

1 **Supplemental Figure 1:** Principal components analysis for  $\beta$ -diversity of microbiome samples  
2 across time points for young/adolescent (Y/ADO) and adult/aged (AD/AG) groups. Each point  
3 denotes the value for an individual sample.

4 **Supplemental Figure 2:** Distribution of OTU reads in each age group across all time points. Each  
5 point denotes the percentage coverage of the top 50 OTUs (**LEFT**) or 100 OTUs (**RIGHT**) in the  
6 samples. The horizontal line denotes the mean percent coverage for the group samples.

7 **Supplemental Figure 3:** Flow chart of study design for ligature-induced periodontitis and microbiome  
8 sampling.

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10 **Supplemental Table 1:** Sequence and  $\alpha$ -diversity data for microbiome samples

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<b>Sequence Measure</b>	<b>Young/Adolescent Median(min, max)</b>	<b>Adult/Aged Median (min, max)</b>
Raw reads	136023 (23026, 179875)	142580 (43991, 234369)
Unique sequences	760 (0, 1450)	1100 (0, 2450)
Phylotypes	148 (85, 182)	229 (166, 285)
Shannon index	3.01 (2.25, 3.65)	3.80 (3.05, 4.10)
Inverse Shannon index	11.0 (4.5, 22.0)	23.5 (4.0, 35.0)
Chao 1	180.0 (20.0, 225.0)	240.0 (175.0, 315.0)
ACE	180.0 (85.0, 235.0)	240.0 (180.0, 305.0)

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15 **Supplemental Table 2.** OTU distribution in samples from Young group.

OTU ID	Baseline		0.5		1		3		5	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Abiotrophia defectiva_oral_taxon_389	2658	628	64	58	852	142	132	186	2026	2403
Actinobaculum sp._oral_taxon_183	12	4	64	108	55	47	237	193	653	880
Actinomyces	271	360	67	29	139	105	111	53	1312	304
Actinomyces sp._oral_taxon_171										
Actinomyces sp._oral_taxon_179	0	0	28	48	0	0	529	884	0	0
Actinomyces sp._oral_taxon_180										
Actinomyces sp._oral_taxon_449										
Aggregatibacter_unclassified	179	183	202	164	218	83	94	49	2785	3131
Aggregatibacter										
actinomycetemcomitans_oral_taxon_531	11332	15617	1989	2824	279	175	1425	659	1626	566
Aggregatibacter sp._oral_taxon_458										
Aggregatibacter sp._oral_taxon_513	473	668	1	1	16	14	7	6	0	0
Alloprevotella_unclassified										
Alloprevotella rava_oral_taxon_302										
Alloprevotella sp._oral_taxon_308										
Alloprevotella sp._oral_taxon_473	1652	2121	273	133	865	1220	111	102	58	80
Alloprevotella sp._oral_taxon_912	1	1	23	19	200	266	256	308	291	406
Alloprevotella tanneriae_oral_taxon_466	0	0	755	1305	90	127	22	38	1	1
Atopobium_unclassified										
Atopobium parvulum_oral_taxon_723	0	0	784	1094	400	564	67	88	0	0
Atopobium sp._oral_taxon_199	1	1	853	1477	374	529	122	208	0	0
Atopobium sp._oral_taxon_810										
Bacteria_unclassified	98	42	84	85	147	61	1754	541	890	1254
Bacteroidaceae [G-1] sp._oral_taxon_272										
Bacteroidales [G-2]sp._oral_taxon_274	5	5	133	114	1187	90	836	663	5	7
Bacteroidales_unclassified										
Bacteroides_unclassified										
Bacteroides heparinolyticus_oral_taxon_630	0	0	6	10	144	204	780	223	0	0
Bacteroides tectus_oral_taxon_787										
Bacteroides zoogloformans_oral_taxon_465										
Bacteroidetes [G-3]										
Bacteroidetes [G-3]sp._oral_taxon_280	1	1	95	165	61	83	1070	1852	1	1
Bacteroidetes [G-3]sp._oral_taxon_365										
Bacteroidetes [G-3]sp._oral_taxon_436										
Bacteroidetes [G-3]sp._oral_taxon_503										
Bacteroidetes [G-4]sp._oral_taxon_509										
Bacteroidetes [G-5]sp._oral_taxon_505	15	21	302	494	229	323	861	735	0	0
Bacteroidetes [G-5]sp._oral_taxon_507										
Bacteroidetes [G-5]sp._oral_taxon_511	1	1	125	214	72	102	453	705	0	0
Bacteroidetes_unclassified										
Bergeyella_unclassified	209	72	4	4	1	1	16	25	593	219
Bergeyellasp._oral_taxon_907	17	22	5	5	179	106	137	118	235	290
Burkholderiaceae_unclassified										
Burkholderiales_unclassified										
Butyrivibriosp._oral_taxon_094	0	0	27	47	0	0	391	675	2	1
Campylobacter_unclassified	11	16	121	181	52	14	128	82	50	71
Campylobacter concisus_oral_taxon_575										
Campylobacter rectus_oral_taxon_748	22	30	233	39	580	313	628	486	2	1
Campylobacter sp._oral_taxon_044	0	0	1	1	100	141	168	290	1	1
Capnocytophaga_unclassified	216	209	311	370	847	803	969	738	3592	4209
Capnocytophaga granulosa_oral_taxon_325	91	127	4	2	249	177	163	121	87	77
Capnocytophagasp._oral_taxon_326	0	0	0	1	1	0	11	18	235	332
Cardiobacterium_unclassified										
Cardiobacterium hominis_oral_taxon_633										
Cardiobacterium valvulum_oral_taxon_540										
Catonella morbi_oral_taxon_165	205	283	391	210	496	496	864	626	70	8
Catonella sp._oral_taxon_451										
Chloroflexi [G-1]sp._oral_taxon_439	1	1	2	2	3	2	1857	1763	2	3
Clostridiales [F-1][G-1]sp._oral_taxon_093										

Clostridiales [F-1][G-2]sp.oral_taxon_402										
Clostridiales [F-2][G-1]sp.oral_taxon_075										
Clostridiales [F-2][G-2]sp.oral_taxon_085										
Clostridiales [F-2][G-3]sp.oral_taxon_381										
Clostridiales [F-2]_unclassified										
Clostridiales_unclassified	300	350	59	92	113	54	304	119	742	1047
Comomonadaceae_unclassified										
Coriobacteriaceae_unclassified	4	4	1	1	34	47	96	166	132	89
Corynebacterium durum_oral_taxon_595	0	0	33	52	272	194	766	345	1	1
Corynebacterium matruchotii_oral_taxon_666										
Desulfobulbus sp.oral_taxon_041										
Desulfomicrobium orale_oral_taxon_703										
Desulfovibrio fairfieldensis_oral_taxon_605										
Desulfovibrio sp.oral_taxon_040										
Dialister invisus_oral_taxon_118	1	1	574	615	80	45	380	135	1	1
Eikenella_unclassified										
Eikenella corrodens_oral_taxon_577	220	82	32	30	14	18	51	31	249	346
Erysipelotrichaceae_unclassified										
Escherichiacoli_oral_taxon_574	993	281	38	29	36	6	77	10	284	332
Eubacterium [XI][G-1]infirum_oral_taxon_105	2	1	2116	1503	671	43	725	252	1	1
Eubacterium [XI][G-3]brachy_oral_taxon_557	8	1	428	364	552	585	155	127	20	28
Eubacterium [XI][G-6]										
Eubacterium [XI][G-6]minutum_oral_taxon_673										
Filifactor alocis_oral_taxon_539	1	1	5	6	207	291	215	248	1	1
Firmicutes_unclassified	7	8	24	33	1	1	405	536	73	103
Fretibacterium_unclassified	19	27	349	476	837	1010	10347	699	0	0
Fretibacterium fastidiosum_oral_taxon_363	8	11	297	497	206	287	2175	1111	12	14
Fretibacterium sp.oral_taxon_361	21	14	72	107	3184	4501	627	560	9	8
Fusobacterium_unclassified	4956	4504	7078	771	10217	13518	9817	3441	3206	2285
Fusobacterium nucleatum ss_vincentii_oral_taxon_200	16	19	517	887	2	2	369	605	96	97
Fusobacterium periodonticum_oral_taxon_201										
Fusobacterium sp.oral_taxon_203	1	0	2	2	3985	5620	7	6	11513	10135
Gemella morbillorum_oral_taxon_046	5585	1341	165	78	1927	1867	486	478	5822	1564
Haemophilus_unclassified	106	51	14	23	5	2	52	10	168	170
Haemophilussp.oral_taxon_035	10624	4038	129	91	76	100	46	56	1835	1304
Helicobacterpylori_oral_taxon_812										
Johnsonellaignava_oral_taxon_635	10	14	21	11	318	211	119	47	36	51
Johnsonellasp.oral_taxon_166	12	16	8	11	20	28	214	314	0	0
Kingella sp.oral_taxon_459										
Lachnoanaerobaculum_unclassified	0	0	0	0	195	269	41	72	18	25
Lachnoanaerobaculumsp.oral_taxon_083	1	1	110	188	38	53	156	64	2	3
Lachnoanaerobaculumsp.oral_taxon_496										
Lachnoanaerobaculum umeaense_oral_taxon_107	0	0	144	4	33	37	19	11	3	4
Lachnospiraceae [G-2]_unclassified	567	718	6	4	150	207	9	10	343	322
Lachnospiraceae [G-2]sp.oral_taxon_088	63	14	63	87	435	112	232	97	752	542
Lachnospiraceae [G-2]sp.oral_taxon_096										
Lachnospiraceae [G-3]sp.oral_taxon_100	14	3	23	32	405	443	688	463	55	16
Lachnospiraceae [G-5]sp.oral_taxon_080										
Lachnospiraceae [G-6]sp.oral_taxon_090										
Lachnospiraceae [G-8]sp.oral_taxon_500	10	14	178	293	28	38	421	618	1	1
Lachnospiraceae [XIVa]_unclassified	18	12	69	117	45	28	209	258	476	672
Lactobacillales_unclassified	520	214	15	18	1	1	12	10	721	179
Lactobacillus										
Lactobacillus [XVII] catenaformis_oral_taxon_569										
Lactobacillus gasseri_oral_taxon_615										
Lactobacillus salivarius_oral_taxon_756	59	29	21	15	0	0	2	3	290	410
Lactobacillus sp.oral_taxon_052										

Lactobacillus vaginalis_oral_taxon_051										
Leptotrichia_unclassified	2487	512	568	233	10565	9915	5046	3965	6641	2360
Leptotrichia goodfellowii_oral_taxon_845	21	30	369	568	4	3	2	2	499	517
Leptotrichia hongkongensis_oral_taxon_213	2	1	0	1	0	0	526	912	0	0
Leptotrichia sp._oral_taxon_212	17	23	68	113	29	15	70	52	8956	7326
Leptotrichia sp._oral_taxon_223	1	1	488	669	43	60	616	1066	14	19
Leptotrichia sp._oral_taxon_225	3	2	21	17	2	3	47	77	163	206
Leptotrichia sp._oral_taxon_392										
Leptotrichia sp._oral_taxon_498										
Leptotrichia sp._oral_taxon_847										
Leptotrichiaceae_unclassified	113	83	1	2	2	3	2	2	259	344
Megasphaera										
Megasphaera micronuciformis_oral_taxon_122										
Mitsuokella sp._oral_taxon_131										
Mitsuokella sp._oral_taxon_521										
Mogibacterium timidum_oral_taxon_042										
Mogibacterium vescum_oral_taxon_008	0	0	108	90	78	18	48	40	0	0
Mollicutes_[G-1] sp._oral_taxon_504										
Mollicutes_[G-2] sp._oral_taxon_906										
Moraxella catarrhalis_oral_taxon_833	6182	7598	10	16	0	0	9	14	4	6
Moryella sp._oral_taxon_097										
Moryella sp._oral_taxon_373										
Mycoplasma	10	13	87	31	27	31	216	271	5	6
Neisseria_unclassified	11310	13863	33	53	2	0	2	3	13	2
Neisseriaceae_unclassified	985	1391	1	1	66	59	27	46	78	110
Neisseria oralis_oral_taxon_014	362	430	4	4	61	64	235	406	6204	3586
Olsenella sp._oral_taxon_807										
Oribacterium	3	4	1032	982	63	30	48	47	67	93
Oribacterium sp._oral_taxon_078	7	10	167	122	5	5	42	38	21	30
Oribacterium sp._oral_taxon_102										
Parvimonas_unclassified	2	1	591	930	726	993	336	560	78	110
Parvimonas micra_oral_taxon_111	0	0	1396	1584	359	495	656	1018	4	0
Pasteurellaceae_unclassified	13790	4966	430	210	1950	1850	297	284	3514	2072
Peptococcus sp._oral_taxon_167	14	18	304	99	291	291	359	297	21	25
Peptostreptococcaceae_[XI][G-1] sp._oral_taxon_383										
Peptostreptococcaceae_[XI][G-2] sp._oral_taxon_091										
Peptostreptococcaceae_[XI][G-4]	0	0	56	94	3	2	302	117	0	0
Peptostreptococcaceae_[XI][G-5] sp._oral_taxon_493	2	1	75	129	0	0	119	206	2	2
Peptostreptococcaceae_[XI][G-7] sp._oral_taxon_081										
Peptostreptococcaceae_[XI]_unclassified	21	20	77	39	155	112	284	205	43	28
Peptostreptococcaceae_[XIII][G-1] sp._oral_taxon_113										
Peptostreptococcaceae_[XIII][G-2] sp._oral_taxon_790	0	0	0	1	54	76	155	206	0	0
Peptostreptococcaceae_[XIII]_unclassified										
Peptostreptococcus stomatis_oral_taxon_112	0	0	234	199	24	32	233	165	0	0
Porphyromonadaceae_unclassified										
Porphyromonas_unclassified	754	383	23	14	50	69	48	50	731	1031
Porphyromonas catoniae_oral_taxon_283										
Porphyromonas endodontalis_oral_taxon_273	15	8	836	1123	4781	2353	2338	2068	1	1
Porphyromonas gingivalis_oral_taxon_619	3	2	417	714	5	1	11055	14239	3	4
Porphyromonas sp._oral_taxon_279	4998	4282	232	142	1041	85	429	323	9743	2351
Prevotella_unclassified	243	127	2259	2921	606	625	1823	2778	1828	2341
Prevotella baroniae_oral_taxon_553										
Prevotella buccae_oral_taxon_560	0	0	2312	1772	291	217	123	169	1	1
Prevotellaceae_unclassified	186	258	9718	10335	3188	1164	2212	957	11	11
Prevotella dentalis_oral_taxon_583	118	166	7309	3175	1214	1712	2518	2317	4	4
Prevotella denticola_oral_taxon_291										

Prevotella enoeca_oral_taxon_600										
Prevotella fusca_oral_taxon_782										
Prevotella intermedia_oral_taxon_643										
Prevotella maculosa_oral_taxon_289										
Prevotella marshii_oral_taxon_665										
Prevotella melaninogenica_oral_taxon_469	1	1	468	682	168	170	46	79	38	47
Prevotella micans_oral_taxon_378										
Prevotella nigrescens_oral_taxon_693										
Prevotella oralis_oral_taxon_705										
Prevotella oris_oral_taxon_311										
Prevotella oulorum_oral_taxon_288										
Prevotella saccharolytica_oral_taxon_781										
Prevotella sp._oral_taxon_299	242	342	1	1	0	0	5	5	27	37
Prevotella sp._oral_taxon_300										
Prevotella sp._oral_taxon_304	3	4	743	673	12	17	2148	3717	2	2
Prevotella sp._oral_taxon_313	238	280	6035	4999	4720	2164	88	101	525	730
Prevotella sp._oral_taxon_315										
Prevotella sp._oral_taxon_317	2	2	1078	1273	1404	1589	281	180	31	42
Prevotella sp._oral_taxon_376										
Prevotella sp._oral_taxon_443										
Prevotella sp._oral_taxon_472										
Prevotella sp._oral_taxon_515										
Prevotella sp._oral_taxon_526	1	1	291	503	2	3	474	515	4	1
Prevotella sp._oral_taxon_820	0	0	1285	696	185	259	509	731	1	1
Prevotellaceae_unclassified										
Proteobacteria_unclassified										
Pyramidobacter pisciolens_oral_taxon_357										
Rothia_unclassified	806	805	1	1	0	0	1	2	6	5
Scardovia wiggisiae_oral_taxon_195										
Selenomonas_unclassified	37	25	1240	1482	852	115	2731	1421	15	15
Selenomonas dianaе_oral_taxon_139										
Selenomonas sp._oral_taxon_501	0	0	43	64	95	78	320	194	1	1
Selenomonas sputigena_oral_taxon_151	25	1	908	1534	556	670	3233	2829	19	12
Shuttleworthia satelles_oral_taxon_095										
Solobacterium moorei_oral_taxon_678										
SR1_[G-1]										
SR1_[G-1]sp._oral_taxon_345										
SR1_[G-1]sp._oral_taxon_874										
SR1_[G-1]sp._oral_taxon_875										
Streptococcus_unclassified	10421	7144	446	256	513	351	121	84	8409	10110
Streptococcus anginosus_oral_taxon_543										
Streptococcus downei_oral_taxon_594	4	6	5352	4632	659	929	426	723	1111	1570
Streptococcus mutans_oral_taxon_686	0	0	623	1079	1	1	16	21	1	1
Streptococcus parasanguinis_II_oral_taxon_411	15047	15199	3074	2172	12745	1894	2546	2099	8185	6132
Streptococcus sp._oral_taxon_058	6150	6049	1719	1844	4730	6167	894	1449	2088	946
Syntrophomonadaceae_[VIII][G-1]sp._oral_taxon_435										
Tannerella										
Tannerella forsythia_oral_taxon_613	14	19	122	109	346	486	871	702	2	2
Tannerella sp._oral_taxon_286	4	6	104	116	213	281	169	109	38	46
Tannerella sp._oral_taxon_916										
TM7_[G-3]sp._oral_taxon_351										
Treponema_unclassified	989	1374	2406	2611	1593	665	6196	5780	180	250
Treponema amylovorum_oral_taxon_541										
Treponema denticola_oral_taxon_584	94	127	1504	2178	2701	1048	8168	5968	1	0
Treponema lecithinolyticum_oral_taxon_653	94	132	164	141	936	1217	215	36	1	0
Treponema maltophilum_oral_taxon_664	2	3	118	116	649	247	419	431	7	9
Treponema parvum_oral_taxon_724										
Treponema pectinovorum_oral_taxon_725										
Treponema socranskii_oral_taxon_769	0	0	2	3	145	194	271	462	0	0
Treponema sp._oral_taxon_237										
Treponema sp._oral_taxon_239										

Treponema sp._oral_taxon_242										
Treponema sp._oral_taxon_246	2785	3937	22	6	98	59	1540	1330	16	19
Treponema sp._oral_taxon_249										
Treponema sp._oral_taxon_250	401	567	443	445	650	37	1516	466	1	1
Treponema sp._oral_taxon_252										
Treponema sp._oral_taxon_254										
Treponema sp._oral_taxon_255	0	0	127	220	0	0	262	454	0	0
Treponema sp._oral_taxon_257										
Treponema sp._oral_taxon_258	0	0	31	54	0	0	1024	1773	0	0
Treponema sp._oral_taxon_263										
Treponema sp._oral_taxon_270										
Treponema sp._oral_taxon_271										
Treponema sp._oral_taxon_508										
Veillonella_unclassified	3816	28	15648	14879	39946	11165	16308	7177	20948	24522
Veillonellaceae_[G-1]_unclassified	1	1	142	242	0	0	417	722	0	0
Veillonellaceae_[G-1]sp._oral_taxon_129										
Veillonellaceae_[G-1]sp._oral_taxon_145										
Veillonellaceae_[G-1]sp._oral_taxon_155										
Veillonellaceae_unclassified	12	9	7	8	13	15	12	9	625	882
Veillonella dispar_oral_taxon_160	0	0	159	140	225	296	65	111	1	1
Veillonella parvula_oral_taxon_161	154	123	46837	6406	15577	16031	8759	13703	13784	19354
Veillonella sp._oral_taxon_780	78	110	6	7	0	0	1	2	1108	1551

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18 **Supplemental Table 3.** OTU distribution in samples from Adolescent group.

OTU ID	Baseline		0.5		1		3		5	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Abiotrophia defectiva_oral_taxon_389	1503	1745	113	159	147	84	145	184	959	887
Actinobaculum sp._oral_taxon_183	1	1	6	8	323	354	552	774	215	241
Actinomyces	16	16	94	132	130	122	51	44	1109	440
Actinomyces sp._oral_taxon_171										
Actinomyces sp._oral_taxon_179										
Actinomyces sp._oral_taxon_180										
Actinomyces sp._oral_taxon_449										
Aggregatibacter_unclassified	133	122	1780	1881	19	20	48	42	576	495
Aggregatibacter actinomycetemcomitans_oral_taxon_531	789	1008	9909	13695	1885	1799	10264	17697	2195	2722
Aggregatibacter sp._oral_taxon_458										
Aggregatibacter sp._oral_taxon_513	240	333	42	8	196	188	4	4	1169	675
Alloprevotella_unclassified										
Alloprevotella rava_oral_taxon_302										
Alloprevotella sp._oral_taxon_308	0	0	0	0	246	389	0	0	3	4
Alloprevotella sp._oral_taxon_473	588	496	0	0	478	598	16	24	384	98
Alloprevotella sp._oral_taxon_912	1	1	0	0	37	33	522	821	114	104
Alloprevotella tanneriae_oral_taxon_466	1	1	0	0	458	785	0	0	19	31
Atopobium_unclassified										
Atopobium parvulum_oral_taxon_723										
Atopobium sp._oral_taxon_199	0	0	563	795	202	293	29	48	13	23
Atopobium sp._oral_taxon_810										
Bacteria_unclassified	83	50	156	220	1340	1173	166	279	719	573
Bacteroidaceae [G-1] sp._oral_taxon_272										
Bacteroidales [G-2]sp._oral_taxon_274	0	0	338	477	375	97	16	25	706	629
Bacteroidales_unclassified										
Bacteroides_unclassified										
Bacteroides heparinolyticus_oral_taxon_630	0	0	0	0	109	164	0	0	65	113
Bacteroides tectus_oral_taxon_787										
Bacteroides zoogloformans_oral_taxon_465										
Bacteroidetes [G-3]	0	0	0	0	293	507	0	0	43	74
Bacteroidetes [G-3]sp._oral_taxon_280										
Bacteroidetes [G-3]sp._oral_taxon_365										
Bacteroidetes [G-3]sp._oral_taxon_436										
Bacteroidetes [G-3]sp._oral_taxon_503										
Bacteroidetes [G-4]sp._oral_taxon_509										
Bacteroidetes [G-5]sp._oral_taxon_505	1	1	0	0	260	234	0	0	0	1
Bacteroidetes [G-5]sp._oral_taxon_507										
Bacteroidetes [G-5]sp._oral_taxon_511	0	0	0	0	301	204	0	0	0	0
Bacteroidetes_unclassified										
Bergeyella_unclassified	101	80	788	1114	15	13	29	38	181	268
Bergeyellasp._oral_taxon_907										
Burkholderiaceae_unclassified	0	0	0	0	5	8	39	44	243	329
Burkholderiales_unclassified	0	0	0	0	87	99	162	256	8	8
Butyrivibriosp._oral_taxon_094										
Campylobacter_unclassified	6	8	0	0	48	46	105	178	265	455
Campylobacter concisus_oral_taxon_575										
Campylobacter rectus_oral_taxon_748	8	9	83	117	615	785	435	141	332	375
Campylobacter sp._oral_taxon_044										
Capnocytophaga_unclassified	503	642	1913	2705	787	673	646	418	5990	2198
Capnocytophaga granulosa_oral_taxon_325	6	8	0	0	52	67	256	443	2260	3498
Capnocytophagasp._oral_taxon_326	6	8	0	0	0	0	0	0	522	903
Cardiobacterium_unclassified	1	1	0	0	3	3	18	18	230	323
Cardiobacterium hominis_oral_taxon_633	4	5	0	0	7	9	1	2	215	343
Cardiobacterium valvulum_oral_taxon_540										
Catonella morbi_oral_taxon_165	45	64	113	159	336	157	254	279	298	304
Catonella sp._oral_taxon_451										
Chloroflexi [G-1]sp._oral_taxon_439	1	0	0	0	1226	1325	0	1	469	809
Clostridiales [F-1][G-1]sp._oral_taxon_093										



Clostridiales [F-1][G-2]sp.oral_taxon_402										
Clostridiales [F-2][G-1]sp.oral_taxon_075	1	1	113	159	61	71	850	1470	266	325
Clostridiales [F-2][G-2]sp.oral_taxon_085	0	0	113	159	130	111	0	0	418	708
Clostridiales [F-2][G-3]sp.oral_taxon_381										
Clostridiales [F-2]_unclassified										
Clostridiales_unclassified	53	64	113	159	278	370	162	281	354	506
Comomonadaceae_unclassified										
Coriobacteriaceae_unclassified										
Corynebacterium durum_oral_taxon_595	109	154	0	0	3	5	7	12	240	302
Corynebacterium matruchotii_oral_taxon_666	2	3	113	159	2	0	0	1	2770	4782
Desulfobulbus sp.oral_taxon_041	1	1	0	0	426	639	0	0	117	199
Desulfomicrobium orale_oral_taxon_703										
Desulfovibrio fairfieldensis_oral_taxon_605	0	0	788	1114	193	281	1089	639	15	26
Desulfovibrio sp.oral_taxon_040										
Dialister invisus_oral_taxon_118	0	0	0	0	486	643	13	21	0	1
Eikenella_unclassified	8	11	0	0	13	12	503	780	186	299
Eikenella corrodens_oral_taxon_577	12	17	0	0	29	23	55	89	204	262
Erysipelotrichaceae_unclassified										
Escherichiacoli_oral_taxon_574	2119	2877	3713	5250	174	147	66	54	397	616
Eubacterium [XI][G-1]infirmum_oral_taxon_105	2	1	406	149	1345	884	388	673	338	584
Eubacterium [XI][G-3]brachy_oral_taxon_557	0	0	0	0	249	302	284	189	71	121
Eubacterium [XI][G-6]										
Eubacterium [XI][G-6]minutum_oral_taxon_673										
Filifactor alocis_oral_taxon_539	2	1	0	0	421	350	10	18	35	60
Firmicutes_unclassified	5	7	0	0	205	346	19	18	8	7
Fretibacterium_unclassified	2	3	0	0	2349	4050	2	1	32	52
Fretibacterium fastidiosum_oral_taxon_363	2	1	113	159	1703	1831	2	2	353	599
Fretibacterium sp.oral_taxon_361	6	4	185	97	3343	3904	1	2	1942	3340
Fusobacterium_unclassified	1156	253	9450	13364	12896	9539	2948	4395	9524	13640
Fusobacterium nucleatum ss_vincentii_oral_taxon_200	0	0	2204	2162	263	435	684	880	294	295
Fusobacterium periodonticum_oral_taxon_201	0	0	900	1273	465	805	358	620	27	33
Fusobacterium sp.oral_taxon_203	0	0	1046	1160	4	4	8199	7100	15112	14246
Gemella morbillorum_oral_taxon_046	2459	2098	467	660	551	294	310	527	1595	1436
Haemophilus_unclassified	106	132	0	0	31	49	77	130	353	486
Haemophilussp.oral_taxon_035	15619	16500	1350	1909	242	313	35	49	5149	8406
Helicobacterpylori_oral_taxon_812										
Johnsonellaignava_oral_taxon_635	1	1	267	377	540	436	133	193	430	492
Johnsonellasp.oral_taxon_166										
Kingella sp.oral_taxon_459	1796	2266	0	0	161	255	50	86	3	3
Lachnoanaerobaculum_unclassified										
Lachnoanaerobaculumsp.oral_taxon_083	0	0	0	0	28	23	91	95	1318	2276
Lachnoanaerobaculumsp.oral_taxon_496	0	0	0	0	57	45	30	53	137	228
Lachnoanaerobaculum umeaense_oral_taxon_107	0	0	0	0	78	63	103	90	228	395
Lachnospiraceae [G-2]_unclassified	127	59	563	795	57	70	5	3	269	415
Lachnospiraceae [G-2]sp.oral_taxon_088	62	85	0	0	155	40	223	131	797	756
Lachnospiraceae [G-2]sp.oral_taxon_096										
Lachnospiraceae [G-3]sp.oral_taxon_100	4	3	338	477	139	109	1362	1756	1312	1176
Lachnospiraceae [G-5]sp.oral_taxon_080										
Lachnospiraceae [G-6]sp.oral_taxon_090										
Lachnospiraceae [G-8]sp.oral_taxon_500	0	0	0	0	218	179	0	0	26	44
Lachnospiraceae [XIVa]_unclassified										
Lactobacillales_unclassified	1685	1548	338	477	21	32	6	9	654	1013
Lactobacillus										
Lactobacillus [XVII] catenaformis_oral_taxon_569										
Lactobacillus gasseri_oral_taxon_615										
Lactobacillus salivarius_oral_taxon_756										
Lactobacillus sp.oral_taxon_052										

Lactobacillus vaginalis_oral_taxon_051										
Leptotrichia_unclassified	277	293	934	97	2390	1775	5755	7449	21311	13690
Leptotrichia goodfellowii_oral_taxon_845	394	557	0	0	0	0	1	1	0	1
Leptotrichia hongkongensis_oral_taxon_213										
Leptotrichia sp._oral_taxon_212										
Leptotrichia sp._oral_taxon_223	0	0	113	159	382	335	0	0	7481	12957
Leptotrichia sp._oral_taxon_225	0	0	563	795	2	2	319	552	0	1
Leptotrichia sp._oral_taxon_392	2	3	0	0	58	21	0	0	2528	2428
Leptotrichia sp._oral_taxon_498										
Leptotrichia sp._oral_taxon_847										
Leptotrichiaceae_unclassified										
Megasphaera	56	78	113	159	0	1	347	586	0	0
Megasphaera micronuciformis_oral_taxon_122										
Mitsuokella sp._oral_taxon_131										
Mitsuokella sp._oral_taxon_521										
Mogibacterium timidum_oral_taxon_042										
Mogibacterium vescum_oral_taxon_008										
Mollicutes_[G-1] sp._oral_taxon_504										
Mollicutes_[G-2] sp._oral_taxon_906										
Moraxella catarrhalis_oral_taxon_833	14030	13357	156	220	249	208	2	3	937	1188
Moryella sp._oral_taxon_097	0	0	0	0	173	242	0	0	0	0
Moryella sp._oral_taxon_373										
Mycoplasma	0	0	0	0	1	1	536	929	1	1
Neisseria_unclassified	2517	2512	0	0	35	44	14	23	233	212
Neisseriaceae_unclassified	989	1033	1238	1750	91	44	4	3	524	641
Neisseria oralis_oral_taxon_014	51	54	338	477	0	0	1	2	15708	26154
Olsenella sp._oral_taxon_807										
Oribacterium										
Oribacterium sp._oral_taxon_078										
Oribacterium sp._oral_taxon_102										
Parvimonas_unclassified	1	1	2290	2920	1433	640	1134	298	264	414
Parvimonas micra_oral_taxon_111										
Pasteurellaceae_unclassified	5913	6047	50	70	567	417	558	427	3504	3238
Peptococcus sp._oral_taxon_167	1	1	371	372	928	1071	188	237	160	183
Peptostreptococcaceae_[XI][G-1] sp._oral_taxon_383										
Peptostreptococcaceae_[XI][G-2] sp._oral_taxon_091										
Peptostreptococcaceae_[XI][G-4]	0	0	0	0	173	171	0	0	7	12
Peptostreptococcaceae_[XI][G-5] sp._oral_taxon_493										
Peptostreptococcaceae_[XI][G-7] sp._oral_taxon_081										
Peptostreptococcaceae_[XI]_unclassified	1	1	21	29	380	411	256	331	223	263
Peptostreptococcaceae_[XIII][G-1] sp._oral_taxon_113										
Peptostreptococcaceae_[XIII][G-2] sp._oral_taxon_790	0	0	563	795	241	403	0	0	0	0
Peptostreptococcaceae_[XIII]_unclassified										
Peptostreptococcus stomatis_oral_taxon_112	1	1	144	111	641	270	0	1	155	260
Porphyromonadaceae_unclassified										
Porphyromonas_unclassified	1199	1440	225	318	12	9	11	19	101	123
Porphyromonas catoniae_oral_taxon_283										
Porphyromonas endodontalis_oral_taxon_273	1	1	225	318	951	1193	91	157	2	1
Porphyromonas gingivalis_oral_taxon_619	3	2	612	865	6281	5655	1256	2170	1351	2328
Porphyromonas sp._oral_taxon_279	3067	3792	3375	4773	785	517	1331	1262	4795	5244
Prevotella_unclassified	258	247	5443	7697	4438	4545	463	462	5269	7026
Prevotella baroniae_oral_taxon_553										
Prevotella buccae_oral_taxon_560	1	1	113	159	234	165	1	2	1397	2392
Prevotellaceae_unclassified	3	1	1350	1909	1377	1102	355	613	2077	2117
Prevotella dentalis_oral_taxon_583	2	2	3150	4455	7317	6112	7955	10480	14	20
Prevotella denticola_oral_taxon_291										

Prevotella enoeca_oral_taxon_600										
Prevotella fusca_oral_taxon_782										
Prevotella intermedia_oral_taxon_643										
Prevotella maculosa_oral_taxon_289										
Prevotella marshii_oral_taxon_665	0	0	113	159	349	604	0	0	0	1
Prevotella melaninogenica_oral_taxon_469	0	0	0	0	77	72	0	1	279	483
Prevotella micans_oral_taxon_378										
Prevotella nigrescens_oral_taxon_693										
Prevotella oralis_oral_taxon_705										
Prevotella oris_oral_taxon_311										
Prevotella oulorum_oral_taxon_288										
Prevotella saccharolytica_oral_taxon_781	0	0	0	0	57	89	61	106	148	227
Prevotella sp._oral_taxon_299										
Prevotella sp._oral_taxon_300										
Prevotella sp._oral_taxon_304	1	1	113	159	713	1234	0	1	36	58
Prevotella sp._oral_taxon_313	4	2	0	0	7852	7248	1	1	4	2
Prevotella sp._oral_taxon_315										
Prevotella sp._oral_taxon_317	1	0	3173	351	622	736	1964	1706	1582	1999
Prevotella sp._oral_taxon_376	0	0	450	636	181	309	1	2	324	554
Prevotella sp._oral_taxon_443										
Prevotella sp._oral_taxon_472										
Prevotella sp._oral_taxon_515										
Prevotella sp._oral_taxon_526	3	0	1350	1909	372	638	3	4	210	360
Prevotella sp._oral_taxon_820	1	1	653	302	2177	994	1	1	277	477
Prevotellaceae_unclassified										
Proteobacteria_unclassified										
Pyramidobacter piscolens_oral_taxon_357										
Rothia_unclassified	869	1104	0	0	0	1	5	6	45	49
Scardovia wiggisiae_oral_taxon_195										
Selenomonas_unclassified	32	20	311	440	888	670	4133	3070	4196	3678
Selenomonas dianaе_oral_taxon_139										
Selenomonas sp._oral_taxon_501	1	1	113	159	84	100	201	176	0	1
Selenomonas sputigena_oral_taxon_151	4	1	1060	1499	1438	784	3	2	10	6
Shuttleworthia satelles_oral_taxon_095										
Solobacterium moorei_oral_taxon_678	0	0	0	0	102	53	160	144	38	66
SR1_[G-1]	6	8	0	0	114	187	0	0	59	86
SR1_[G-1]sp._oral_taxon_345	0	0	563	795	19	32	0	1	757	686
SR1_[G-1]sp._oral_taxon_874	0	0	0	0	5	4	0	1	163	150
SR1_[G-1]sp._oral_taxon_875										
Streptococcus_unclassified	4471	3871	1496	524	458	180	5317	6024	3507	5413
Streptococcus anginosus_oral_taxon_543										
Streptococcus downei_oral_taxon_594	39	54	3795	1230	189	328	1829	3158	1	2
Streptococcus mutans_oral_taxon_686										
Streptococcus parasanguinis_II_oral_taxon_411	413	69	1297	75	4823	2342	9446	11063	2555	2010
Streptococcus sp._oral_taxon_058	2270	2932	622	880	880	549	445	721	1786	1083
Syntrophomonadaceae_[VIII][G-1]sp._oral_taxon_435										
Tannerella	1	1	0	0	16	17	1	2	367	636
Tannerella forsythia_oral_taxon_613	1	1	381	98	1228	1539	1167	1616	66	112
Tannerella sp._oral_taxon_286	1	1	563	795	118	179	412	607	604	600
Tannerella sp._oral_taxon_916										
TM7_[G-3]sp._oral_taxon_351										
Treponema_unclassified	3	4	0	0	1018	503	172	294	1270	2195
Treponema amylovorum_oral_taxon_541										
Treponema denticola_oral_taxon_584	4	1	225	318	3444	1941	2	1	383	658
Treponema lecithinolyticum_oral_taxon_653	1	1	82	28	1410	1363	0	1	676	1171
Treponema maltophilum_oral_taxon_664	0	0	0	0	555	345	0	0	190	329
Treponema parvum_oral_taxon_724										
Treponema pectinovorum_oral_taxon_725										
Treponema socranskii_oral_taxon_769										
Treponema sp._oral_taxon_237										
Treponema sp._oral_taxon_239										

Treponema sp._oral_taxon_242										
Treponema sp._oral_taxon_246										
Treponema sp._oral_taxon_249										
Treponema sp._oral_taxon_250										
Treponema sp._oral_taxon_252										
Treponema sp._oral_taxon_254										
Treponema sp._oral_taxon_255										
Treponema sp._oral_taxon_257										
Treponema sp._oral_taxon_258										
Treponema sp._oral_taxon_263										
Treponema sp._oral_taxon_270										
Treponema sp._oral_taxon_271										
Treponema sp._oral_taxon_508										
Veillonella_unclassified	848	71	15504	12380	21622	3752	31988	42626	19836	16594
Veillonellaceae_[G-1]_unclassified	1	1	0	0	579	1002	1	2	1076	1842
Veillonellaceae_[G-1]sp._oral_taxon_129										
Veillonellaceae_[G-1]sp._oral_taxon_145										
Veillonellaceae_[G-1]sp._oral_taxon_155										
Veillonellaceae_unclassified	49	69	0	0	8	9	77	110	319	462
Veillonella dispar_oral_taxon_160	364	462	7153	10116	323	557	3707	6308	7	11
Veillonella parvula_oral_taxon_161	69	80	799	33	865	694	4432	7450	125	105
Veillonella sp._oral_taxon_780	125	177	0	0	21	36	4	7	91	137

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**Supplemental Table 4.** OTU distribution in samples from Adult group.

OTU ID	Baseline		0.5		1		3		5	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Abiotrophia defectiva_oral_taxon_389	88	80	495	421	45	75	142	177	93	119
Actinobaculum sp._oral_taxon_183	232	174	231	190	80	70	276	161	178	118
Actinomyces_unclassified	214	215	196	169	10	17	345	427	347	263
Actinomyces sp._oral_taxon_171										
Actinomyces sp._oral_taxon_179										
Actinomyces sp._oral_taxon_180										
Actinomyces sp._oral_taxon_449	16	28	2	3	4	7	93	226	6	6
Aggregatibacter_unclassified	77	128	62	77	100	169	1113	1722	40	10
Aggregatibacter actinomycetemcomitans_oral_taxon_531	1492	1939	537	354	3124	2316	434	267	1407	708
Aggregatibacter sp._oral_taxon_458	44	61	91	158	0	0	15	31	0	0
Aggregatibacter sp._oral_taxon_513	211	366	251	248	41	70	27	51	58	33
Alloprevotella_unclassified	8	10	15	12	47	81	52	68	110	51
Alloprevotella rava_oral_taxon_302	68	85	116	197	307	423	27	21	382	512
Alloprevotella sp._oral_taxon_308	49	66	13	21	3	6	61	43	42	65
Alloprevotella sp._oral_taxon_473	411	381	874	984	587	507	1903	1140	118	58
Alloprevotella sp._oral_taxon_912	104	78	80	107	47	51	186	226	41	9
Alloprevotella tanneriae_oral_taxon_466	600	668	2413	4162	998	1702	693	504	421	636
Atopobium_unclassified	162	324	28	43	67	115	359	706	136	198
Atopobium parvulum_oral_taxon_723	9	9	35	59	7	9	88	101	9	13
Atopobium sp._oral_taxon_199	41	44	18	22	12	20	40	25	15	23
Atopobium sp._oral_taxon_810	7	9	4	6	12	21	38	71	188	289
Bacteria_unclassified	2286	1667	1592	1828	1547	1320	5777	3233	4140	4329
Bacteroidaceae [G-1] sp._oral_taxon_272	218	164	89	96	97	89	430	516	711	889
Bacteroidales [G-2]sp._oral_taxon_274	753	99	483	642	404	530	891	1286	696	684
Bacteroidales_unclassified	226	276	361	481	322	296	266	311	356	358
Bacteroides_unclassified	383	153	357	520	14	8	411	583	128	78
Bacteroides heparinolyticus_oral_taxon_630	106	80	258	298	305	228	615	517	274	239
Bacteroides tectus_oral_taxon_787	51	114	2	3	19	33	104	252	0	0
Bacteroides zoogloiformans_oral_taxon_465	0	0	0	0	119	207	230	559	1	1
Bacteroidetes [G-3]	78	106	13	18	137	219	567	627	524	366
Bacteroidetes [G-3]sp._oral_taxon_280	37	46	357	566	79	82	112	102	75	46
Bacteroidetes [G-3]sp._oral_taxon_365	176	235	0	1	2413	2328	926	1799	488	225
Bacteroidetes [G-3]sp._oral_taxon_436	65	59	35	55	45	37	83	65	191	313
Bacteroidetes [G-3]sp._oral_taxon_503	37	62	193	316	12	21	64	48	62	65
Bacteroidetes [G-4]sp._oral_taxon_509										
Bacteroidetes [G-5]sp._oral_taxon_505	88	120	360	548	105	182	177	105	158	141
Bacteroidetes [G-5]sp._oral_taxon_507	74	136	3	5	8	13	68	110	60	74
Bacteroidetes [G-5]sp._oral_taxon_511	113	65	325	392	106	135	60	83	86	56
Bacteroidetes_unclassified	824	1663	105	163	1523	2595	2297	3077	4767	5308
Bergeyella_unclassified	16	23	146	127	20	29	142	263	26	40
Bergeyellasp._oral_taxon_907	140	197	12	19	0	0	9	12	46	36
Burkholderiaceae_unclassified	59	70	37	34	0	0	14	33	8	14
Burkholderiales_unclassified	64	94	100	141	63	90	32	63	54	73
Butyrivibriosp._oral_taxon_094	31	42	31	41	8	8	94	43	71	70
Campylobacter_unclassified	432	254	230	86	108	58	219	442	428	36
Campylobacter concisus_oral_taxon_575										
Campylobacter rectus_oral_taxon_748	759	650	689	270	719	358	375	310	452	102
Campylobacter sp._oral_taxon_044	51	70	912	839	326	565	5	6	67	116
Capnocytophaga_unclassified	2076	2156	1134	1356	139	113	1369	2179	1111	947
Capnocytophaga granulosa_oral_taxon_325	131	183	227	370	15	21	340	297	299	355
Capnocytophagasp._oral_taxon_326										
Cardiobacterium_unclassified	99	191	122	175	34	58	28	36	24	14
Cardiobacterium hominis_oral_taxon_633	86	142	20	23	0	0	9	15	6	4
Cardiobacterium valvulum_oral_taxon_540	117	142	19	21	0	0	32	59	25	9
Catonella morbi_oral_taxon_165	775	606	1310	580	468	392	1227	684	443	52
Catonella sp._oral_taxon_451										
Chloroflexi [G-1]sp._oral_taxon_439	584	411	83	60	1106	1478	1833	1500	2027	1606
Clostridiales [F-1][G-1]sp._oral_taxon_093	61	51	51	36	114	138	296	598	154	160

Clostridiales [F-1][G-2]sp.oral_taxon_402	62	70	30	28	844	731	471	549	771	1041
Clostridiales [F-2][G-1]sp.oral_taxon_075	576	714	319	553	123	165	265	195	243	97
Clostridiales [F-2][G-2]sp.oral_taxon_085	176	151	270	466	12	19	131	119	142	89
Clostridiales [F-2][G-3]sp.oral_taxon_381	35	79	2	2	3	4	294	458	25	40
Clostridiales [F-2]_unclassified										
Clostridiales_unclassified	229	248	365	250	904	802	737	736	549	388
Comomonadaceae_unclassified										
Coriobacteriaceae_unclassified										
Corynebacterium durum_oral_taxon_595	46	51	64	104	0	0	2	2	25	18
Corynebacterium matruchotii_oral_taxon_666	765	739	723	839	8	13	673	1554	647	626
Desulfobulbus sp.oral_taxon_041	556	281	221	128	352	232	567	727	704	97
Desulfomicrobium orale_oral_taxon_703	231	262	0	0	597	807	524	362	228	336
Desulfovibrio fairfieldensis_oral_taxon_605	8	13	5	6	7	6	96	106	115	199
Desulfovibrio sp.oral_taxon_040										
Dialister invisus_oral_taxon_118	291	222	287	452	714	801	349	263	589	457
Eikenella_unclassified										
Eikenella corrodens_oral_taxon_577	144	155	369	334	106	178	55	39	65	61
Erysipelotrichaceae_unclassified										
Escherichiacoli_oral_taxon_574	52	27	207	191	136	151	53	9	71	67
Eubacterium [X][G-1]infirmum_oral_taxon_105	332	208	454	613	605	987	874	402	635	405
Eubacterium [X][G-3]brachy_oral_taxon_557	172	127	671	696	296	159	182	180	74	55
Eubacterium [X][G-6]										
Eubacterium [X][G-6]minutum_oral_taxon_673										
Filifactor alocis_oral_taxon_539	220	167	790	1266	1108	976	893	667	701	218
Firmicutes_unclassified	78	95	20	29	92	44	284	298	422	533
Fretibacterium_unclassified	1183	1356	561	733	156	138	1723	4011	158	188
Fretibacterium fastidiosum_oral_taxon_363	2260	2776	1017	295	1733	971	1380	878	2879	1752
Fretibacterium sp.oral_taxon_361	5282	6155	2490	1917	6220	2587	4478	2528	9491	3718
Fusobacterium_unclassified	7077	3979	25171	21957	16417	14360	8198	3793	8125	3183
Fusobacterium nucleatum ss_vincentii_oral_taxon_200	26	45	3598	5734	2259	3876	21	15	10	12
Fusobacterium periodonticum_oral_taxon_201										
Fusobacterium sp.oral_taxon_203	2935	6138	19	24	4	4	2409	5011	79	116
Gemella morbillorum_oral_taxon_046	603	678	3388	4689	2245	3639	1565	772	515	424
Haemophilus_unclassified	49	66	77	69	72	74	320	583	1	2
Haemophilussp.oral_taxon_035	96	92	1922	3273	1186	2038	179	150	50	61
Helicobacterpylori_oral_taxon_812	23	41	10	13	15	27	48	52	30	42
Johnsonellaignava_oral_taxon_635	317	345	181	201	86	149	143	273	67	18
Johnsonellasp.oral_taxon_166										
Kingella sp.oral_taxon_459	0	1	307	532	191	324	1	2	0	0
Lachnoanaerobaculum_unclassified										
Lachnoanaerobaculumsp.oral_taxon_083	393	412	512	887	22	19	231	257	209	194
Lachnoanaerobaculumsp.oral_taxon_496	81	86	70	69	9	11	58	89	31	23
Lachnoanaerobaculum umeaense_oral_taxon_107	14	15	36	63	63	104	25	16	121	61
Lachnospiraceae [G-2]_unclassified	20	24	1940	3350	1036	1778	80	95	24	28
Lachnospiraceae [G-2]sp.oral_taxon_088	196	258	184	290	51	74	149	99	76	28
Lachnospiraceae [G-2]sp.oral_taxon_096										
Lachnospiraceae [G-3]sp.oral_taxon_100	597	635	824	1207	107	132	748	624	708	734
Lachnospiraceae [G-5]sp.oral_taxon_080										
Lachnospiraceae [G-6]sp.oral_taxon_090	13	14	5	6	20	35	22	29	345	584
Lachnospiraceae [G-8]sp.oral_taxon_500	166	95	143	86	172	149	217	79	198	170
Lachnospiraceae [XIVa]_unclassified	55	50	33	29	137	183	130	46	190	161
Lactobacillales_unclassified	19	23	389	657	316	544	79	94	15	19
Lactobacillus										
Lactobacillus [XVII] catenaformis_oral_taxon_569										
Lactobacillus gasseri_oral_taxon_615										
Lactobacillus salivarius_oral_taxon_756										
Lactobacillus sp.oral_taxon_052										

Lactobacillus vaginalis_oral_taxon_051										
Leptotrichia_unclassified	3075	3039	2695	3106	236	268	4527	3668	1891	1006
Leptotrichia goodfellowii_oral_taxon_845	1061	917	111	88	512	306	5	6	241	350
Leptotrichia hongkongensis_oral_taxon_213	912	1015	1191	1118	176	171	507	1032	306	392
Leptotrichia sp._oral_taxon_212	348	417	120	173	99	160	7	8	23	19
Leptotrichia sp._oral_taxon_223	1635	2313	609	1034	52	50	1821	1528	253	215
Leptotrichia sp._oral_taxon_225	493	640	273	405	36	62	408	742	401	24
Leptotrichia sp._oral_taxon_392	1076	1247	742	1226	296	491	565	809	347	352
Leptotrichia sp._oral_taxon_498										
Leptotrichia sp._oral_taxon_847										
Leptotrichiaceae_unclassified	7	12	561	957	328	567	8	8	2	3
Megasphaera										
Megasphaera micronuciformis_oral_taxon_122										
Mitsuokella sp._oral_taxon_131										
Mitsuokella sp._oral_taxon_521										
Mogibacterium timidum_oral_taxon_042	21	19	33	40	15	13	41	37	21	23
Mogibacterium vescum_oral_taxon_008	23	20	18	29	37	51	72	32	53	34
Mollicutes_[G-1] sp._oral_taxon_504	30	55	1	1	37	64	33	35	90	84
Mollicutes_[G-2] sp._oral_taxon_906	30	32	98	144	120	155	166	108	165	143
Moraxella catarrhalis_oral_taxon_833	200	361	214	348	139	221	62	83	81	127
Moryella sp._oral_taxon_097	79	89	47	74	9	8	468	350	48	48
Moryella sp._oral_taxon_373	34	24	31	50	77	67	88	30	135	177
Mycoplasma										
Neisseria_unclassified	263	369	28	22	4	6	3	4	137	222
Neisseriaceae_unclassified	21	8	1338	2286	895	1481	67	101	21	33
Neisseria oralis_oral_taxon_014	2	3	170	293	0	0	6	14	140	242
Olsenella sp._oral_taxon_807	126	130	13	21	1	2	28	56	49	56
Oribacterium	67	116	363	599	27	32	23	24	154	252
Oribacterium sp._oral_taxon_078	126	230	116	199	0	1	51	66	42	70
Oribacterium sp._oral_taxon_102	14	10	19	21	9	13	33	24	147	251
Parvimonas_unclassified	256	227	273	466	570	790	178	274	215	187
Parvimonas micra_oral_taxon_111	253	372	383	427	203	323	267	210	66	96
Pasteurellaceae_unclassified	853	967	2015	1817	1010	1732	508	530	656	391
Peptococcus sp._oral_taxon_167	315	221	1262	1726	573	646	146	62	412	437
Peptostreptococcaceae_[XII][G-1]sp._oral_taxon_383	157	125	118	150	75	83	192	129	143	111
Peptostreptococcaceae_[XII][G-2]sp._oral_taxon_091	40	38	105	116	55	29	40	18	24	9
Peptostreptococcaceae_[XII][G-4]	208	163	196	104	193	85	263	239	141	58
Peptostreptococcaceae_[XII][G-5]sp._oral_taxon_493	123	143	817	1054	337	237	340	201	162	71
Peptostreptococcaceae_[XII][G-7]sp._oral_taxon_081	46	57	126	135	78	10	99	75	69	51
Peptostreptococcaceae_[XII]_unclassified	310	144	559	161	211	84	531	365	598	244
Peptostreptococcaceae_[XIII][G-1]sp._oral_taxon_113	139	158	15	12	550	624	676	779	424	238
Peptostreptococcaceae_[XIII][G-2]sp._oral_taxon_790	125	76	28	35	233	194	356	293	516	218
Peptostreptococcaceae_[XIII]_unclassified	523	575	296	334	885	759	935	495	762	465
Peptostreptococcus stomatis_oral_taxon_112	302	283	294	109	359	217	708	315	180	67
Porphyromonadaceae_unclassified	14	26	5	6	329	568	1426	2367	539	719
Porphyromonas_unclassified	25	47	70	116	53	82	7	7	15	13
Porphyromonas catoniae_oral_taxon_283	48	98	82	140	0	1	4	7	14	13
Porphyromonas endodontalis_oral_taxon_273	1103	892	1396	1454	1587	1550	1013	815	1014	90
Porphyromonas gingivalis_oral_taxon_619	2510	1601	5305	8000	2282	2077	2611	2151	1909	884
Porphyromonas sp._oral_taxon_279	1224	1360	9812	15298	5929	9553	2392	1179	1034	525
Prevotella_unclassified	4319	2574	3720	3590	4231	4678	8130	7109	1229	337
Prevotella baroniae_oral_taxon_553	96	183	41	64	68	70	126	186	58	87
Prevotella buccae_oral_taxon_560	719	915	116	151	307	525	217	182	2230	3745
Prevotellaceae_unclassified										
Prevotella dentalis_oral_taxon_583	278	245	139	126	111	180	317	233	533	683
Prevotella denticola_oral_taxon_291	8	14	0	0	0	0	96	129	0	0

Prevotella enoeca_oral_taxon_600	1947	1248	2076	2771	1102	928	670	735	813	591
Prevotella fusca_oral_taxon_782	285	312	365	263	1263	1291	2660	4602	380	522
Prevotella intermedia_oral_taxon_643	303	674	27	23	6	7	526	1277	13	20
Prevotella maculosa_oral_taxon_289	195	193	110	170	1	2	27	42	54	53
Prevotella marshii_oral_taxon_665	120	269	28	48	0	0	18	29	18	31
Prevotella melaninogenica_oral_taxon_469										
Prevotella micans_oral_taxon_378										
Prevotella nigrescens_oral_taxon_693										
Prevotella oralis_oral_taxon_705	155	200	113	187	0	1	19	42	0	0
Prevotella oris_oral_taxon_311	84	76	47	53	13	6	361	496	119	115
Prevotella oulorum_oral_taxon_288										
Prevotella saccharolytica_oral_taxon_781	142	171	111	183	3	5	81	157	150	185
Prevotella sp._oral_taxon_299	70	122	2484	4301	1967	3397	7	6	15	14
Prevotella sp._oral_taxon_300	124	204	2	3	0	0	27	28	78	131
Prevotella sp._oral_taxon_304	1299	969	4159	6059	1809	1308	3106	2354	722	566
Prevotella sp._oral_taxon_313	1008	1446	3328	5135	420	359	1730	952	780	1151
Prevotella sp._oral_taxon_315	290	306	158	269	137	167	131	63	133	84
Prevotella sp._oral_taxon_317	1401	1835	978	1561	19	32	1512	2625	247	192
Prevotella sp._oral_taxon_376	150	228	93	29	38	49	69	98	5	9
Prevotella sp._oral_taxon_443	61	71	128	121	426	633	649	463	1747	1641
Prevotella sp._oral_taxon_472	65	118	23	39	0	0	22	52	73	75
Prevotella sp._oral_taxon_515										
Prevotella sp._oral_taxon_526	1429	931	2831	4475	4531	4582	6078	7531	6920	5371
Prevotella sp._oral_taxon_820	807	617	454	129	144	108	854	454	843	626
Prevotellaceae_unclassified	32	42	61	104	7	12	60	109	48	71
Proteobacteria_unclassified	45	73	33	22	48	58	60	87	43	51
Pyramidobacter piscolens_oral_taxon_357	483	770	373	567	221	187	826	715	296	410
Rothia_unclassified										
Scardovia wiggisiae_oral_taxon_195										
Selenomonas_unclassified	32	20	311	440	888	670	4133	3070	4196	3678
Selenomonas dianaе_oral_taxon_139	711	993	1494	2483	275	446	1828	2996	1343	1446
Selenomonas sp._oral_taxon_501	186	168	113	173	16	21	560	749	254	215
Selenomonas sputigena_oral_taxon_151	4814	4290	4345	5147	336	298	7844	7899	4168	5278
Shuttleworthia satelles_oral_taxon_095	23	29	5	4	5	2	12	22	109	184
Solobacterium moorei_oral_taxon_678	23	36	6	4	21	36	58	51	36	31
SR1_[G-1]	18	18	1656	2867	1118	1937	53	32	6	8
SR1_[G-1]sp._oral_taxon_345	764	681	605	902	1492	1415	1761	1871	1059	678
SR1_[G-1]sp._oral_taxon_874	18	24	57	75	2	3	29	61	40	53
SR1_[G-1]sp._oral_taxon_875	59	123	18	27	2	3	57	69	41	24
Streptococcus_unclassified	340	244	989	866	535	529	1827	1529	218	101
Streptococcus anginosus_oral_taxon_543										
Streptococcus downei_oral_taxon_594	2	2	4	6	0	0	247	370	0	0
Streptococcus mutans_oral_taxon_686										
Streptococcus parasanguinis_II_oral_taxon_411	1877	1211	3508	3007	1634	1913	3347	3227	1039	179
Streptococcus sp._oral_taxon_058	591	526	5603	5111	2482	4115	5607	6278	701	304
Syntrophomonadaceae_[VIII][G-1]sp._oral_taxon_435	83	82	85	142	110	99	233	255	370	160
Tannerella	186	412	34	41	116	180	383	740	40	68
Tannerella forsythia_oral_taxon_613	532	673	125	48	510	480	395	280	436	102
Tannerella sp._oral_taxon_286	160	177	185	266	20	26	85	71	192	181
Tannerella sp._oral_taxon_916	107	151	41	72	0	0	73	129	122	170
TM7_[G-3]sp._oral_taxon_351										
Treponema_unclassified	3044	1765	3867	1383	5016	2664	6065	4387	4935	3858
Treponema amylovorum_oral_taxon_541	125	279	0	0	0	0	0	1	16	28
Treponema denticola_oral_taxon_584	3184	2051	2841	2107	3711	2787	5012	2216	6294	2937
Treponema lecithinolyticum_oral_taxon_653	641	843	805	884	375	212	77	47	450	374
Treponema maltophilum_oral_taxon_664	549	178	500	368	338	269	767	903	679	261
Treponema parvum_oral_taxon_724	74	42	66	60	44	34	94	88	134	74
Treponema pectinovorum_oral_taxon_725	62	73	42	34	15	9	36	19	82	109
Treponema socranskii_oral_taxon_769	673	679	357	469	16	18	306	312	578	678
Treponema sp._oral_taxon_237	148	206	913	1476	26	18	187	323	310	513
Treponema sp._oral_taxon_239	45	43	177	169	222	146	226	267	203	236



Treponema sp._oral_taxon_242	62	67	85	82	50	62	56	60	14	18
Treponema sp._oral_taxon_246	996	1707	277	215	1451	951	166	264	622	428
Treponema sp._oral_taxon_249	95	86	280	407	449	774	837	553	874	913
Treponema sp._oral_taxon_250	219	203	362	440	420	334	255	214	316	140
Treponema sp._oral_taxon_252	26	44	109	103	217	282	202	396	22	20
Treponema sp._oral_taxon_254	39	38	87	99	29	26	65	53	84	133
Treponema sp._oral_taxon_255	52	83	27	23	140	205	151	290	100	64
Treponema sp._oral_taxon_257	145	209	41	72	5	9	0	0	54	81
Treponema sp._oral_taxon_258	146	127	754	955	631	370	766	524	576	311
Treponema sp._oral_taxon_263	91	158	385	610	178	200	552	1113	404	572
Treponema sp._oral_taxon_270	270	238	212	263	8	7	107	88	172	117
Treponema sp._oral_taxon_271	24	26	133	88	187	182	188	262	49	77
Treponema sp._oral_taxon_508	93	110	199	209	361	307	168	95	333	453
Veillonella_unclassified	1282	1192	4483	4044	770	986	22920	20593	1680	1021
Veillonellaceae_[G-1]_unclassified	253	167	901	731	796	66	979	488	522	376
Veillonellaceae_[G-1]sp._oral_taxon_129	1182	1475	81	22	19	27	287	431	417	653
Veillonellaceae_[G-1]sp._oral_taxon_145	74	142	0	0	246	426	140	196	153	132
Veillonellaceae_[G-1]sp._oral_taxon_155	2727	2776	1543	2664	108	183	2126	4398	1064	937
Veillonellaceae_unclassified										
Veillonella dispar_oral_taxon_160	0	1	3	2	0	0	117	182	0	1
Veillonella parvula_oral_taxon_161	2832	2908	1012	762	34	51	4292	4765	3022	5150
Veillonella sp._oral_taxon_780	43	86	961	1651	673	1165	5	5	12	21

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## Supplemental Table 5. OTU distribution in samples from Aged group.

OTU ID	Baseline		0.5		1		3		5	
	Mean	SD	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Abiotrophia defectiva_oral_taxon_389	84	105	46	50	23	37	26	31	69	84
Actinobaculum sp._oral_taxon_183	108	245	18	36	1	3	0	0	5	8
Actinomyces_unclassified	143	184	390	195	376	296	94	69	387	230
Actinomyces sp._oral_taxon_171	73	151	286	135	44	55	39	37	300	493
Actinomyces sp._oral_taxon_179	21	42	7	9	5	6	61	81	19	28
Actinomyces sp._oral_taxon_180	1	45	51	45	46	88	43	85	7	13
Actinomyces sp._oral_taxon_449										
Aggregatibacter_unclassified	156	1387	995	1493	47	88	4	5	1158	1534
Aggregatibacter										
actinomycetemcomitans_oral_taxon_531	1216	2102	1314	1601	554	949	190	280	980	1049
Aggregatibacter sp._oral_taxon_458	30	20	14	21	22	40	1	1	216	531
Aggregatibacter sp._oral_taxon_513	55	152	113	158	11	13	221	471	43	45
Alloprevotella_unclassified										
Alloprevotella rava_oral_taxon_302	478	64	56	63	169	263	26	22	184	216
Alloprevotella sp._oral_taxon_308	40	36	30	38	64	49	16	15	19	22
Alloprevotella sp._oral_taxon_473	379	688	453	767	156	159	169	159	621	1212
Alloprevotella sp._oral_taxon_912	314	94	20	17	107	89	31	44	180	272
Alloprevotella tanneriae_oral_taxon_466	637	337	102	149	813	875	48	49	394	541
Atopobium_unclassified	443	59	11	8	92	81	383	291	272	667
Atopobium parvulum_oral_taxon_723	117	121	67	133	7	10	9	13	10	10
Atopobium sp._oral_taxon_199	242	181	150	198	56	98	27	26	71	81
Atopobium sp._oral_taxon_810	9	287	155	313	65	91	54	64	20	19
Bacteria_unclassified	2940	2337	3736	2613	4904	2085	10294	2959	5742	4291
Bacteroidaceae [G-1] sp._oral_taxon_272	444	320	198	353	438	377	1094	1336	127	151
Bacteroidales [G-2]sp._oral_taxon_274	529	537	545	600	381	427	326	544	670	491
Bacteroidales_unclassified	260	1056	1038	1155	413	375	157	85	304	377
Bacteroides_unclassified	216	12	12	12	84	136	393	857	612	1135
Bacteroides heparinolyticus_oral_taxon_630	181	313	614	220	948	876	542	497	317	371
Bacteroides tectus_oral_taxon_787	0	0	0	0	77	105	627	1111	3	4
Bacteroides zoogloformans_oral_taxon_465	0	41	21	45	8	9	83	155	1	3
Bacteroidetes [G-3]	73	256	225	279	500	479	825	844	330	305
Bacteroidetes [G-3]sp._oral_taxon_280	86	93	234	76	148	165	28	28	106	73
Bacteroidetes [G-3]sp._oral_taxon_365	420	79	67	88	1295	945	165	118	95	101
Bacteroidetes [G-3]sp._oral_taxon_436	9	632	435	678	94	67	142	107	74	107
Bacteroidetes [G-3]sp._oral_taxon_503	77	32	25	31	79	112	29	36	60	84
Bacteroidetes [G-4]sp._oral_taxon_509	2	101	50	111	133	261	53	115	12	19
Bacteroidetes [G-5]sp._oral_taxon_505	191	288	194	288	211	213	54	29	141	120
Bacteroidetes [G-5]sp._oral_taxon_507	31	85	60	92	125	190	35	68	115	150
Bacteroidetes [G-5]sp._oral_taxon_511	283	109	54	45	56	80	75	148	149	137
Bacteroidetes_unclassified	2980	1836	1052	2002	4969	3808	5076	7391	5025	6579
Bergeyella_unclassified	58	18	9	12	12	27	19	37	67	68
Bergeyellasp._oral_taxon_907	46	18	19	20	5	4	7	9	13	18
Burkholderiaceae_unclassified	24	73	132	80	18	29	7	15	19	28
Burkholderiales_unclassified	15	122	107	134	8	13	2	2	30	25
Butyrivibriosp._oral_taxon_094	50	42	61	45	119	107	193	261	192	179
Campylobacter_unclassified	303	692	447	734	54	67	44	28	186	89
Campylobacter concisus_oral_taxon_575	40	16	13	18	10	13	1	2	26	26
Campylobacter rectus_oral_taxon_748	366	415	776	462	371	261	216	163	574	428
Campylobacter sp._oral_taxon_044	25	54	5	7	78	145	2	3	76	115
Capnocytophaga_unclassified	1240	1365	1158	1329	340	384	293	336	1392	1312
Capnocytophaga granulosa_oral_taxon_325	140	84	100	92	39	60	57	90	167	124
Capnocytophagasp._oral_taxon_326	29	109	94	115	0	1	0	0	29	51
Cardiobacterium_unclassified	53	81	78	88	10	15	11	23	71	82
Cardiobacterium hominis_oral_taxon_633	80	141	47	77	14	29	1	2	47	32
Cardiobacterium valvulum_oral_taxon_540	34	176	99	197	8	13	8	17	7	9
Catonella morbi_oral_taxon_165	826	632	1072	660	761	488	384	306	746	572
Catonella sp._oral_taxon_451	18	18	32	19	60	45	20	22	27	21
Chloroflexi [G-1]sp._oral_taxon_439	888	445	757	483	2670	2440	2018	1533	1865	1416
Clostridiales [F-1][G-1]sp._oral_taxon_093	82	127	83	81	107	63	50	56	35	30

Clostridiales [F-1][G-2]sp.oral_taxon_402	56	1561	1330	1636	570	390	363	212	75	98
Clostridiales [F-2][G-1]sp.oral_taxon_075	313	123	84	92	456	464	127	108	624	840
Clostridiales [F-2][G-2]sp.oral_taxon_085	91	237	159	262	208	191	527	982	313	509
Clostridiales [F-2][G-3]sp.oral_taxon_381	38	20	17	21	165	94	608	491	23	50
Clostridiales [F-2]_unclassified	10	31	15	34	129	187	11	19	6	12
Clostridiales_unclassified	251	1121	923	1204	1256	968	585	372	227	162
Comomonadaceae_unclassified	1	216	106	236	4	9	18	40	51	120
Coriobacteriaceae_unclassified	11	5	4	5	13	8	24	24	42	65
Corynebacterium durum_oral_taxon_595										
Corynebacterium matruchotii_oral_taxon_666	575	151	256	153	328	560	154	254	672	763
Desulfobulbus sp.oral_taxon_041	526	494	349	381	376	226	487	631	881	809
Desulfomicrobium orale_oral_taxon_703	167	934	876	1036	822	995	260	347	470	620
Desulfovibrio fairfieldensis_oral_taxon_605	4	490	282	534	14	23	88	167	291	613
Desulfovibrio sp.oral_taxon_040	10	1	0	0	5	5	49	79	28	39
Dialister invisus_oral_taxon_118	545	444	400	470	715	512	135	72	118	158
Eikenella_unclassified										
Eikenella corrodens_oral_taxon_577	40	253	218	267	11	11	11	9	55	73
Erysipelotrichaceae_unclassified	10	7	6	7	102	207	8	13	3	5
Escherichiacoli_oral_taxon_574	18	27	58	25	157	204	35	13	122	126
Eubacterium [XI][G-1]infirmum_oral_taxon_105	726	819	877	887	290	256	285	207	240	240
Eubacterium [XI][G-3]brachy_oral_taxon_557	148	410	496	408	187	186	17	14	99	130
Eubacterium [XI][G-6]	22	34	27	35	64	53	40	43	40	52
Eubacterium [XI][G-6]minutum_oral_taxon_673	21	28	2	1	5	6	49	94	71	98
Filifactor alocis_oral_taxon_539	275	626	1243	649	1410	682	954	737	827	815
Firmicutes_unclassified	76	204	166	219	215	145	311	277	217	110
Fretibacterium_unclassified	919	1839	390	309	215	265	41	59	138	167
Fretibacterium fastidiosum_oral_taxon_363	1392	2159	3192	2361	2303	1578	1884	1725	2289	1631
Fretibacterium sp.oral_taxon_361	2625	7001	12085	6578	8737	8435	5774	6721	12939	11595
Fusobacterium_unclassified	5597	9275	19366	10269	6143	5586	3666	2883	9737	8669
Fusobacterium nucleatum ss vincentii_oral_taxon_200	159	64	94	68	29	56	29	33	77	138
Fusobacterium periodonticum_oral_taxon_201	17	9	1	2	63	141	1	2	107	282
Fusobacterium sp.oral_taxon_203	2442	89	50	98	1	1	76	163	30	36
Gemella morbillorum_oral_taxon_046	514	1926	1255	2144	137	198	291	457	800	1347
Haemophilus_unclassified	66	85	63	95	6	11	94	188	29	27
Haemophilus sp.oral_taxon_035	136	20	16	22	6	6	5	5	182	222
Helicobacter pylori_oral_taxon_812	61	142	10	13	45	48	26	39	15	21
Johnsonella ignava_oral_taxon_635	164	723	798	797	50	79	10	15	131	119
Johnsonella sp.oral_taxon_166	167	74	18	13	33	19	4	5	84	95
Kingella sp.oral_taxon_459										
Lachnoanaerobaculum_unclassified	162	34	29	35	48	69	1	2	38	41
Lachnoanaerobaculumsp.oral_taxon_083	66	90	112	100	246	163	535	1014	302	307
Lachnoanaerobaculumsp.oral_taxon_496	29	25	3	3	51	60	29	53	73	49
Lachnoanaerobaculum umeaense_oral_taxon_107	18	134	91	150	52	57	36	25	2	2
Lachnospiraceae [G-2]_unclassified	43	16	13	17	1	1	1	2	26	30
Lachnospiraceae [G-2]sp.oral_taxon_088	73	135	207	147	50	59	24	33	155	124
Lachnospiraceae [G-2]sp.oral_taxon_096	417	1	1	1	7	9	29	33	70	126
Lachnospiraceae [G-3]sp.oral_taxon_100	453	864	630	948	357	394	226	255	638	604
Lachnospiraceae [G-5]sp.oral_taxon_080	13	52	43	57	19	16	17	15	20	15
Lachnospiraceae [G-6]sp.oral_taxon_090	18	41	31	43	23	29	31	34	18	24
Lachnospiraceae [G-8]sp.oral_taxon_500	114	475	501	515	332	144	225	229	319	279
Lachnospiraceae [XIVa]_unclassified	87	121	183	135	240	130	197	183	197	136
Lactobacillales_unclassified	63	21	5	2	4	3	3	3	64	77
Lactobacillus	53	1	0	0	3	6	1	1	121	318
Lactobacillus [XVII] catenaformis_oral_taxon_569	6	46	33	50	52	64	48	63	12	12
Lactobacillus gasseri_oral_taxon_615	0	1	1	1	0	0	1	1	159	418
Lactobacillus salivarius_oral_taxon_756	302	1	1	1	4	9	0	1	1331	3514
Lactobacillus sp.oral_taxon_052	22	0	0	0	0	0	0	0	95	251

Lactobacillus vaginalis_oral_taxon_051	214	0	0	0	0	0	0	0	0	0
Leptotrichia_unclassified	3715	754	1053	652	1339	1580	1327	972	4107	2657
Leptotrichia goodfellowii_oral_taxon_845	267	562	193	170	1	3	0	1	242	443
Leptotrichia hongkongensis_oral_taxon_213	1486	251	68	70	310	425	14	10	247	407
Leptotrichia sp._oral_taxon_212	93	454	418	505	3	4	17	30	523	878
Leptotrichia sp._oral_taxon_223	206	90	71	96	80	57	430	578	216	470
Leptotrichia sp._oral_taxon_225	541	203	178	222	96	180	296	525	279	436
Leptotrichia sp._oral_taxon_392	300	311	171	265	70	124	88	122	153	189
Leptotrichia sp._oral_taxon_498	1407	3	1	1	7	15	89	180	50	80
Leptotrichia sp._oral_taxon_847	156	96	2	4	2	3	16	28	70	153
Leptotrichiaceae_unclassified										
Megasphaera										
Megasphaera micronuciformis_oral_taxon_122	2854	111	97	116	28	30	441	690	213	539
Mitsuokella sp._oral_taxon_131	1584	0	0	0	0	1	0	0	31	81
Mitsuokella sp._oral_taxon_521	3	6	3	7	81	179	20	45	31	42
Mogibacterium timidum_oral_taxon_042	32	32	21	16	52	51	20	17	16	14
Mogibacterium vescum_oral_taxon_008	37	222	156	239	71	70	27	14	25	34
Mollicutes_[G-1] sp._oral_taxon_504	36	45	59	43	82	61	164	272	217	255
Mollicutes_[G-2] sp._oral_taxon_906	90	125	98	138	209	94	84	93	130	98
Moraxella catarrhalis_oral_taxon_833	197	69	45	77	9	15	32	68	36	43
Moryella sp._oral_taxon_097	53	431	269	467	66	56	191	177	73	127
Moryella sp._oral_taxon_373	59	93	93	103	355	405	166	137	105	81
Mycoplasma	92	116	67	126	25	44	4	4	42	53
Neisseria_unclassified	38	122	65	129	1	3	3	5	131	299
Neisseriaceae_unclassified	79	20	20	23	2	2	10	13	42	48
Neisseria oralis_oral_taxon_014	98	101	59	112	52	89	23	24	73	71
Olsenella sp._oral_taxon_807										
Oribacterium	44	238	167	264	291	317	40	25	30	24
Oribacterium sp._oral_taxon_078	87	68	15	23	6	6	21	25	20	24
Oribacterium sp._oral_taxon_102	15	214	171	226	79	72	104	133	12	13
Parvimonas_unclassified	17	2218	1394	2409	1	2	3	2	13	32
Parvimonas micra_oral_taxon_111	140	1279	1382	1299	394	384	293	156	93	109
Pasteurellaceae_unclassified	625	708	463	748	76	100	208	300	835	930
Peptococcus sp._oral_taxon_167	75	536	753	512	310	328	120	108	167	160
Peptostreptococcaceae_[XI][G-1]sp._oral_taxon_383	105	98	47	42	117	51	176	174	185	146
Peptostreptococcaceae_[XI][G-2]sp._oral_taxon_091	60	52	96	57	92	70	31	33	34	21
Peptostreptococcaceae_[XI][G-4]	102	539	651	567	355	334	233	195	356	364
Peptostreptococcaceae_[XI][G-5]sp._oral_taxon_493	382	86	113	68	247	126	85	57	150	187
Peptostreptococcaceae_[XI][G-7]sp._oral_taxon_081	217	83	108	91	46	47	48	73	155	329
Peptostreptococcaceae_[XI]_unclassified	586	288	545	321	733	359	569	468	1107	1057
Peptostreptococcaceae_[XIII][G-1]sp._oral_taxon_113	147	205	188	213	718	409	431	562	400	402
Peptostreptococcaceae_[XIII][G-2]sp._oral_taxon_790	92	282	226	308	215	90	184	163	458	356
Peptostreptococcaceae_[XIII]_unclassified	388	1485	1462	1650	1090	415	641	722	965	802
Peptostreptococcus stomatis_oral_taxon_112	184	560	669	600	542	558	312	412	254	255
Porphyromonadaceae_unclassified	46	11123	8380	11833	8416	7525	1402	1931	2283	2861
Porphyromonas_unclassified	24	9	3	4	3	4	1	1	69	163
Porphyromonas catoniae_oral_taxon_283										
Porphyromonas endodontalis_oral_taxon_273	550	1626	2417	1509	2140	1416	649	681	1027	665
Porphyromonas gingivalis_oral_taxon_619	2197	4798	7745	5364	3198	2397	2375	2453	2926	2489
Porphyromonas sp._oral_taxon_279	1879	2486	1583	2748	440	541	383	510	2471	4766
Prevotella_unclassified	4940	1987	1919	2012	3098	3278	2029	1478	3263	3538
Prevotella baroniae_oral_taxon_553	467	1682	1384	1875	580	462	236	278	48	58
Prevotella buccae_oral_taxon_560	319	780	472	872	599	720	669	405	169	150
Prevotellaceae_unclassified	125	34	7	8	34	33	36	27	26	25
Prevotella dentalis_oral_taxon_583	227	157	142	168	543	324	312	287	323	202
Prevotella denticola_oral_taxon_291	5862	54	30	59	31	63	221	372	216	486

Prevotella enoeca_oral_taxon_600	1943	2875	2296	3201	740	983	154	88	864	845
Prevotella fusca_oral_taxon_782	314	1134	1589	1047	748	547	2879	2266	1054	1259
Prevotella intermedia_oral_taxon_643	1140	1536	1109	1008	2941	3750	265	280	1151	1232
Prevotella maculosa_oral_taxon_289	471	121	3	3	99	196	40	44	48	62
Prevotella marshii_oral_taxon_665	540	229	34	73	120	155	9	6	105	136
Prevotella melaninogenica_oral_taxon_469	22	1	1	1	13	29	37	72	101	154
Prevotella micans_oral_taxon_378	265	21	10	21	131	235	9	15	111	110
Prevotella nigrescens_oral_taxon_693	379	140	71	153	14	32	12	27	12	15
Prevotella oralis_oral_taxon_705	543	446	85	174	74	154	53	64	27	50
Prevotella oris_oral_taxon_311	1713	761	66	116	545	730	173	150	272	328
Prevotella oulorum_oral_taxon_288	668	40	3	4	1	3	14	29	50	121
Prevotella saccharolytica_oral_taxon_781	159	63	38	21	39	78	9	15	126	118
Prevotella sp._oral_taxon_299	38	8	13	9	4	5	2	3	55	53
Prevotella sp._oral_taxon_300	648	27	20	29	6	8	29	51	85	157
Prevotella sp._oral_taxon_304	1447	747	1550	829	1863	2011	772	625	816	495
Prevotella sp._oral_taxon_313	414	7970	4541	8755	593	697	1505	1518	633	1372
Prevotella sp._oral_taxon_315	336	30	26	30	408	453	33	27	184	204
Prevotella sp._oral_taxon_317	941	278	303	208	217	306	232	211	616	619
Prevotella sp._oral_taxon_376	179	105	30	44	6	10	192	261	31	50
Prevotella sp._oral_taxon_443	164	539	454	566	870	456	607	326	974	1027
Prevotella sp._oral_taxon_472										
Prevotella sp._oral_taxon_515	0	1	1	1	96	215	35	53	19	34
Prevotella sp._oral_taxon_526	4042	5074	4748	5264	6460	4069	1790	1355	2835	3471
Prevotella sp._oral_taxon_820	378	725	932	714	1298	1328	855	469	674	579
Prevotellaceae_unclassified										
Proteobacteria_unclassified	26	14	10	13	183	313	13	12	89	168
Pyramidobacter piscicolens_oral_taxon_357	659	973	942	1056	1080	869	2646	1544	593	866
Rothia_unclassified										
Scardovia wiggisiae_oral_taxon_195	1082	612	0	1	0	0	1	3	34	68
Selenomonas_unclassified	8035	1387	2227	998	4423	4732	3395	4904	5097	3639
Selenomonas dianaie_oral_taxon_139	29	36	43	41	125	180	247	290	690	963
Selenomonas sp._oral_taxon_501	208	58	63	64	126	82	641	566	414	562
Selenomonas sputigena_oral_taxon_151	6927	1886	2453	2105	10130	8589	15202	17876	6816	4270
Shuttleworthia satelles_oral_taxon_095	573	123	74	135	9	13	37	31	58	60
Solobacterium moorei_oral_taxon_678	24	331	181	363	95	154	55	57	17	25
SR1_[G-1]										
SR1_[G-1]sp._oral_taxon_345	546	916	788	1014	1513	769	460	397	563	366
SR1_[G-1]sp._oral_taxon_874	28	29	9	9	11	20	2	3	38	38
SR1_[G-1]sp._oral_taxon_875	4	437	216	478	20	43	20	39	18	34
Streptococcus_unclassified	261	121	255	134	141	102	214	151	790	1024
Streptococcus anginosus_oral_taxon_543	675	230	113	252	0	0	0	0	3	4
Streptococcus downei_oral_taxon_594	62	10	8	11	0	0	459	543	591	1553
Streptococcus mutans_oral_taxon_686	104	34	18	37	0	0	7	8	24	58
Streptococcus parasanguinis_II_oral_taxon_411	722	2763	2882	2971	504	703	818	753	1756	1776
Streptococcus sp._oral_taxon_058	658	1060	1054	1144	211	262	623	438	1874	2395
Syntrophomonadaceae_[VIII][G-1]sp._oral_taxon_435	119	79	96	87	479	381	357	400	252	241
Tannerella	164	19	21	21	91	45	38	32	128	215
Tannerella forsythia_oral_taxon_613	321	470	763	497	456	315	264	253	482	416
Tannerella sp._oral_taxon_286	298	201	65	71	77	122	80	85	139	168
Tannerella sp._oral_taxon_916	0	10	8	11	144	212	113	252	265	452
TM7_[G-3]sp._oral_taxon_351	6	7	7	7	25	34	17	16	48	102
Treponema_unclassified	3345	2702	2923	1532	4234	1964	1916	1559	2887	1951
Treponema amylovorum_oral_taxon_541	93	221	16	37	0	0	0	0	8	19
Treponema denticola_oral_taxon_584	3662	2321	4972	2583	6768	2913	3086	2702	5673	3735
Treponema lecithinolyticum_oral_taxon_653	276	1180	947	1294	255	240	28	44	311	356
Treponema maltophilum_oral_taxon_664	504	617	1212	683	812	590	547	690	1327	1108
Treponema parvum_oral_taxon_724	101	71	104	77	164	39	134	110	195	122
Treponema pectinovorum_oral_taxon_725	56	45	44	50	255	362	27	27	54	47
Treponema socranskii_oral_taxon_769	995	566	296	464	476	275	725	1283	1190	1142
Treponema sp._oral_taxon_237	303	564	793	529	530	457	188	247	474	592
Treponema sp._oral_taxon_239	31	142	124	159	173	160	75	73	76	77

Treponema sp._oral_taxon_242	17	34	27	36	91	85	9	13	65	59
Treponema sp._oral_taxon_246	812	2306	1152	2297	621	639	116	142	856	1466
Treponema sp._oral_taxon_249	340	270	200	299	830	723	290	252	428	469
Treponema sp._oral_taxon_250	308	127	203	109	419	245	137	84	322	478
Treponema sp._oral_taxon_252										
Treponema sp._oral_taxon_254	76	132	88	138	82	84	77	41	53	66
Treponema sp._oral_taxon_255										
Treponema sp._oral_taxon_257	83	125	0	0	3	6	3	6	0	0
Treponema sp._oral_taxon_258	519	196	415	205	532	207	220	115	303	210
Treponema sp._oral_taxon_263	110	174	123	97	209	126	84	78	187	227
Treponema sp._oral_taxon_270	416	616	77	51	167	153	492	995	317	391
Treponema sp._oral_taxon_271	89	57	43	27	100	42	40	36	37	22
Treponema sp._oral_taxon_508	93	173	244	179	372	321	95	86	132	119
Veillonella_unclassified	3756	3905	4246	4210	801	962	3570	3455	2783	3278
Veillonellaceae_[G-1]_unclassified	353	1509	1327	1581	636	568	380	442	923	863
Veillonellaceae_[G-1]sp._oral_taxon_129	1749	439	85	165	23	23	152	182	323	632
Veillonellaceae_[G-1]sp._oral_taxon_145	241	218	191	228	723	447	503	295	514	862
Veillonellaceae_[G-1]sp._oral_taxon_155	2050	1843	177	378	851	1832	301	538	564	952
Veillonellaceae_unclassified	69	4	3	4	2	1	44	97	4	5
Veillonella dispar_oral_taxon_160	118	6436	3192	7046	18	25	185	347	371	546
Veillonella parvula_oral_taxon_161	6098	8756	8301	9527	2189	3793	6608	6503	12214	20234
Veillonella sp._oral_taxon_780	30	12	7	10	2	4	5	5	46	47

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