

Table S1 Operational taxonomic units (OTUs) over-represented in mucosa after adjusting for multiple comparisons ($P < 0.0022$)

OTU name	OTU taxonomic assignment	Mean (saliva)	Variance (saliva)	SE (saliva)	Mean (mucosa)	Variance (mucosa)	SE (mucosa)	P-value
20	Streptococcus mitis Oral Taxon 677	383.5	94020.3	153.3	2265.0	652644.0	305.3	0.00000
3	Haemophilus sp. Oral Taxon 035	104.0	25848.6	80.3	204.5	59620.3	92.2	0.00000
120	Gemella haemolysans Oral Taxon 626	36.0	1329.3	18.2	192.8	56825.8	90.0	0.00000
6	Haemophilus sp. Oral Taxon 036	19.0	800.6	14.1	159.8	35743.4	71.4	0.00000
31	Streptococcus peroris Oral Taxon 728	53.5	1211.6	17.4	105.7	9297.2	36.4	0.00000
40	Prevotella sp. Oral Taxon 473	13.5	225.6	7.5	100.2	25323.5	60.1	0.00000
33	Granulicatella elegans Oral Taxon 596	20.5	425.0	10.3	70.0	6926.0	31.4	0.00000
107	Streptococcus oralis Oral Taxon 707	4.2	61.5	3.9	10.7	295.9	6.5	0.00029
133	Streptococcus gordonii Oral Taxon 622	0.2	0.2	0.2	8.8	290.1	6.4	0.00000
82	Haemophilus aegyptius Oral Taxon 535	1.2	6.2	1.2	6.7	315.5	6.7	0.00001
168	Streptococcus sanguinis Oral Taxon 758	0.2	0.2	0.2	5.7	215.5	5.5	0.00000
112	Streptococcus cristatus Oral Taxon 578	0.2	0.2	0.2	2.7	51.5	2.7	0.00197
148	Streptococcus mitis Oral Taxon 677	0.0	0.0	0.0	2.7	26.2	1.9	0.00037

Data represent METASTATS output. SE, standard error.

Table S2 Operational taxonomic units (OTUs) over-represented in saliva after adjusting for multiple comparisons ($P < 0.0022$)

OTU name	OTU taxonomic assignment	Mean (saliva)	Variance (saliva)	SE (saliva)	Mean (mucosa)	Variance (mucosa)	SE (mucosa)	P-value
7	Neisseria flavescens Oral Taxon 610	755.0	114879.3	169.4	158.2	111181.9	126.0	0.00000
1	Haemophilus parainfluenzae Oral Taxon 718	510.5	4729.6	34.3	349.4	92701.9	115.0	0.00000
36	Porphyromonas sp. Oral Taxon 279	426.2	232854.9	241.2	59.1	6933.1	31.4	0.00000
260	Prevotella melaninogenica Oral Taxon 469	165.2	37132.9	96.3	4.1	30.4	2.0	0.00000

132	Fusobacterium periodonticum Oral Taxon 201	159.5	1311.0	18.1	22.4	648.9	9.6	0.00000
39	Unclassified Prevotella sp.	127.2	42238.9	102.7	8.7	249.2	5.9	0.00000
32	Granulicatella adiacens [paradiacens] Oral Taxon 534	124.2	304.9	8.7	53.1	5375.4	27.7	0.00000
109	Veillonella parvula Oral Taxon 161	121.2	1126.9	16.7	48.0	4347.6	24.9	0.00000
110	Streptococcus sp. Oral Taxon 431	80.2	522.9	11.4	40.0	1956.0	16.7	0.00000
126	Rothia mucilaginoso Oral Taxon 681	76.5	2007.0	22.3	38.1	2780.8	19.9	0.00000
41	Prevotella sp. Oral Taxon 474	67.0	5640.0	37.5	6.7	181.5	5.0	0.00000
9	Neisseria sicca Oral Taxon 764	64.5	3659.6	30.2	28.4	1294.2	13.5	0.00000
114	Streptococcus sp. Oral Taxon 065	47.7	608.9	12.3	13.5	127.9	4.2	0.00000
34	Rothia sp. Oral Taxon 188	43.2	1909.5	21.8	25.2	1216.5	13.1	0.00000
5	Unclassified Aggregatibacter sp.	41.5	1772.3	21.0	11.0	252.6	6.0	0.00000
287	Prevotella pallens Oral Taxon 714	37.0	1026.0	16.0	0.4	0.6	0.2	0.00000
146	Streptococcus sp. Oral Taxon 061	29.0	216.6	7.3	12.2	220.5	5.6	0.00000
288	Prevotella sp. Oral Taxon 308	28.7	1175.5	17.1	0.0	0.0	0.0	0.00000
2	Aggregatibacter segnis Oral Taxon 762	28.0	171.3	6.5	8.0	67.0	3.0	0.00000
8	Lautropia mirabilis Oral Taxon 022	26.7	289.5	8.5	14.0	367.6	7.2	0.00000
13	Campylobacter concisus Oral Taxon 575	24.5	635.6	12.6	1.7	2.5	0.6	0.00000
338	Prevotella histicola Oral Taxon 298	24.2	768.9	13.8	0.0	0.0	0.0	0.00000
135	Porphyromonas sp. Oral Taxon 284	23.0	290.0	8.5	6.7	96.5	3.7	0.00000
121	Actinomyces sp. Oral Taxon 180	22.5	317.6	8.9	1.1	3.4	0.7	0.00000
447	TM7 [G-1] sp. Oral Taxon 352	21.5	869.6	14.7	1.5	8.2	1.0	0.00000
274	Prevotella tannerae Oral Taxon 466	20.2	1160.9	17.0	2.0	9.0	1.1	0.00000
42	Prevotella sp. Oral Taxon 299	19.5	159.0	6.3	2.4	5.2	0.8	0.00000
153	Oribacterium sinus Oral Taxon 457	17.5	123.0	5.5	2.1	8.4	1.1	0.00000
53	Neisseria flava Oral Taxon 609	17.2	354.9	9.4	8.1	134.4	4.3	0.00000
124	Gemella sanguinis Oral Taxon 757	17.2	100.2	5.0	5.5	40.9	2.4	0.00000
15	Neisseria elongata Oral Taxon 598	16.7	355.5	9.4	7.5	275.2	6.2	0.00001
151	Streptococcus parasanguinis II	16.5	95.0	4.8	5.5	84.2	3.4	0.00000

	Oral Taxon 411							
334	Prevotella salivae Oral Taxon 307	15.5	355.6	9.4	0.2	0.5	0.2	0.00000
139	Prevotella shahii Oral Taxon 795	15.0	248.6	7.8	4.8	165.1	4.8	0.00000
154	Oribacterium sp. Oral Taxon 108	12.2	68.2	4.1	0.4	1.2	0.4	0.00000
141	Leptotrichia sp. Oral Taxon 215	11.5	52.3	3.6	2.4	4.9	0.8	0.00000
326	Prevotella melaninogenica Oral Taxon 469	10.7	356.2	9.4	0.1	0.1	0.1	0.00000
336	Prevotella sp. Oral Taxon 302	10.0	246.0	7.8	0.4	0.6	0.2	0.00000
125	Corynebacterium durum Oral Taxon 595	9.7	86.9	4.6	4.0	26.0	1.9	0.00031
37	Capnocytophaga sp. Oral Taxon 329	9.5	268.3	8.1	3.8	87.1	3.5	0.00039
18	Aggregatibacter paraphrophilus Oral Taxon 720	9.0	238.6	7.7	1.0	2.0	0.5	0.00000
305	Capnocytophaga sputigena Oral Taxon 775	8.2	98.2	4.9	3.4	60.6	2.9	0.00129
275	Leptotrichia sp. Oral Taxon 417	8.0	148.6	6.0	3.2	45.5	2.5	0.00110
14	Campylobacter showae Oral Taxon 763	7.7	19.5	2.2	2.2	22.9	1.8	0.00004
184	Solobacterium moorei Oral Taxon 678	6.7	15.5	1.9	0.2	0.2	0.1	0.00000
190	Megasphaera micronuciformis Oral Taxon 122	5.7	21.5	2.3	0.1	0.1	0.1	0.00000
195	Unclassified Actinomyces sp.	5.5	107.0	5.1	0.8	5.1	0.8	0.00000
78	Unclassified Haemophilus sp.	5.2	110.2	5.2	0.1	0.1	0.1	0.00000
409	Eubacterium [11][G-1] sulci Oral Taxon 467	5.0	13.3	1.8	0.0	0.0	0.0	0.00000
262	Clostridiales [F-2][G-1] sp. Oral Taxon 075	4.7	23.5	2.4	0.4	0.6	0.2	0.00000
19	Campylobacter sp. Oral Taxon 044	4.5	51.0	3.5	0.2	0.5	0.2	0.00000
446	TM7 [G-3] sp. Oral Taxon 351	4.0	24.0	2.4	1.0	5.0	0.8	0.00167
375	Leptotrichia sp. Oral Taxon 221	3.7	56.2	3.7	0.4	1.2	0.4	0.00006
263	Clostridiales [F-2][G-2] sp. Oral Taxon 085	3.5	22.3	2.3	0.1	0.1	0.1	0.00000
98	Unclassified Neisseriaceae	3.2	42.2	3.2	0.0	0.0	0.0	0.00000
44	Atopobium parvulum Oral Taxon 723	3.0	18.0	2.1	0.2	0.5	0.2	0.00021
417	Mogibacterium diversum Oral Taxon 593	3.0	12.0	1.7	0.0	0.0	0.0	0.00000
279	Unclassified SR1 [G-1] sp.	2.5	19.0	2.1	0.1	0.1	0.1	0.00029
286	Prevotella oris Oral Taxon 311	2.5	9.6	1.5	0.2	0.5	0.2	0.00119

337	Unclassified Bacteroidetes	2.5	9.0	1.5	0.0	0.0	0.0	0.00004
350	Prevotella sp. Oral Taxon 299	2.2	20.2	2.2	0.0	0.0	0.0	0.00011
276	Lachnospiraceae [G-1] sp. Oral Taxon 107	2.0	3.3	0.9	0.1	0.1	0.1	0.00186
342	Prevotella sp. Oral Taxon 306	2.0	11.3	1.6	0.0	0.0	0.0	0.00030
328	Prevotella sp. Oral Taxon 305	1.7	12.2	1.7	0.0	0.0	0.0	0.00084
395	Atopobium parvulum Oral Taxon 723	1.7	1.5	0.6	0.0	0.0	0.0	0.00084
371	Fusobacterium nucleatum ss vincentii Oral Taxon 200	1.5	3.6	0.9	0.0	0.0	0.0	0.00231

Data represent METASTATS output.

Table S3 Genera over-represented in mucosa after adjusting for multiple comparisons

($P < 0.0128$)

Taxonomy	Mean (saliva)	Variance (saliva)	SE (saliva)	Mean (mucosa)	Variance (mucosa)	SE (mucosa)	P-value
<i>Streptococcus</i>	656.2	92214.9	151.8	2533.7	710442.5	318.5	0.00000
<i>Gemella</i>	41.7	727.5	13.4	210.4	66432.6	97.4	0.00000

Data represent METASTATS output. SE, standard error.

Table S4 Genera over-represented in saliva after adjusting for multiple comparisons

($P < 0.0128$)

Taxonomy	Mean (saliva)	Variance (saliva)	SE (saliva)	Mean (mucosa)	Variance (mucosa)	SE (mucosa)	P-value
<i>Haemophilus</i>	404.0	25360.6	79.6	323.5	95805.2	116.9	0.00000
<i>Neisseria</i>	840.7	92084.2	151.7	206.4	164046.6	153.0	0.00000
<i>Porphyromonas</i>	473.5	276195.0	262.7	70.7	9500.9	36.8	0.00000
<i>Fusobacterium</i>	178.2	2546.2	25.2	27.2	1085.5	12.4	0.00000
<i>Granulicatella</i>	147.0	1202.6	17.3	124.1	7134.1	31.9	0.00146
<i>Rothia</i>	129.0	3414.0	29.2	60.5	4959.2	26.6	0.00000
<i>Actinobacillus</i>	40.0	2214.0	23.5	8.9	122.1	4.1	0.00000
<i>Veillonella</i>	128.7	1172.9	17.1	56.0	7206.3	32.0	0.00000
<i>Prevotella</i>	332.7	100501.5	158.5	21.1	529.8	8.6	0.00000

<i>Actinomyces</i>	41.0	1048.6	16.1	6.0	56.6	2.8	0.00000
<i>Campylobacter</i>	35.2	444.9	10.5	3.5	32.9	2.1	0.00000
<i>Abiotrophia</i>	3.2	16.2	2.0	0.8	2.1	0.5	0.00675
<i>Capnocytophaga</i>	28.0	1454.0	19.0	9.8	452.8	8.0	0.00000
<i>Corynebacterium</i>	9.5	33.6	2.9	2.8	39.4	2.3	0.00000
<i>Oribacterium</i>	27.2	379.5	9.7	2.8	25.4	1.9	0.00000
<i>Aggregatibacter</i>	14.7	537.5	11.5	1.2	3.9	0.7	0.00000
<i>Leptotrichia</i>	18.7	312.9	8.8	6.4	69.6	3.1	0.00000
<i>Eubacterium</i>	5.7	22.9	2.3	0.2	0.5	0.2	0.00000
<i>Atopobium</i>	5.7	26.2	2.5	0.2	0.5	0.2	0.00000
<i>Solobacterium</i>	3.7	6.9	1.3	0.5	2.2	0.5	0.00019
<i>Megasphaera</i>	2.5	3.6	0.9	0	0	0	0.00004
<i>Treponema</i>	6.2	84.9	4.6	1.8	13.1	1.3	0.00028
<i>Moryella</i>	3.0	12.0	1.7	0.4	0.6	0.2	0.00072
<i>Mogibacterium</i>	4.5	21.6	2.3	0	0	0	0.00000
<i>Peptostreptococcus</i>	1.7	8.2	1.4	0.1	0.1	0.1	0.00458
<i>Selenomonas</i>	2	0.6	0.4	0.2	0.5	0.3	0.00631

Data represent METASTATS output. SE, standard error.