

Supplementary Tables**Supplementary Table 1: Abundance of all the bacteria analysed at baseline and post-intervention**

Order	Family	Genus	Species	Contr ol (Pre)	Contr ol (Post)	AFO-202 (Pre)	AFO-202 (Post)	N-163 (Pre)	N-163 (Post)	AFO-202+N-163 (Pre)	AFO-202+N-163 (Post)	Telmisarta n (Pre)	Telmisarta n (Post)
'Erysipelotrichales	'Erysipelotrichaceae	'Allobaculum	'_	12083	8007	15713	6542	4491	7214	9897	4360	6375	622
'Turicibacterales	'Turicibacteraceae	'Turicibacter	'_	12538	3346	6159	2749	1470 2	2976	9032	630	9408	786
'Desulfovibrionales	'Desulfovibrionaceae	'_	'_	306	8016	1398	10096	1070	7145	2351	3790	3882	6012
'Clostridiales	'Clostridiaceae	'Other	'Other	7455	3479	3689	2806	8626	4410	4842	661	7143	723
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'_	8555	11554	3433	5804	1056	2815	178	3824	416	254
'Lactobacillales	'Streptococcaceae	'Lactococcus	'_	5038	1081	2755	2146	4802	5395	2440	2577	2239	1948
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'_	1091	1562	1707	2831	2262	1319	2690	2355	1596	8412
'Bacteroidales	'[Paraprevotellaceae]	'[Prevotella]	'_	962	540	1777	1865	1572	3708	3086	1520	1674	7582
'Clostridiales	'_	'_	'_	17	5265	680	5964	620	837	1655	988	1552	6029
'Deferribacterales	'Deferribacteraceae	'Mucispirillum	'schaedleri	36	2087	1486	1644	205	2449	2438	832	4795	1921
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'acidifaciens	322	2633	781	2161	988	2498	1623	2156	983	2571
'Clostridiales	'_	'_	'_	497	1386	760	1478	365	372	2325	1398	853	2764
'Verrucomicrobiales	'Verrucomicrobiaceae	'Akkermansia	'muciniphila	2151	0	1963	746	186	0	2422	0	2305	320
'Bacteroidales	'Rikenellaceae	'_	'_	475	616	849	769	1096	2251	1147	972	696	1175
'Enterobacteriales	'Enterobacteriaceae	'Other	'Other	0	100	5	0	43	96	17	9682	17	40
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'_	1729	594	1119	459	1351	1409	625	859	883	513
'Bacteroidales	'S24-7	'_	'_	592	494	953	796	1207	1046	676	1770	625	411
'Clostridiales	'Lachnospiraceae	'_	'_	149	826	914	1194	868	861	553	899	752	1545
'Clostridiales	'Peptostreptococcaceae	'_	'_	1705	1344	7	691	1190	579	1287	310	1121	181
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	1015	582	1118	398	617	167	1002	466	2041	898
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	90	708	955	1191	873	917	448	991	444	1468

'Bifidobacteriales	'Bifidobacteriaceae	'Bifidobacterium	'pseudolongum	711	180	1236	374	2092	602	671	82	1317	111
'Enterobacteriales	'Enterobacteriaceae	'Proteus	'_	14	1432	42	520	48	1123	157	2722	0	1153
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'Other	1456	2494	362	844	140	579	55	854	64	111
'Bacteroidales	'S24-7	'_	'_	442	819	804	555	993	722	575	784	740	329
'Bacteroidales	'Porphyromonadaceae	'Parabacteroides	'distasonis	111	699	194	700	361	689	330	585	320	1437
'Clostridiales	'Clostridiaceae	'_	'_	389	387	384	572	1317	521	384	103	1242	79
'Clostridiales	'_	'_	'_	41	998	289	1118	98	839	392	421	420	536
'Desulfovibrionales	'Desulfovibrionaceae	'Desulfovibrio	'_	0	734	8	739	21	1998	142	850	65	503
'Bacteroidales	'S24-7	'_	'_	331	155	629	495	423	1087	551	327	708	271
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	1261	399	411	280	545	387	456	388	625	135
'Bacteroidales	'S24-7	'_	'_	216	471	457	163	831	341	827	530	480	527
'Erysipelotrichales	'Erysipelotrichaceae	'Clostridium	'cocleatum	0	519	95	1185	480	828	52	587	319	696
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	532	50	1331	257	313	12	650	172	1164	266
'Clostridiales	'_	'_	'_	250	522	302	564	161	144	855	488	319	995
'Clostridiales	'Lachnospiraceae	'Other	'Other	35	611	267	832	332	628	164	606	481	436
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	238	0	1211	25	1233	0	995	90	311	87
'Turicibacteriales	'Turicibacteraceae	'Turicibacter	'_	822	269	472	206	824	217	627	0	586	0
'Clostridiales	'Lachnospiraceae	'_	'_	119	119	46	119	721	1218	638	139	611	253
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'_	18	180	73	283	316	193	114	190	460	2042
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	82	267	400	804	232	162	203	725	293	621
'Clostridiales	'Clostridiaceae	'Other	'Other	923	314	362	132	678	388	527	51	317	70
'Clostridiales	'Lachnospiraceae	'Roseburia	'_	88	408	466	878	156	255	0	85	488	927
'Clostridiales	'Lachnospiraceae	'_	'_	66	461	386	658	285	100	349	348	338	698
'Bacteroidales	'S24-7	'_	'_	389	98	291	129	556	235	1359	128	305	104
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	44	466	522	0	71	577	216	1253	123	126
'Clostridiales	'_	'_	'_	224	104	692	49	882	13	640	83	418	236
'Bacteroidales	'_	'_	'_	82	323	358	299	407	428	353	404	357	267
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	38	297	349	454	350	387	122	399	126	562
'Bacteroidales	'S24-7	'_	'_	146	199	230	549	215	429	273	567	322	144
'Bacteroidales	'S24-7	'_	'_	153	340	338	131	411	262	379	297	237	410
'Clostridiales	'_	'_	'_	7	283	199	275	698	342	113	322	116	590

'Clostridiales	'Lachnospiraceae	'Other	'Other	263	169	65	100	511	627	171	218	562	245
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	386	62	162	433	227	221	217	119	375	686
'Erysipelotrichales	'Erysipelotrichaceae	'Allobaculum	'_	512	501	415	301	199	402	136	102	286	0
'Desulfovibrionales	'Desulfovibrionaceae	'Desulfovibrio	'C21_c20	47	98	333	294	111	846	307	171	604	43
'Bacteroidales	'S24-7	'_	'_	212	120	366	271	198	585	297	255	383	152
'Bacteroidales	'_	'_	'_	53	177	228	178	215	230	380	424	524	345
'Lactobacillales	'Streptococcaceae	'Lactococcus	'garvieae	167	0	0	0	21	24	17	2375	11	8
'Clostridiales	'_	'_	'_	0	0	227	0	2184	0	0	196	0	0
'Enterobacteriales	'Enterobacteriaceae	'Proteus	'_	0	507	0	184	0	408	54	1019	0	386
'Clostridiales	'Lachnospiraceae	'_	'_	76	103	760	0	387	303	55	25	44	786
'Bacteroidales	'S24-7	'_	'_	162	120	376	103	300	188	533	264	399	74
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	38	31	471	179	119	802	87	159	278	331
'Clostridiales	'_	'_	'_	273	0	690	38	459	53	522	18	371	44
'Clostridiales	'Clostridiaceae	'Clostridium	'Other	145	196	179	284	529	258	138	0	707	0
'Clostridiales	'Lachnospiraceae	'_	'_	37	179	867	356	82	98	774	16	0	15
'Clostridiales	'Clostridiaceae	'Other	'Other	542	233	252	97	379	294	356	0	215	49
'Clostridiales	'_	'_	'_	403	21	25	0	135	90	49	1299	313	54
'Clostridiales	'Clostridiaceae	'Other	'Other	726	281	307	127	276	149	209	0	255	57
'Bacteroidales	'S24-7	'_	'_	163	205	408	199	396	224	209	282	196	101
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	301	151	295	118	175	41	296	137	601	260
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'_	11	20	74	66	40	20	253	94	170	1596
'Bacteroidales	'S24-7	'_	'_	165	67	318	220	210	417	293	193	327	125
'Clostridiales	'_	'_	'_	264	0	754	39	401	46	443	10	323	36
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	310	177	363	58	305	88	241	323	120	281
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	69	164	329	288	266	60	291	110	284	393
'Clostridiales	'Ruminococcaceae	'Anaerotruncus	'_	38	112	189	113	198	62	429	268	638	122
'Burkholderiales	'Alcaligenaceae	'Sutterella	'_	257	399	217	107	159	148	401	226	191	63
'Bacteroidales	'S24-7	'_	'_	169	83	368	85	188	133	439	222	394	54
'CW040	'F16	'_	'_	510	117	0	0	0	253	161	532	329	229
'Clostridiales	'_	'_	'_	305	0	37	0	1318	0	29	121	320	0
'Clostridiales	'Other	'Other	'Other	456	360	0	170	312	151	369	0	276	0

'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	146	173	175	91	385	316	100	203	168	325
'Bacteroidales	'S24-7	'_	'_	206	0	230	0	356	110	427	78	476	153
'Bacteroidales	'Rikenellaceae	'_	'_	0	135	162	264	181	193	144	460	259	134
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	656	492	0	0	0	188	486	16	62	30
'Clostridiales	'Lachnospiraceae	'_	'_	0	126	118	244	75	266	77	398	250	359
'Clostridiales	'Clostridiaceae	'Other	'Other	0	119	164	235	341	270	0	0	693	39
'Clostridiales	'Lachnospiraceae	'_	'_	46	160	111	205	70	503	87	350	78	239
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	117	249	97	220	162	264	171	258	160	138
'Lactobacillales	'Enterococcaceae	'Enterococcus	'_	45	822	42	61	183	33	28	486	32	0
'Bacteroidales	'Rikenellaceae	'_	'_	39	119	147	230	165	162	126	388	239	96
'Bacteroidales	'S24-7	'_	'_	188	40	153	59	351	132	401	81	208	79
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'reuteri	517	428	157	340	92	0	0	81	0	0
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'acidifaciens	0	124	90	202	141	132	251	386	161	127
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	75	51	162	204	98	14	83	237	202	451
'Enterobacteriales	'Enterobacteriaceae	'Escherichia	'coli	0	0	0	0	0	0	0	1574	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	16	135	262	137	31	67	185	308	152	280
'Clostridiales	'_	'_	'_	117	29	236	17	288	12	312	42	228	254
'Bacteroidales	'S24-7	'_	'_	84	250	173	62	166	126	247	130	157	92
'Clostridiales	'_	'_	'_	159	0	0	0	283	32	0	0	988	0
'Clostridiales	'Other	'Other	'Other	11	230	149	27	98	39	57	109	463	251
'Clostridiales	'Lachnospiraceae	'_	'_	51	287	67	224	40	270	47	238	46	163
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	88	190	185	272	278	37	79	43	148	63
'Clostridiales	'Lachnospiraceae	'_	'_	28	17	54	62	51	288	167	158	390	117
'Enterobacteriales	'Enterobacteriaceae	'Klebsiella	'Other	0	225	0	0	0	0	18	1056	0	33
'Clostridiales	'Lachnospiraceae	'_	'_	11	51	105	99	77	364	105	229	76	187
'Enterobacteriales	'Enterobacteriaceae	'Klebsiella	'_	0	210	0	0	0	0	15	1051	0	27
'Clostridiales	'_	'_	'_	11	32	491	61	37	226	48	128	0	261
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'_	167	857	26	183	21	0	0	0	4	0
'Clostridiales	'Other	'Other	'Other	27	102	233	117	106	50	129	183	57	248
'Clostridiales	'_	'_	'_	0	176	114	243	100	0	191	213	209	0
'Erysipelotrichales	'Erysipelotrichaceae	'Allobaculum	'_	0	0	0	0	6	978	0	0	203	59
'Clostridiales	'_	'_	'_	72	0	267	0	368	0	264	49	131	84

'Clostridiales	'Lachnospiraceae	'_	'_	34	15	188	165	115	48	161	19	207	271
'Clostridiales	'_	'_	'_	4	263	54	8	0	0	107	246	362	173
'Clostridiales	'Other	'Other	'Other	18	149	70	183	42	179	71	168	58	269
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'reuteri	339	470	55	93	0	92	0	157	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	40	77	88	244	78	0	123	123	158	273
'Clostridiales	'Lachnospiraceae	'_	'_	27	122	93	193	74	147	142	211	50	139
'Bacteroidales	'S24-7	'_	'_	90	0	0	103	0	254	134	318	158	125
'Bacteroidales	'S24-7	'_	'_	91	55	97	87	190	87	150	154	64	111
'Clostridiales	'Lachnospiraceae	'_	'_	22	31	69	45	109	64	257	54	315	119
'Bacteroidales	'S24-7	'_	'_	40	60	75	198	84	158	90	216	104	58
'Bacteroidales	'S24-7	'_	'_	123	36	161	39	95	261	151	82	60	74
'Clostridiales	'Lachnospiraceae	'_	'_	22	229	165	192	76	143	66	66	19	98
'Clostridiales	'_	'_	'_	22	40	18	109	12	39	50	370	28	376
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	121	63	196	33	270	21	115	98	110	30
'Clostridiales	'_	'_	'_	43	53	83	95	287	0	74	101	200	118
'Clostridiales	'Clostridiaceae	'Other	'Other	100	0	0	0	362	211	330	47	0	0
'Turicibacterales	'Turicibacteraceae	'Turicibacter	'_	521	0	0	0	230	0	140	0	125	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	49	0	105	81	199	47	117	64	193	143
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	13	36	105	75	193	13	152	67	215	119
'Clostridiales	'Dehalobacteriaceae	'Dehalobacterium	'_	20	100	38	256	0	118	29	94	43	268
'Bacillales	'Staphylococcaceae	'Staphylococcus	'Other	177	88	72	81	156	109	35	89	110	34
'Bacteroidales	'Rikenellaceae	'_	'_	13	139	62	140	55	182	64	121	61	97
'Clostridiales	'Lachnospiraceae	'_	'_	155	63	109	114	109	63	85	43	87	98
'Clostridiales	'_	'_	'_	53	0	188	0	289	0	261	0	60	68
'Bacillales	'Staphylococcaceae	'Staphylococcus	'sciuri	184	139	66	63	124	63	131	54	34	41
'Clostridiales	'_	'_	'_	356	25	0	0	346	18	0	40	103	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	72	16	98	119	120	4	117	61	157	124
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	176	34	96	46	190	70	77	84	101	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	34	103	67	101	92	117	91	80	61	120
'Clostridiales	'Lachnospiraceae	'Clostridium	'Other	0	15	32	15	109	387	102	72	85	40
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	56	69	92	61	65	58	67	145	151	85
'Desulfovibrional	'Desulfovibrionacea	'_	'_	4	90	41	188	22	171	41	94	50	148

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'Bacteroidales	'_	'_	'_	32	28	162	23	149	61	92	104	94	103
'Clostridiales	'Lachnospiraceae	'_	'_	22	53	255	0	142	99	0	0	0	272
'Clostridiales	'Dehalobacteriaceae	'Dehalobacterium	'_	0	98	34	203	33	80	24	86	41	239
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	108	52	127	63	214	20	79	83	90	0
'Clostridiales	'Lachnospiraceae	'_	'_	14	63	39	108	22	204	42	168	37	119
'Clostridiales	'Lachnospiraceae	'_	'_	87	48	193	17	82	37	97	70	168	14
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	101	0	0	0	220	0	453
'Bacteroidales	'S24-7	'_	'_	56	33	158	47	129	173	57	0	55	51
'Lactobacillales	'Streptococcaceae	'Streptococcus	'_	0	112	0	106	0	320	0	165	0	44
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	0	126	107	165	171	0	51	0	83	37
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	144	102	60	18	101	17	102	173
'Clostridiales	'Lachnospiraceae	'_	'_	50	11	158	17	88	11	133	4	231	10
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	142	26	59	19	160	49	84	76	74	8
'Clostridiales	'Lachnospiraceae	'_	'_	220	55	7	52	22	135	17	94	25	57
'Erysipelotrichales	'Erysipelotrichaceae	'Clostridium	'cocleatum	0	106	0	222	74	130	0	0	0	119
'Bacteroidales	'S24-7	'_	'_	15	93	36	160	31	85	36	86	53	50
'Clostridiales	'Lachnospiraceae	'_	'_	7	64	40	61	18	156	38	142	27	81
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'_	0	0	0	0	0	0	77	31	55	468
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	87	46	97	65	45	60	110	59	53
'Clostridiales	'Ruminococcaceae	'_	'_	21	81	41	139	27	91	38	67	41	72
'Clostridiales	'Lachnospiraceae	'Other	'Other	42	53	11	86	46	82	39	114	52	90
'Clostridiales	'Lachnospiraceae	'Dorea	'_	23	50	46	63	31	22	67	129	28	154
'Clostridiales	'Lachnospiraceae	'_	'_	0	70	0	78	0	203	0	168	0	94
'Bacteroidales	'S24-7	'_	'_	34	0	130	29	120	0	74	42	168	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	87	96	45	24	89	14	92	138
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'Other	107	83	148	189	52	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	29	39	73	23	85	32	212	34	48
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	24	0	95	52	80	0	108	0	99	101
'Bacteroidales	'S24-7	'_	'_	0	64	43	52	65	92	53	52	55	79
'Bacteroidales	'S24-7	'_	'_	55	0	52	53	76	70	54	53	67	71
'Clostridiales	'[Mogibacteriaceae]	'_	'_	55	44	76	53	100	64	22	64	36	28

'Clostridiales	'Peptococcaceae	'_	'_	18	36	80	152	58	8	74	16	43	42
'Clostridiales	'_	'_	'_	42	0	42	0	312	8	43	23	13	40
'Clostridiales	'_	'_	'_	0	83	36	0	48	0	65	72	0	213
'Bacteroidales	'S24-7	'_	'_	31	33	99	36	100	0	76	45	76	19
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	17	26	25	88	39	6	44	49	85	135
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	15	4	110	14	95	0	76	45	97	53
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	43	0	135	0	81	0	82	39	33	87
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	15	33	35	100	53	93	26	35	57	42
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'reuteri	80	76	103	178	41	0	0	0	0	0
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	112	0	73	0	105	57	71	0	58	0
'Clostridiales	'Lachnospiraceae	'_	'_	12	36	0	0	0	0	66	362	0	0
'Bacteroidales	'S24-7	'_	'_	0	48	0	113	48	152	0	0	64	49
'Turicibacterales	'Turicibacteraceae	'Turicibacter	'_	0	134	0	0	0	0	339	0	0	0
'Bacteroidales	'S24-7	'_	'_	0	128	0	53	62	139	0	0	45	41
'Bacteroidales	'Rikenellaceae	'_	'_	11	84	14	84	23	50	22	61	25	86
'Enterobacteriales	'Enterobacteriaceae	'Other	'Other	0	99	0	0	0	0	0	357	0	0
'Bacteroidales	'Rikenellaceae	'Other	'Other	5	37	40	43	38	102	16	72	47	53
'Bacteroidales	'Porphyromonadaceae	'Parabacteroides	'_	0	63	25	72	18	59	25	81	16	79
'Lactobacillales	'Lactobacillaceae	'Lactobacillus	'Other	87	81	86	146	36	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	47	38	213	15	27	34	60	0
'Bacteroidales	'S24-7	'_	'_	13	22	53	73	29	45	47	78	27	45
'Bacteroidales	'S24-7	'_	'_	15	0	30	83	33	49	23	53	35	109
'Clostridiales	'_	'_	'_	8	43	50	14	40	32	18	121	85	19
'Enterobacteriales	'Enterobacteriaceae	'Klebsiella	'Other	0	82	0	0	0	0	0	348	0	0
'Clostridiales	'_	'_	'_	32	0	73	5	112	12	96	31	63	3
'Clostridiales	'Lachnospiraceae	'Other	'Other	8	24	65	67	32	0	18	23	48	137
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	102	0	134	0	0	56	120	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	67	30	54	66	54	0	71	65
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'acidifaciens	0	31	0	35	0	47	76	145	27	35
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	85	7	29	14	25	114	31	39	51	0
'Clostridiales	'Lachnospiraceae	'Dorea	'_	18	6	0	15	92	44	18	30	98	74

'Enterobacteriales	'Enterobacteriaceae	'Enterobacter	'Other	125	30	0	7	0	49	17	125	0	41
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	82	0	0	0	225	42	45
'Clostridiales	'Ruminococcaceae	'Other	'Other	12	60	63	44	60	27	43	10	61	12
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	68	0	0	0	134	0	184
'Bacteroidales	'Rikenellaceae	'_	'_	0	61	0	55	32	110	0	48	31	43
'Clostridiales	'_	'_	'_	0	12	63	45	0	8	59	47	59	79
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	0	0	0	0	0	0	98	273
'Clostridiales	'Other	'Other	'Other	0	39	0	65	0	92	0	60	18	87
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	47	37	0	0	94	31	79	72
'Bacteroidales	'S24-7	'_	'_	0	28	23	78	34	21	0	46	38	85
'Clostridiales	'Lachnospiraceae	'_	'_	6	111	15	127	5	0	11	65	3	0
'Bacillales	'Staphylococcaceae	'Staphylococcus	'_	53	168	0	30	0	59	0	0	0	27
'Clostridiales	'_	'_	'_	0	0	77	0	87	0	66	0	96	6
'Clostridiales	'_	'_	'_	0	60	0	0	16	0	83	81	87	0
'Clostridiales	'_	'_	'_	0	0	0	219	0	0	0	0	0	101
'Clostridiales	'Other	'Other	'Other	0	15	50	29	33	0	24	77	10	71
'Lactobacillales	'Aerococcaceae	'Aerococcus	'_	7	22	0	85	0	4	0	0	0	187
'Clostridiales	'Ruminococcaceae	'_	'_	0	0	0	0	264	0	33	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	111	0	17	0	0	61	108
'Bacillales	'Staphylococcaceae	'Staphylococcus	'_	40	120	18	0	0	0	28	39	0	36
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	19	14	31	71	25	0	55	36	0	26
'Clostridiales	'_	'_	'_	11	7	36	11	46	0	89	24	0	51
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	6	13	15	110	0	12	11	63	0	43
'RF39	'_	'_	'_	0	0	0	0	0	0	0	0	6	266
'Clostridiales	'Other	'Other	'Other	0	0	19	64	0	140	0	0	0	48
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	12	0	86	63	39	0	15	25	30	0
'Clostridiales	'Lachnospiraceae	'[Ruminococcus]	'gnavus	51	18	0	26	0	0	22	26	27	95
'Clostridiales	'Lachnospiraceae	'_	'_	0	65	0	48	0	101	0	46	0	0
'Clostridiales	'Other	'Other	'Other	0	0	0	81	0	134	0	0	0	45
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	11	23	25	16	56	18	32	18	37	23
'Clostridiales	'_	'_	'_	0	0	0	99	0	0	0	0	69	90
'Clostridiales	'Other	'Other	'Other	38	46	0	67	0	41	21	17	0	11

'Clostridiales	'Other	'Other	'Other	0	0	0	56	0	131	0	0	0	53
'Clostridiales	'Other	'Other	'Other	0	0	40	0	0	36	35	0	68	57
'Clostridiales	'Lachnospiraceae	'Clostridium	'Other	0	18	0	0	0	78	0	38	0	101
'Clostridiales	'Lachnospiraceae	'_	'_	0	16	0	0	12	18	0	164	0	23
'Clostridiales	'Other	'Other	'Other	0	18	42	62	8	50	11	27	13	0
'Clostridiales	'Other	'Other	'Other	9	40	0	0	0	0	33	71	23	51
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	20	62	14	0	17	50	25	38
'Desulfovibrionales	'Desulfovibrionaceae	'_	'_	0	0	0	54	0	62	0	44	23	42
'Clostridiales	'Dehalobacteriaceae	'Dehalobacterium	'_	11	0	31	0	97	0	56	0	24	0
'Bacteroidales	'Porphyromonadaceae	'Parabacteroides	'_	0	29	9	19	0	17	0	24	3	115
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	15	21	38	21	0	26	28	44	22
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	10	6	39	12	9	12	34	21	23	46
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	8	0	0	0	8	119	0	77
'Clostridiales	'Other	'Other	'Other	0	0	0	70	0	102	0	0	0	38
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	0	25	16	0	14	0	19	46	34	49
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	67	43	0	0	0	87	0
'Clostridiales	'Christensenellaceae	'_	'_	49	8	0	15	3	10	45	19	37	9
'Bacteroidales	'S24-7	'_	'_	0	8	11	19	24	0	31	49	44	8
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	54	43	0	0	0	95	0
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	0	19	0	54	0	0	0	78	11	29
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	0	0	82	102	0	0	0	0
'Lactobacillales	'Enterococcaceae	'Vagococcus	'_	11	0	0	14	0	0	0	138	0	20
'Erysipelotrichales	'Erysipelotrichaceae	'Clostridium	'cocleatum	0	28	0	61	0	42	0	0	16	34
'Clostridiales	'_	'_	'_	9	0	25	0	29	0	23	0	92	0
'Desulfovibrionales	'Desulfovibrionaceae	'Bilophila	'_	0	13	8	46	16	0	25	36	11	17
'Clostridiales	'_	'_	'_	0	0	22	0	13	0	26	0	107	0
'Actinomycetales	'Corynebacteriaceae	'Corynebacterium	'stationis	72	18	0	23	14	0	23	17	0	0
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	41	43	0	0	0	45	0	0	34
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	27	0	26	0	0	0	21	0	82
'Clostridiales	'Lachnospiraceae	'_	'_	22	7	9	0	17	6	10	59	14	10

'Clostridiales	'Lachnospiraceae	'_	'_	0	26	6	0	32	0	20	38	31	0
'Clostridiales	'_	'_	'_	0	0	22	0	0	0	22	0	108	0
'Clostridiales	'_	'_	'_	0	0	0	67	0	0	0	0	0	84
'Clostridiales	'_	'_	'_	0	0	30	0	22	0	67	31	0	0
'Clostridiales	'Ruminococcaceae	'_	'_	5	0	52	0	41	0	23	0	27	0
'Clostridiales	'_	'_	'_	0	0	24	0	0	0	25	0	96	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	54	0	0	0	0	0	90	0
'Clostridiales	'Dehalobacteriaceae	'Dehalobacterium	'_	3	19	8	23	0	26	7	7	3	43
'Clostridiales	'Other	'Other	'Other	0	0	71	0	0	0	0	0	0	68
'Lactobacillales	'Streptococcaceae	'Streptococcus	'luteciae	25	0	19	15	27	35	0	5	12	0
'Clostridiales	'_	'_	'_	0	0	55	82	0	0	0	0	0	0
'Bacteroidales	'S24-7	'_	'_	9	38	0	0	17	0	0	34	0	36
'Clostridiales	'Ruminococcaceae	'Anaerotruncus	'_	0	13	7	23	0	25	19	19	6	11
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	0	63	0	33	0	16	0	10	0
'Clostridiales	'Lachnospiraceae	'Clostridium	'Other	0	0	0	0	0	96	0	0	26	0
'Clostridiales	'_	'_	'_	0	0	31	0	54	0	14	0	10	10
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	6	13	18	19	0	18	11	11	22
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	0	19	13	25	0	0	11	0	20	30
'Clostridiales	'_	'_	'_	20	12	39	0	0	0	32	0	12	0
'Bacteroidales	'S24-7	'_	'_	0	0	0	113	0	0	0	0	0	0
'Lactobacillales	'Aerococcaceae	'Facklamia	'_	21	0	25	2	27	0	20	0	16	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	0	0	0	0	48	0	0	60
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	0	0	24	0	54	30
'Bacteroidales	'S24-7	'_	'_	0	0	0	6	14	6	0	34	47	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	0	107
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	27	5	0	0	29	35	9
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'acidifaciens	0	105	0	0	0	0	0	0	0	0
'Bacteroidales	'Bacteroidaceae	'Bacteroides	'acidifaciens	0	3	6	32	9	17	7	17	0	11
'Clostridiales	'Lachnospiraceae	'Dorea	'_	11	3	21	0	14	0	19	0	25	8
'Clostridiales	'Ruminococcaceae	'Other	'Other	4	0	14	8	33	0	7	13	10	11
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	80	0	0	0	0	0	7	13
'Clostridiales	'Lachnospiraceae	'_	'_	11	0	0	0	30	12	14	12	20	0

'Bacteroidales	'S24-7	'_	'_	20	0	0	0	0	3	46	26	1	1
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	19	0	0	0	64	0	14	0
'Clostridiales	'_	'_	'_	4	0	42	0	50	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	9	13	15	10	0	0	39	0	9
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	21	0	32	0	42	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	13	0	20	9	6	13	0	14	19
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	38	0	0	0	0	55	0	0	0	0
'Bacteroidales	'S24-7	'_	'_	0	0	0	0	0	28	0	0	65	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	11	17	18	5	8	11	13	9
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	15	0	76	0	0	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	21	0	8	9	15	0	22	14
'Clostridiales	'Other	'Other	'Other	0	0	0	0	0	0	40	0	49	0
'CW040	'F16	'_	'_	0	0	66	18	0	0	0	0	0	0
'Clostridiales	'Christensenellaceae	'_	'_	6	0	17	5	13	5	9	4	19	5
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	0	0	0	81	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	9	0	34	0	13	12	12	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	80	0
'Clostridiales	'Ruminococcaceae	'Other	'Other	8	4	12	0	15	0	25	0	14	0
'Clostridiales	'_	'_	'_	0	0	19	0	58	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'Other	'Other	15	0	0	18	0	0	0	43	0	0
'Clostridiales	'Other	'Other	'Other	0	0	0	0	76	0	0	0	0	0
'Lactobacillales	'Enterococcaceae	'Vagococcus	'_	29	0	0	0	0	0	20	0	0	26
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	14	0	9	0	8	0	6	11	23	0
'Erysipelotrichales	'Erysipelotrichaceae	'Coprobacillus	'_	11	0	23	0	0	0	26	0	11	0
'Clostridiales	'Other	'Other	'Other	0	0	22	0	49	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	9	0	21	0	14	7	11	9
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	38	0	32	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	14	0	43	0	13	0	0	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	15	6	14	8	8	8	11	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	0	0	0	38	0	31
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	0	0	0	0	52	0	15	0	0	0
'Clostridiales	'Ruminococcaceae	'Other	'Other	0	10	0	9	4	0	7	23	8	5

'Clostridiales	'_	'_	'_	0	0	0	0	0	0	26	40	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	9	14	14	14	6	0	6	2
'Bacteroidales	'Rikenellaceae	'_	'_	0	8	7	4	0	13	7	13	0	11
'Clostridiales	'_	'_	'_	0	0	0	0	63	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	21	0	0	40
'Clostridiales	'_	'_	'_	15	0	11	0	26	0	0	0	8	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	0	0	58	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	10	0	32	0	0	0	15	0
'Clostridiales	'Lachnospiraceae	'Clostridium	'Other	0	0	0	0	0	29	0	0	0	28
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	7	0	18	9	10	0	0	0	9	0
'Lactobacillales	'Streptococcaceae	'Streptococcus	'minor	0	0	9	0	19	0	16	0	9	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	53	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	8	18	0	0	0	27	0
'Clostridiales	'Lachnospiraceae	'Other	'Other	13	0	7	0	13	0	11	0	7	0
'Clostridiales	'Other	'Other	'Other	0	0	0	0	15	0	0	0	36	0
'RF39	'_	'_	'_	0	0	0	0	50	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	49	0	0	0	0	0
'Clostridiales	'_	'_	'_	14	0	0	0	0	0	0	33	0	0
'Clostridiales	'_	'_	'_	0	0	13	0	7	0	0	18	8	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	11	0	0	0	7	7	0	7	12
'Lactobacillales	'Streptococcaceae	'Streptococcus	'_	0	0	0	0	0	44	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	43	0	0	0	0	0
'Bacteroidales	'S24-7	'_	'_	0	0	0	0	0	0	0	43	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	42	0
'Clostridiales	'Other	'Other	'Other	0	0	0	0	0	0	0	0	0	42
'Clostridiales	'[Mogibacteriaceae]	'_	'_	7	0	4	12	0	0	6	12	0	0
'Enterobacteriales	'Enterobacteriaceae	'Enterobacter	'Other	13	0	0	0	0	0	0	27	0	0
'Clostridiales	'Eubacteriaceae	'Anaerofustis	'_	0	2	15	0	13	0	0	4	5	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	0	0	15	0	5	0	0	19
'Lactobacillales	'Aerococcaceae	'Aerococcus	'_	0	0	0	0	0	0	0	0	0	39
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	21	0	17	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	10	0	0	0	16	0	12

'Clostridiales	'Other	'Other	'Other	0	0	16	0	9	0	7	0	5	0
'Clostridiales	'_	'_	'_	0	9	0	10	0	5	0	0	5	8
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	0	0	17	0	0	0	0	18	0	0
'Clostridiales	'Other	'Other	'Other	0	0	0	0	0	0	0	0	35	0
'Clostridiales	'_	'_	'_	0	0	33	0	0	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	12	0	0	0	9	0	11	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	8	14	0	0	0	10	0	0
'Bacteroidales	'S24-7	'_	'_	0	32	0	0	0	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	0	15	0	16	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	0	0	0	0	31	0
'Clostridiales	'_	'_	'_	0	0	30	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	14	0	0	0	16	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	30	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	8	6	0	0	0	16	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	12	0	8	0	0	0	10	0	0
'Clostridiales	'Lachnospiraceae	'_	'_	6	0	7	0	6	0	0	10	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	14	0	0	0	15	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	15	0	0	0	14	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	9	0	20	0
'Actinomycetales	'Corynebacteriaceae	'Corynebacterium	'stationis	26	0	0	0	0	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Other	'Other	0	0	4	0	3	0	14	0	5	0
'Bacteroidales	'S24-7	'_	'_	0	0	0	0	0	0	0	13	0	13
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	0	0	0	0	0	26
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	0	0	0	25	0	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	13	0	11	0	0	0	0	0	0	0
'Clostridiales	'[Mogibacteriaceae]	'_	'_	11	0	0	4	0	0	0	9	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'Coprobacillus	'_	0	0	0	0	14	0	10	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'Clostridium	'cocleatum	0	2	0	0	0	0	0	20	0	1
'Bacteroidales	'S24-7	'_	'_	0	0	0	0	0	0	0	23	0	0
'Coriobacteriales	'Coriobacteriaceae	'_	'_	0	0	7	0	10	5	0	0	0	0
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	4	0	0	0	8	9	0	0	0	0
'Lactobacillales	'Leuconostocaceae	'Weissella	'paramesenteroid	2	0	0	3	0	0	4	0	0	12

			es										
'Lactobacillales	'Enterococcaceae	'Vagococcus	'_	0	0	0	0	21	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Butyricicoccus	'pullicaeorum	0	0	0	0	7	0	0	8	6	0
'Clostridiales	'[Mogibacteriaceae]	'_	'_	0	0	0	12	0	0	0	3	0	6
'RF39	'_	'_	'_	0	0	0	0	12	0	0	0	8	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	20	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	20	0
'Bacteroidales	'S24-7	'_	'_	0	0	0	9	0	0	0	0	0	11
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	9	0	0	0	0	10	0	0
'Bacillales	'Planococcaceae	'Sporosarcina	'_	0	8	0	0	3	3	4	0	0	0
'Clostridiales	'Lachnospiraceae	'Blautia	'producta	0	0	7	6	0	0	4	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'Other	'Other	0	0	0	0	0	10	0	0	7	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	16	0	0	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	0	15	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	15	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	15	0	0	0
'Clostridiales	'_	'_	'_	0	15	0	0	0	0	0	0	0	0
'Coriobacteriales	'Coriobacteriaceae	'Adlercreutzia	'_	10	4	0	0	0	0	0	0	0	0
'Clostridiales	'Other	'Other	'Other	0	0	0	0	0	0	14	0	0	0
'Clostridiales	'Ruminococcaceae	'Other	'Other	0	5	0	9	0	0	0	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	0	14	0	0	0	0	0	0
'Deferribacteriales	'Deferribacteraceae	'Mucispirillum	'schaedleri	0	0	0	0	0	14	0	0	0	0
'Rhizobiales	'Methylobacteriaceae	'Methylobacterium	'Other	0	0	0	0	2	11	0	0	0	0
'Methanobacteriales	'Methanobacteriaceae	'Methanobrevibacter	'_	0	0	0	0	0	13	0	0	0	0
'RF39	'_	'_	'_	0	2	6	0	4	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	0	0	0	0	0	0	12	0
'Clostridiales	'Lachnospiraceae	'Dorea	'_	11	0	0	0	0	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'Dorea	'_	0	0	4	0	0	0	0	0	7	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	0	0	0	0	0	0	11	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	11	0	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	11	0	0	0	0	0	0	0	0

'Clostridiales	'Other	'Other	'Other	0	0	0	0	0	0	0	11	0	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	0	0	0	0	0	0	0	0	11
'Clostridiales	'Lachnospiraceae	'Other	'Other	0	0	10	0	0	0	0	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'Clostridium	'cocleatum	0	0	0	0	10	0	0	0	0	0
'Clostridiales	'Clostridiaceae	'_	'_	0	0	0	0	0	0	0	0	10	0
'Bacteroidales	'S24-7	'_	'_	0	0	0	6	0	0	0	4	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	0	0	0	0	0	0	0	10
'Clostridiales	'_	'_	'_	9	0	0	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	9	0	0	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	0	0	0	0	0	0	0	9
'Lactobacillales	'Streptococcaceae	'_	'_	0	0	0	0	8	0	0	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	0	0	0	0	8	0	0	0
'Turicibacterales	'Turicibacteraceae	'Turicibacter	'_	7	0	0	0	0	0	0	0	0	0
'Bacteroidales	'S24-7	'_	'_	0	0	7	0	0	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	7	0	0	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	7	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	3	0	0	0	0	0	0	0	4
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	0	0	0	0	0	7	0	0
'Clostridiales	'Ruminococcaceae	'Ruminococcus	'_	0	0	0	0	0	0	0	0	0	7
'Pseudomonadales	'Moraxellaceae	'Psychrobacter	'Other	3	0	0	0	0	0	3	0	0	0
'Bacillales	'Paenibacillaceae	'Other	'Other	0	0	6	0	0	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'Coprococcus	'_	0	0	6	0	0	0	0	0	0	0
'Bacillales	'Bacillaceae	'Bacillus	'_	0	0	0	0	6	0	0	0	0	0
'Lactobacillales	'Enterococcaceae	'Vagococcus	'_	0	0	0	0	0	0	6	0	0	0
'RF39	'_	'_	'_	0	0	0	0	0	6	0	0	0	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	0	0	0	0	0	6	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	0	6
'RF39	'_	'_	'_	5	0	0	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	5	0
'Clostridiales	'Ruminococcaceae	'Oscillospira	'_	0	0	4	0	0	0	0	0	0	0
'RF39	'_	'_	'_	0	0	0	0	4	0	0	0	0	0
'Erysipelotrichales	'Erysipelotrichaceae	'_	'_	0	0	0	0	0	0	0	0	4	0

'Clostridiales	'Other	'Other	'Other	0	0	0	0	0	0	0	0	0	0	4
'Clostridiales	'Clostridiaceae	'Clostridium	'Other	3	0	0	0	0	0	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	3	0	0	0	0	0	0
'Clostridiales	'Ruminococcaceae	'Butyricicoccus	'pullicaecorum	0	0	0	0	0	0	3	0	0	0	0
'Clostridiales	'Ruminococcaceae	'_	'_	0	0	0	0	0	0	0	0	3	0	0
'Deferribacterales	'Deferribacteraceae	'Mucispirillum	'schaedleri	0	0	0	3	0	0	0	0	0	0	0
'Turicibacterales	'Turicibacteraceae	'Turicibacter	'_	0	0	0	0	0	0	0	3	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	0	0	3
'Verrucomicrobiales	'Verrucomicrobiaceae	'Akkermansia	'muciniphila	2	0	0	0	0	0	0	0	0	0	0
'Clostridiales	'[Mogibacteriaceae]	'_	'_	0	0	2	0	0	0	0	0	0	0	0
'Burkholderiales	'Alcaligenaceae	'Sutterella	'_	0	0	0	0	0	0	2	0	0	0	0
'Clostridiales	'Lachnospiraceae	'Dorea	'longicatena	0	0	0	0	0	0	0	0	2	0	0
'Clostridiales	'Ruminococcaceae	'_	'_	0	0	0	2	0	0	0	0	0	0	0
'Clostridiales	'Lachnospiraceae	'_	'_	0	0	0	0	0	2	0	0	0	0	0
'Clostridiales	'_	'_	'_	0	0	0	0	0	0	0	0	0	0	2

Supplementary Table 2: Peak height of all the detected metabolite compounds after normalization

S.No	Name of the Compound	Gr.1 - Control			Gr.2 -AFO-202			Gr. 3- N-163			Gr.4 - AFO-202+N-163			Telmisartan		
		Pre	Post	Difference	Pre	Post	Difference	Pre	Post	Difference	Pre	Post	Difference	Pre	Post	Difference
1	2-Aminobutyric acid-2TMS	16544.74	40209.97	23665.23	23704.19	27627.27	3923.08	11065.45	24994.24	13928.79	24652.04	39540.28	14888.24	25746.06	43700.57	17954.52
2	2-Hydroxyisobutyric acid-2TMS	36888.72	145407.17	108518.45	38444.81	146808.33	108363.52	70728.84	162704.66	91975.82	38044.04	179597.18	141553.15	36852.36	170732.73	133880.36
3	3-Aminoglutaric acid-3TMS	2064.63	11599.10	9534.47	2674.96	8297.81	5622.84	2061.59	4755.57	2693.99	4899.49	5638.95	739.46	3808.51	12436.04	8627.53
4	3-Hydroxybutyric acid-2TMS	78693.42	32663.28	-46030.14	49425.90	15869.18	-33556.73	59399.24	16902.03	-42497.20	23465.34	16080.23	-7385.11	15499.52	10891.34	-4608.17
5	3-Methyl-2-oxovaleric acid-meto-TMS	2494.33	15765.26	13270.93	5771.05	12154.53	6383.48	3664.87	10069.54	6404.67	6043.01	13013.54	6970.53	7152.49	12393.37	5240.87
6	4-Hydroxyphenylacetic acid-2TMS	71212.24	90389.17	19176.93	38406.22	61406.95	23000.73	81498.41	108347.44	26849.04	29763.24	65944.94	36181.70	36067.25	39882.54	3815.29
7	5-Aminovaleric acid-3TMS	359981.32	177455.86	-182525.46	28606.18	220398.95	191792.77	184342.02	312636.97	128294.95	435424.34	319991.71	-115432.64	28517.91	292458.93	263941.02

8	5-Oxoproline-2TMS	86202.33	183221.07	97018.75	101052.25	142117.70	41065.45	76536.42	135748.92	59212.51	74316.31	137827.60	63511.29	113169.35	198991.94	85822.59
9	Acetylglycine-TMS	62276.84	78877.14	16600.30	62217.09	75225.03	13007.93	54550.93	64278.24	9727.30	47481.52	68504.55	21023.03	70946.14	99435.23	28489.09
10	Alanine-2TMS	462486.71	932281.83	469795.13	575514.07	709299.17	133785.10	381431.60	576714.21	195282.60	451475.22	778523.96	327048.74	544032.57	1268525.27	724492.70
11	Asparagine-3TMS	50264.14	47387.02	-2877.12	52065.54	39742.05	-12323.49	45670.67	23805.15	-21865.52	40462.65	35329.03	-5133.62	57492.79	68357.27	10864.48
12	Aspartic acid-3TMS	122316.67	309390.39	187073.73	168305.85	250489.61	82183.75	103731.51	227874.35	124142.84	133017.58	208828.93	75811.35	183416.60	433233.75	249817.15
13	Fructose-meto-5TMS	##### #	999935.86	-726073.07	323320.36	936708.26	613387.90	2412757.75	1126616.20	-1286141.55	1689190.48	2733495.73	1044305.25	325202.45	1110939.22	785736.77
14	Fucose-meto-4TMS	36824.30	44185.98	7361.68	57488.33	33927.51	-23560.83	58516.62	21689.03	-36827.59	58635.69	53958.65	-4677.04	89055.59	24027.13	-65028.47
15	Galactose-meto-5TMS	92513.44	457335.67	364822.23	177745.54	661315.76	483570.22	191900.52	559295.50	367394.98	139909.99	1341594.81	1201684.82	359608.12	188781.00	170827.12
16	Glucose-meto-5TMS	299911.54	1740399.37	1440487.83	842456.89	996893.55	154436.66	448031.24	1023564.45	575533.20	273170.40	1501256.09	1228085.70	400546.16	855701.34	455155.19
17	Glutamic acid-3TMS	197256.75	658386.79	461130.05	264245.78	515323.80	251078.03	170970.32	416395.95	245425.63	269851.71	394663.22	124811.50	361041.65	743751.06	382709.41
18	Glutamine-3TMS	60900.94	73851.25	12950.31	45289.87	46071.10	781.23	40503.29	47109.70	6606.41	27222.10	52375.70	25153.60	46899.14	77644.26	30745.13
19	Glycerol-3TMS	100045.16	512115.32	412070.17	193048.44	332266.25	139217.82	351596.87	290395.66	-61201.21	124107.19	374822.76	250715.57	283873.86	324467.91	40594.06
20	Glycine-3TMS	175941.04	190667.24	14726.20	182268.66	182802.22	533.56	118303.95	134185.05	15881.10	148645.59	111069.96	-37575.63	179124.85	288456.14	109331.29
21	Hypoxanthine-2TMS	18209.77	73610.39	55400.63	25970.42	54650.62	28680.21	23749.72	48430.05	24680.32	22627.37	60014.19	37386.83	33144.25	56824.97	23680.72
22	Inosine-4TMS	20341.44	29963.22	9621.79	27134.09	52940.46	25806.38	27591.81	56079.56	28487.75	33777.00	42475.35	8698.35	24548.88	37226.82	12677.95
23	Isoleucine-2TMS	240751.69	255679.87	14928.19	213617.13	185078.81	-28538.33	142467.71	156224.53	13756.81	140230.24	158650.59	18420.35	175687.57	381173.16	205485.59
24	Lactic acid-2TMS	126966.77	174366.10	47399.33	161320.99	112769.78	-48551.21	181299.93	76773.16	-104526.77	52406.61	197790.91	145384.31	71969.55	36363.66	35605.88
25	Leucine-2TMS	405177.22	484969.86	79792.64	381285.89	366743.37	-14542.52	297859.97	296018.19	-1841.78	273676.66	287240.08	13563.42	364222.50	631954.96	267732.46
26	Lysine-4TMS	453167.29	1042910.27	589742.97	578069.23	771280.17	193210.94	495585.73	790010.41	294424.68	505753.28	831999.15	326245.87	592034.86	952876.14	360841.28
27	Malic acid-3TMS	15431.92	50833.82	35401.90	18557.13	136072.04	117514.91	23517.14	116959.69	93442.55	25340.81	67836.64	42495.84	54899.38	38544.73	16354.66
28	Mannose-meto-5TMS	46604.74	101647.05	55042.30	58090.57	125118.62	67028.06	70844.17	147959.66	77115.49	45441.01	167518.11	122077.10	79951.11	65364.10	14587.00
29	Methionine-2TMS	72809.85	128516.84	55706.99	84612.94	90620.86	6007.93	66116.46	88928.83	22812.37	68604.44	92418.75	23814.31	103825.98	168797.44	64971.46
30	N-Acetylmannosamine-meto-4TMS	51349.02	194543.70	143194.68	95958.86	210636.96	114678.10	102946.69	130222.12	27275.43	102728.94	270379.17	167650.23	207515.87	90678.54	116837.33
31	Nicotinic acid-TMS	8270.56	31967.10	23696.54	12163.20	23936.48	11773.28	11141.64	22880.62	11738.98	12707.43	23489.75	10782.32	18359.32	23826.50	5467.18
32	Norvaline-TMS	94923.32	100191.34	5268.03	82912.31	73583.61	-9328.70	58328.64	66992.36	8663.72	54802.10	77669.25	22867.15	72621.50	110365.67	37744.18
33	Ornithine-4TMS	45698.47	101711.56	56013.10	40654.29	52324.86	11670.57	52234.33	56216.15	3981.82	54989.59	101736.85	46747.26	44496.80	62226.84	17730.04
34	Phenylalanine-2TMS	173673.02	290028.18	116355.17	186236.03	228284.46	42048.43	161361.25	202463.07	41101.82	145354.48	179722.22	34367.74	208441.78	342996.16	134554.38

35	Phosphoric acid-3TMS	13703.35	692470.05	678766.69	55467.68	765279.47	709811.79	39524.43	1030958.21	991433.78	51518.47	879380.28	827861.80	107073.44	122301.92	15228.48
36	Proline-2TMS	57195.44	92021.21	34825.77	77037.72	103324.97	26287.25	60257.37	83664.37	23407.00	66855.91	53963.25	-12892.66	98386.02	151136.53	52750.51
37	Putrescine-4TMS	90940.03	4806.17	-86133.86	30410.15	5030.93	-25379.22	70539.24	6011.09	-64528.14	62824.68	9891.53	-52933.15	21749.83	6122.91	15626.91
38	Pyruvic acid-meto-TMS	31557.87	108630.52	77072.65	40255.26	105996.98	65741.72	52793.70	107097.52	54303.82	40456.18	121792.59	81336.41	41703.69	116493.60	74789.91
39	Ribonic acid-5TMS	90115.51	64726.74	-25388.76	85151.16	66560.71	-18590.46	90412.13	99956.38	9544.25	93736.17	93030.85	-705.32	95701.95	64707.65	-30994.30
40	Ribose-meto-4TMS	199285.35	806414.91	607129.56	321848.24	706173.47	384325.23	284999.93	561917.45	276917.52	289686.98	526890.91	237203.94	510635.39	699650.70	189015.32
41	Serine-3TMS	134100.10	150072.29	15972.19	134521.62	135009.56	487.94	94829.48	89019.26	-5810.21	87612.04	97022.85	9410.81	124526.34	206603.74	82077.40
42	Spermidine-5TMS	11571.79	14335.92	2764.13	8257.93	7462.86	-795.07	10699.82	7443.06	-3256.75	10274.90	8775.14	-1499.76	9612.74	8122.10	-1490.65
43	Succinic acid-2TMS	200720.47	75253.68	-125466.79	32921.32	1398291.07	1365369.75	383811.07	1183826.74	800015.68	44403.33	504988.19	460584.87	263097.91	313904.61	50806.69
44	Taurine-3TMS	15049.13	66033.11	50983.98	14685.18	46705.91	32020.73	11165.27	32313.06	21147.79	14449.38	55683.04	41233.65	14857.44	24726.77	9869.33
45	Threonine-3TMS	137361.71	175385.78	38024.08	137475.15	135608.93	-1866.22	91893.96	113191.42	21297.46	87758.08	115202.12	27444.04	122185.79	240869.77	118683.98
46	Thymine-2TMS	5319.57	16561.64	11242.07	6636.79	13272.69	6635.90	6900.32	9466.94	2566.62	9972.14	17972.30	8000.16	12893.64	7133.20	-5760.44
47	Tryptophan-3TMS	21044.89	20895.79	-149.10	17365.35	18254.73	889.38	13733.63	17318.66	3585.03	14840.33	14286.41	-553.92	16169.30	28678.00	12508.70
48	Tyrosine-3TMS	273469.68	438287.99	164818.32	293828.48	351487.07	57658.59	234275.64	316786.47	82510.82	232207.59	363478.28	131270.69	309190.46	425825.94	116635.49
49	Uracil-2TMS	25078.62	92837.69	67759.07	44546.07	84845.85	40299.79	35546.66	66320.55	30773.89	50653.91	65823.53	15169.62	74843.38	71567.16	-3276.22
50	Valine-2TMS	353165.15	405846.51	52681.36	290698.34	255449.25	-35249.08	219247.47	233471.87	14224.40	202562.77	238231.09	35668.32	254032.97	521841.20	267808.23
51	Xanthine-3TMS	53777.98	130586.54	76808.56	79540.73	113793.80	34253.08	83412.44	89448.75	6036.32	71847.21	109146.53	37299.32	101684.60	103194.40	1509.80
52	Xylose-meto-4TMS	174559.36	290187.08	115627.72	186404.46	228374.90	41970.44	162359.78	202528.45	40168.67	145455.14	179768.76	34313.61	208574.29	343176.94	134602.65

Supplementary Table 3: Coefficients of Metabolite compounds with a VIP value of 1 or higher in OPLS-DA in the different groups

No.	Metabolites	Coefficients				
		Control	AFO-202	N-163	AFO-202+N-163	Telmisartan
1	Glucose-meto-5TMS	-0.000180	-0.000091	-0.000151	-0.000168	-0.000139
2	Fructose-meto-5TMS	0.000133	-0.000173	0.000215	-0.000177	-0.000209
3	Phosphoric acid-3TMS	-0.000125				
4	Ribose-meto-4TMS	-0.000116	-0.000132	-0.000103	-0.000065	-0.000083

5	Lysine-4TMS	-0.000116	-0.000083	-0.000098	-0.000069	-0.000120
6	Alanine-2TMS	-0.000109	-0.000003	-0.000061	-0.000094	-0.000171
7	Glutamic acid-3TMS	-0.000100	-0.000101	-0.000102	-0.000063	-0.000149
8	Glycerol-3TMS	-0.000102	-0.000080		-0.000084	
9	Galactose-meto-5TMS	-0.000092	-0.000144	-0.000124	-0.000190	0.000094
10	Aspartic acid-3TMS	-0.000063	-0.000061	-0.000064		-0.000113
11	5-Aminovaleric acid-3TMS	0.000069	-0.000103	-0.000077	0.000073	-0.000123
12	Tyrosine-3TMS	-0.000064		-0.000039	-0.000057	-0.000043
13	N-Acetylmannosamine-meto-4TMS	-0.000055	-0.000068		-0.000058	
14	Succinic acid-2TMS	0.000059	-0.000259	-0.000172	-0.000109	
15	Phenylalanine-2TMS	-0.000049				-0.000087
16	Xylose-meto-4TMS	-0.000048				-0.000087
17	2-Hydroxyisobutyric acid-2TMS	-0.000054	-0.000072	-0.000064	-0.000061	-0.000072
18	5-Oxoproline-2TMS	-0.000043				
19	Phosphoric acid-3TMS		-0.000197	-0.000198	-0.000144	
20	Malic acid-3TMS		-0.000077	-0.000058		
21	Mannose-meto-5TMS		-0.000057	-0.000055	-0.000063	
22	Pyruvic acid-meto-TMS		-0.000065			-0.000046

23	Lactic acid-2TMS			0.000062	-0.000062	
24	Valine-2TMS					-0.000075
25	Leucine-2TMS					-0.000087
26	Isoleucine-2TMS					-0.000083
27	Threonine-3TMS					-0.000080
28	Glycine-3TMS					-0.000058
29	5-Oxoproline-2TMS					-0.000064
30	Serine-3TMS					-0.000065