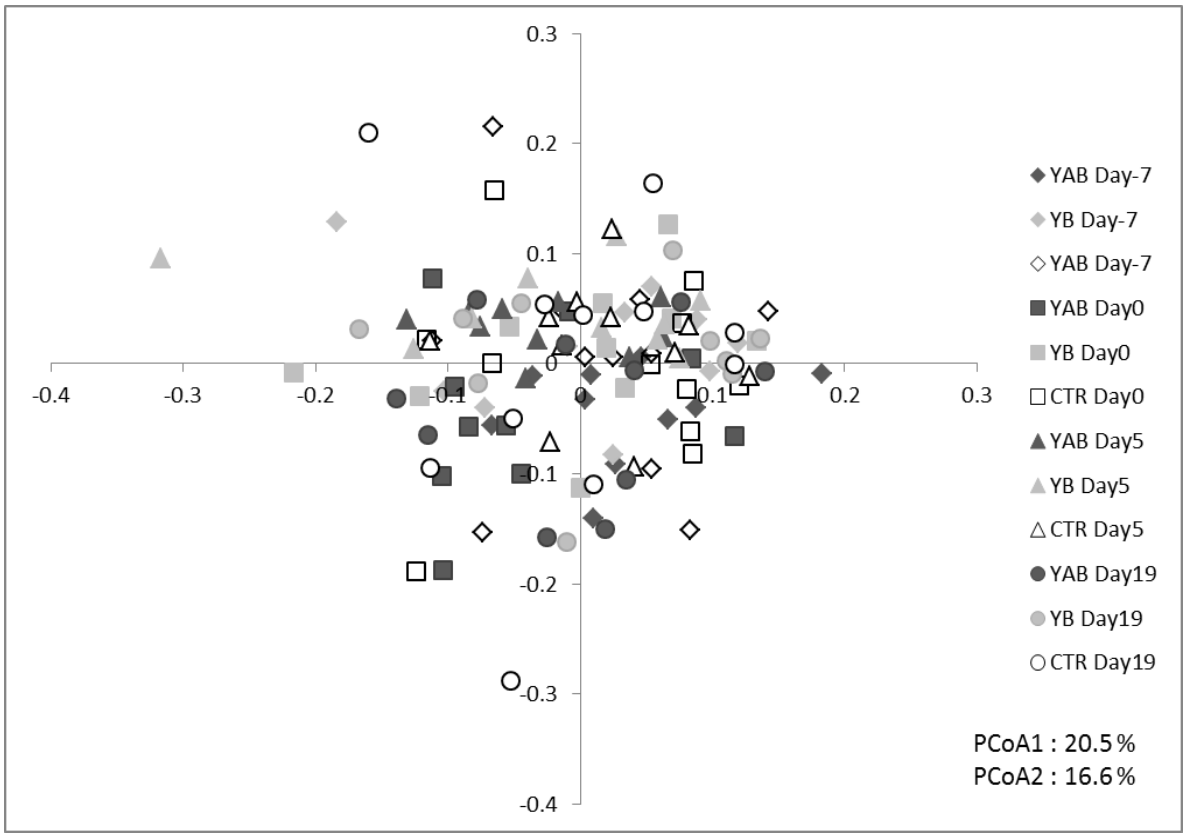
White: YAB, subjects who ingested yoghurt during both the animal-based and balanced diet periods.
Grey: YB, subjects who ingested yoghurt during the balanced diet period.
Black: CTR, control.

Figure S5. Unweighted UniFrac principal co-ordinate analysis (PCoA) of gut microbiota for each group at each time point.



White: YAB, subjects who ingested yoghurt during both the animal-based and balanced diet periods.
Grey: YB, subjects who ingested yoghurt during the balanced diet period.
Black: CTR, control.

Figure S6. Weighted UniFrac principal co-ordinate analysis (PCoA) of gut microbiota for each group at each time point.



White: YAB, subjects who ingested yoghurt during both the animal-based and balanced diet periods.
Grey: YB, subjects who ingested yoghurt during the balanced diet period.
Black: CTR, control.