

Metagenome-assembled genomes from irradiated human dental plaque

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ABSTRACT We provide 309 quality-controlled bacterial metagenome-assembled genomes recovered from supragingival plaque metagenomes. Samples were collected from head and neck cancer patients following radiotherapy, so the recovered genomes can be useful to investigate the effects of oral cavity irradiation on oral microbiome members.

KEYWORDS oral microbiome, head and neck cancer, radiotherapy, metagenomics

Radiotherapy is a standard therapeutic approach for head and neck cancer (1), but this comes at the cost of treatment-related oral toxicities (2). Radiation-related caries is an aggressive painless form of dental caries that affects almost a third of irradiated head and neck cancer patients (3). Although its pathophysiology remains elusive, paralleling conventional caries (4), microbial participation in its onset and progression is likely. In a previous study (5), we collected and metagenomically sequenced supragingival plaque samples ($n = 24$) from head and neck cancer patients treated with radiotherapy (some of whom developed radiation-related caries). Following DNA extraction of plaque samples as previously described (6), metagenomic library preparation was performed with the Nextera-XT DNA Library Prep Kit (Illumina) and sequenced on the Illumina NovaSeq 6000 (2×150 bp), generating 734 M paired-end metagenomic reads. Following preprocessing with kneaddata version 0.7.7-alpha (<https://github.com/biobakery/kneaddata>) for the removal of low-quality and contaminating (human or phiX174) reads, resulting metagenomes had an average depth of 2.5 Gbp (range: 0.2–12.6 Gbp).

Considering that little is known about the potential genetic alterations induced and selected by radiotherapy on human microbiome members, we reconstructed microbial genomes from irradiated plaque metagenomes. Metagenomic assembly was performed with MEGAHIT version 1.1.1 (7), and after filtering of contigs shorter than 1,000 bp, binning was performed with MetaBAT2 version 2.12.1 (8) using the coverage information computed by mapping reads against contigs with BowTie2 version 2.2.9 (9). The resulting 659 metagenome-assembled genomes (MAGs) were quality checked with CheckM version 1.1.3 (using the *lineage_wf* option) (10), and MAGs with either completeness $\leq 50\%$ or contamination $> 5\%$ were tagged as low quality ($n = 350$). Considering the ubiquity of fungi such as *Candida albicans* in the human oral cavity (11), we evaluated the possibility that eukaryotic MAGs were among the low-quality set by running BUSCO version 5.6.1 (12). Since no eukaryotic MAGs were retrieved, all low-quality MAGs were discarded. The remaining 309 at least medium-quality prokaryotic MAGs are available through this Announcement.

Taxonomic classification of these MAGs according to GTDB-Tk version 2.3.2 (r207 database) (13) and PhyloPhlAn version 3.1 (vJun23 database) (14) is provided in Table 1, as well as genome characteristics (size and GC content), assembly metrics (number

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TABLE 1 Metagenome-assembled genomes characteristics^a

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
s__Limosilactobacillus															
450__bin.1	fermentum	NA	587377	53.91	22	37645	28.5	50.00	0.00	602	4	0	JBHRRP0000000000	SRR28645827	Yes
450__bin.4	s__Streptococcus halitosis	NA	1808858	41.44	50	48103	47.2	99.42	0.68	1757	31	0	JBHRR0000000000	SRR28645827	Yes
s__Lactocaseibacillus															
450__bin.7	s__Lactocaseibacillus rhamnosus	(SGB7144)2865742	46.70	331	12654	14.9	98.46	2.21	2627	42	2	JBHRRN0000000000	SRR28645827	Yes	
456__bin.2	s__Streptococcus sp900766505	NA	1349987	42.62	487	2874	10.7	68.59	2.99	1266	13	0	JBHRRM0000000000	SRR28645826	Yes
s__Rothia SGB49305															
460__bin.2	s__Rothia dentocariosa	(SGB49305_group)	2135504	54.12	349	7585	9.9	83.53	0.00	1920	45	2	JBHRRL0000000000	SRR28645815	Yes
s__Actinomyces oris															
460__bin.6	s__Actinomyces oris_C	(SGB15881)	3030277	68.50	284	17610	43.4	97.30	0.91	2514	48	3	JBHRRK0000000000	SRR28645815	Yes
s__Actinobaculum sp															
oral taxon 183															
460__bin.8	s__Peptidiphaga sp000466165	(SGB15892)	2240854	68.18	111	30916	48.9	98.33	1.81	1876	45	1	JBHRRJ0000000000	SRR28645815	Yes
s__GGB96320															
SGB123478															
473__bin.12	g__UBA9732	(SGB123478)	1350750	46.08	298	5358	9.9	73.30	0.00	1226	32	1	JBHRRD0000000000	SRR28645810	Yes
s__Prevotella denticola															
473__bin.14	s__Prevotella denticola	(SGB1540)	2342664	51.68	279	11021	50.0	87.79	3.86	1829	33	0	JBHRRH0000000000	SRR28645810	Yes
s__Megasphaera															
s__Anaeroglobus micronuciformis															
473__bin.15	mis	(SGB5868)	1642084	45.62	233	9037	31.0	94.78	3.71	1557	37	1	JBHRRG0000000000	SRR28645810	Yes
473__bin.16	s__Veillonella sp905214495	NA	1324908	39.33	121	16324	172.2	57.40	0.86	1219	22	0	JBHRRF0000000000	SRR28645810	Yes
s__Schaalia meyeri															
473__bin.17	s__Pauljensenia sp000185285	(SGB17151)	2262155	66.53	183	16825	50.3	93.68	2.52	2063	47	1	JBHRRD0000000000	SRR28645810	Yes
473__bin.19	s__Streptococcus gordonii	NA	1569046	40.63	129	20137	44.7	56.83	0.00	1478	7	0	JBHRRD0000000000	SRR28645810	Yes
s__Lancefieldella															
473__bin.2	s__Lancefieldella parvula	(SGB964)	1061864	45.43	220	5404	10.8	70.69	1.72	940	24	1	JBHRRCC0000000000	SRR28645810	Yes
s__Mitsuokella sp oral															
473__bin.20	s__Mitsuokella sp000469545	taxon 131 (SGB5901)	1820261	58.10	78	38142	27.5	70.33	0.55	1690	34	1	JBHRRRB0000000000	SRR28645810	Yes
s__Prevotella oulorum															
473__bin.25	s__Prevotella oulorum	(SGB1520)	2140285	47.62	150	18810	23.5	91.84	0.51	1771	43	1	JBHRRAA0000000000	SRR28645810	Yes
s__Porphyromonas															
endodontalis															
473__bin.26	s__Porphyromonas endodontalis	(SGB2016)	1855064	47.74	61	47572	18.6	97.50	0.47	1521	39	1	JBHRQZ0000000000	SRR28645810	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
473__bin.27	s__Prevotella multisaccharivorax (SGB1702)	s__Prevotella multisaccharivorax (SGB1702)	2903091	48.87	282	14276	20.1	96.59	3.05	2463	34	3	JBHRQY0000000000	SRR28645810	Yes
473__bin.28	s__Protonibacterium acidifaciens (SGB15903)	s__Protonibacterium acidifaciens (SGB15903)	2539063	71.83	270	13940	30.2	93.97	1.75	2213	40	0	JBHRQX0000000000	SRR28645810	Yes
473__bin.3	s__Parascardovia denticolens (SGB17291)	s__Parascardovia denticolens (SGB17291)	1590106	59.02	69	40065	36.8	92.34	0.23	1265	38	0	JBHRQW0000000000	SRR28645810	Yes
473__bin.30	s__Metamycoplasma salivarium (SGB5934)	s__Metamycoplasma salivarium (SGB5934)	376272	27.71	125	3137	10.3	56.50	0.85	659	13	0	JBHRQV0000000000	SRR28645810	Yes
473__bin.33	s__Prevotella oris (SGB1525)	s__Prevotella oris (SGB1525)	2588732	44.03	303	12098	33.7	94.39	4.18	2136	50	3	JBHRQU0000000000	SRR28645810	Yes
473__bin.34	s__Campylobacter_A concisus_B NA	s__Campylobacter_A concisus_B NA	1425529	38.23	389	4125	8.9	82.00	1.05	1345	13	0	JBHRQT0000000000	SRR28645810	Yes
473__bin.36	g__Prevotella (SGB98242)	g__Prevotella (SGB98242)	1715255	49.05	401	4887	10.1	50.31	0.00	1464	17	0	JBHRQS0000000000	SRR28645810	Yes
473__bin.37	s__Prevotella conceptionensis NA	s__Prevotella conceptionensis NA	3247241	47.90	398	10825	25.0	93.18	0.65	2561	38	1	JBHRQR0000000000	SRR28645810	Yes
473__bin.38	s__Selenomonas sp905373085 (SGB5896)	s__Selenomonas sp905373085 (SGB5896)	1586218	58.78	442	3962	9.9	69.03	1.37	1531	13	0	JBHRQQ0000000000	SRR28645810	Yes
473__bin.39	s__Granulicatella adiacens (SGB8249)	s__Granulicatella adiacens (SGB8249)	1602462	38.14	123	18506	20.4	85.69	0.94	1532	18	1	JBHRQP0000000000	SRR28645810	Yes
473__bin.4	s__Streptococcus mutans (SGB8000)	s__Streptococcus mutans (SGB8000)	2188099	36.68	150	29164	39.9	96.59	4.59	2092	33	1	JBHRQO0000000000	SRR28645810	Yes
473__bin.40	s__Pauljensenia sp000308055 (SGB17137_group)	s__Actinomyces sp ph3 (SGB17137_group)	1831759	55.98	96	26905	19.8	97.65	1.54	1608	41	0	JBHRQN0000000000	SRR28645810	Yes
473__bin.44	s__Rothia denticariosa (SGB49305_group)	s__Rothia denticariosa (SGB49305_group)	1567211	55.08	351	5224	16.4	55.29	1.82	1413	29	1	JBHRQM0000000000	SRR28645810	Yes
473__bin.49	s__Limosilactobacillus fermentum (SGB17106)	s__Limosilactobacillus fermentum (SGB17106)	1250885	53.52	314	4822	9.4	82.49	2.46	1192	19	1	JBHRQL0000000000	SRR28645810	Yes
473__bin.50	s__Leptotrichia wadei (SGB6054)	s__Leptotrichia wadei (SGB6054)	2013045	29.96	436	5918	25.9	94.32	4.92	1849	25	0	JBHRQK0000000000	SRR28645810	Yes
473__bin.51	s__Prevotella sp013333935 (SGB1566)	s__Prevotella sp013333935 (SGB1566)	1877843	48.99	453	4794	10.8	72.65	3.56	1589	18	0	JBHRQJ0000000000	SRR28645810	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
473__bin.54	s__Bifidobacterium dentium	s__Bifidobacterium dentium (SGB17234)	2113736	58.94	204	15079	13.1	92.69	1.44	1745	53	1	JBHRQ0000000000	SRR28645810	Yes
473__bin.7	s__Stomatobaculum longum	s__GGB3883 SGB5265 (SGB5265)	1515265	56.53	363	5030	8.2	84.87	0.95	1398	24	0	JBHRQ0000000000	SRR28645810	Yes
473__bin.8	s__Oribacterium sp	s__Oribacterium sp oral taxon 078 (SGB7282)	1273736	56.11	463	2907	6.8	56.77	0.00	1164	16	0	JBHRQ0000000000	SRR28645810	Yes
711__bin.1	g__Campylobacter_A	NA	1762359	46.51	382	5745	12.7	83.98	2.54	1713	17	0	JBHRQ0000000000	SRR28645809	No
711__bin.10	s__Prevotella salivae	s__Prevotella salivae (SGB1522)	2581805	41.66	539	5947	10.6	86.13	1.75	2019	37	0	JBHRQ0000000000	SRR28645809	No
711__bin.13	s__Kingella_A denitrificans	s__Kingella denitrificans (SGB9437)	1716423	55.44	209	10828	33.2	85.10	2.17	1771	34	0	JBHRQ0000000000	SRR28645809	No
711__bin.14	g__Nanogingivalis	s__GGB12785 SGB19827 (SGB19827_group)	584565	35.63	60	14838	25.8	62.03	0.14	597	30	2	JBHRQ0000000000	SRR28645809	No
711__bin.15	g__Cardiobacterium	s__Cardiobacterium SGB9419 (SGB9419)	2606411	59.53	274	13936	41.2	92.79	1.47	2474	41	0	JBHRQ0000000000	SRR28645809	No
711__bin.16	s__Veillonella parvula_A	s__Veillonella parvula (SGB6939)	1665443	39.32	351	5785	19.5	87.73	1.38	1452	21	1	JBHRQ0000000000	SRR28645809	No
711__bin.17	s__Porphyromonas pasteri	s__Porphyromonas bobii (SGB2043)	1691558	56.42	125	19926	52.1	77.33	0.79	1307	37	2	JBHRP0000000000	SRR28645809	No
711__bin.18	s__SDRW01 sp007845485	s__TM7 phylum-sp oral taxon 348 (SGB19880)	820119	38.37	38	28262	93.1	63.12	0.46	798	40	1	JBHRP0000000000	SRR28645809	No
711__bin.20	s__Centipeda artemidis	s__Selenomonas artemidis (SGB5878)	2235493	57.04	210	16509	161.3	97.85	3.51	2106	50	4	JBHRP0000000000	SRR28645809	No
711__bin.21	s__Rothia mucilaginosa	NA	1466596	60.15	418	3834	11.3	63.83	2.40	1234	22	0	JBHRP0000000000	SRR28645809	No
711__bin.22	g__Nanosyncoccus	s__GGB12761 SGB19791 (SGB19791)	681316	38.40	39	34952	22.2	76.86	0.00	635	44	2	JBHRP0000000000	SRR28645809	No
711__bin.27	s__F0058 sp000163695	s__Bacteroides oral taxon 274 (SGB1341)	1905154	43.67	201	12848	19.8	94.35	1.63	1695	38	1	JBHRP0000000000	SRR28645809	No
711__bin.3	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii (SGB17007)	2629682	57.40	245	15401	15.9	92.23	1.07	2499	42	3	JBHRP0000000000	SRR28645809	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
711__bin.31	s__Prevotella oralis	s__Prevotella oralis (SGB1528)	2424522	45.08	165	21223	18.2	91.83	0.99	1934	34	1	JBHRP5000000000	SRR28645809	No
711__bin.33	s__Capnocytophaga gingivalis	s__Capnocytophaga gingivalis (SGB2479)	1932709	41.00	358	6746	41.6	83.41	0.48	1717	30	0	JBHRP0000000000	SRR28645809	No
711__bin.37	s__HOT-345 sp003260355	s__SRT1 bacterium human oral taxon HOT 345 (SGB6893)	1075117	38.06	69	21240	59.5	70.64	3.37	1983	39	2	JBHRPQ0000000000	SRR28645809	No
711__bin.38	s__Centipeda sp001717585	NA	2010624	56.28	328	8335	36.7	88.63	1.11	1992	30	0	JBHRPP0000000000	SRR28645809	No
711__bin.4	g__JABCPE02	NA	1749591	36.93	368	6188	22.7	92.78	2.69	1636	21	1	JBHRPO0000000000	SRR28645809	No
711__bin.40	s__Arachnia propionica	s__Arachnia propionica (SGB15897)	3041050	66.44	504	8399	15.4	91.34	3.98	2862	50	1	JBHRPN0000000000	SRR28645809	No
711__bin.44	s__Capnocytophaga leadbetteri	NA	1717079	40.81	162	15065	79.5	62.49	0.95	1499	25	0	JBHRPW0000000000	SRR28645809	No
711__bin.5	g__Granulicatella	NA	1631586	34.31	449	4224	14.5	80.83	4.37	1433	11	1	JBHRPL0000000000	SRR28645809	No
711__bin.7	s__Abiotrophia defectiva	NA	1422118	46.88	344	4687	15.1	75.41	3.54	1255	12	2	JBHRPK0000000000	SRR28645809	No
714__bin.1	s__Lactacisabacillus rhamnosus	s__Lactacisabacillus rhamnosus (SGB7144)289823	46.75	425	9774	44.7	93.36	3.07	3.07	2649	37	2	JBHRP1000000000	SRR28645808	Yes
714__bin.10	s__Propionibacterium freudenreichii	s__Propionibacterium freudenreichii (SGB15904)	2156152	67.38	522	4870	9.6	88.32	3.92	2059	41	0	JBHRP1000000000	SRR28645808	Yes
714__bin.11	s__Veillonella parvula_A	s__Veillonella parvula (SGB6939)	1168342	40.04	377	3143	8.0	62.24	1.05	995	6	0	JBHRPH0000000000	SRR28645808	Yes
714__bin.17	s__Prevotella melaninogenica_B	NA	2535952	41.43	571	5278	11.1	84.78	2.54	1869	24	0	JBHRPC0000000000	SRR28645808	Yes
714__bin.19	s__Limosilactobacillus oris	s__Limosilactobacillus oris (SGB7093)	1695252	50.93	177	13722	21.4	89.30	1.66	1555	31	0	JBHRPF0000000000	SRR28645808	Yes
714__bin.2	s__Porphyromonas asacharolytica	s__Porphyromonas asacharolytica (SGB1981)	1009011	54.07	341	3002	6.8	62.85	1.72	801	15	0	JBHRPE0000000000	SRR28645808	Yes
714__bin.20	g__Lactobacillus	NA	1045608	48.76	39	38535	18.4	89.17	0.92	1039	20	0	JBHRPD0000000000	SRR28645808	Yes
714__bin.23	s__Lactobacillus crispatus	NA	896321	36.23	20	89675	197.8	53.45	0.00	862	7	0	JBHRPC0000000000	SRR28645808	Yes
714__bin.24	s__Parascardovia denticolens	s__Parascardovia denticolens (SGB17291)	1222404	59.77	329	4066	8.7	73.71	1.75	1082	20	0	JBHRPB0000000000	SRR28645808	Yes
714__bin.26	s__Olsenella_F profusa_A	s__Olsenella profusa (SGB14387)	2428193	64.12	193	19196	15.9	98.58	1.61	2253	49	1	JBHRPA0000000000	SRR28645808	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
s__Limosilactobacillus															
714__bin.4	s__Limosilactobacillus fermentum (SGB7106)	1588913	53.69	253	9058	15.6	94.91	2.68	1532	22	0		JBHROZ0000000000	SRR28645808	Yes
714__bin.5	s__Limosilactobacillus vaginalis (SGB7098)	1801075	40.79	121	28327	59.2	97.55	3.40	1792	28	2		JBHROV0000000000	SRR28645808	Yes
714__bin.6	s__Scardovia wiggsiae (SGB15494)	1508835	52.88	41	52232	41.7	92.25	0.15	1236	45	0		JBHROX0000000000	SRR28645808	Yes
714__bin.7	s__Bifidobacterium dentium (SGB17234)	2385426	58.88	201	15895	12.9	98.24	2.58	2024	48	2		JBHROW0000000000	SRR28645808	Yes
714__bin.9	s__Prevotella oris (SGB1525)	2729643	43.97	236	16533	16.6	97.23	1.10	2246	41	2		JBHROV0000000000	SRR28645808	Yes
722__bin.3	s__Neisseria subflava (SGB9450_group)	1377536	50.19	452	3301	6.6	65.45	0.50	1460	23	1		JBHROU0000000000	SRR28645807	Yes
722__bin.4	s__Pauljensenia sp000185285 (SGB17151)	1401605	66.28	502	2858	6.6	57.84	1.15	1344	24	0		JBHROT0000000000	SRR28645807	Yes
722__bin.5	s__Veillonella parvula (SGB6939)	1672883	39.47	394	4974	14.5	90.42	1.49	1485	15	1		JBHROS0000000000	SRR28645807	Yes
726__bin.10	s__Veillonella parvula_A (SGB6939)	1789436	39.30	456	4340	16.5	87.11	4.76	1548	20	0		JBHROK0000000000	SRR28645806	Yes
726__bin.12	s__Propionibacterium acidifaciens (SGB15903)	2375781	71.54	489	5877	12.6	86.34	1.29	2063	43	0		JBHROQ0000000000	SRR28645806	Yes
726__bin.13	s__Atopobium sp oral taxon 416 (SGB94363)	2015734	55.38	206	14413	30.9	93.55	0.81	1903	41	1		JBHROP0000000000	SRR28645806	Yes
726__bin.4	s__Prevotella oris (SGB1525)	2245065	44.36	727	3308	8.6	74.14	4.47	1950	28	0		JBHROO0000000000	SRR28645806	Yes
726__bin.6	g__Eubacterium_T NA	1597599	50.34	527	3163	6.3	68.49	0.71	1474	18	0		JBHRON0000000000	SRR28645806	Yes
726__bin.8	s__Prevotella denticola (SGB1540)	2418359	51.65	342	9485	10.9	92.85	1.26	1892	31	1		JBHROM0000000000	SRR28645806	Yes
726__bin.9	s__Rothia denticariosa (SGB49305_group)	1842934	54.20	529	3762	8.8	78.85	2.74	1720	37	2		JBHROL0000000000	SRR28645806	Yes
749__bin.11	s__Prevotella histicola (SGB1543)	2548159	41.61	572	5401	9.3	89.81	3.34	1996	33	0		JBHROK0000000000	SRR28645805	Yes
749__bin.12	s__Streptococcus mutans (SGB8000)	1918202	36.91	98	28492	22.7	97.66	0.95	1835	27	1		JBHROJ0000000000	SRR28645805	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
749__bin.13	s__Scardovia wiggsiae	s__Scardovia wiggsiae (SGB15494)	1461217	53.34	53	43988	17.7	94.94	0.53	1181	41	0	JBHRO1000000000	SRR28645805	Yes
749__bin.14	s__Parascardovia denticolens	s__Parascardovia denticolens (SGB17291)	1723266	58.94	52	48549	49.6	98.83	0.00	1382	44	1	JBHRO4000000000	SRR28645805	Yes
749__bin.16	s__Limosilactobacillus vaginalis	s__Limosilactobacillus vaginalis (SGB7098)	1558444	40.92	159	17102	12.6	95.74	1.48	1467	24	0	JBHROG0000000000	SRR28645805	Yes
749__bin.17	s__Bifidobacterium dentium	s__Bifidobacterium dentium (SGB17234)	2212894	58.89	320	9751	10.5	90.02	2.82	1928	47	1	JBHROF0000000000	SRR28645805	Yes
749__bin.18	s__Actinomyces sp oral	s__Actinomyces sp oral taxon 448 (SGB15872)	2300091	69.53	608	4379	11.7	81.49	2.68	2093	44	2	JBHROE0000000000	SRR28645805	Yes
749__bin.2	s__Mitsuokella sp oral	s__Mitsuokella sp oral taxon 131 (SGB5901)	1989129	57.65	165	17899	11.5	80.33	0.31	1849	34	1	JBHROD0000000000	SRR28645805	Yes
749__bin.3	s__Propionibacterium acidifaciens	s__Propionibacterium acidifaciens (SGB15903)	2889322	71.24	194	21512	52.8	97.15	0.33	2501	48	3	JBHROC0000000000	SRR28645805	Yes
749__bin.6	s__Veillonella parvula	s__Veillonella parvula (SGB6939)	1955708	38.94	189	15136	18.6	97.49	1.80	1794	35	1	JBHROB0000000000	SRR28645805	Yes
749__bin.7	s__Limosilactobacillus fermentum	s__Limosilactobacillus fermentum (SGB7106)	865608	53.34	288	3148	6.7	63.80	0.82	800	20	0	JBHROA0000000000	SRR28645805	Yes
749__bin.8	s__Lancefieldella parvula	s__Lancefieldella parvula (SGB964)	1413394	45.76	209	8402	11.0	95.30	1.55	1218	42	0	JBHRNZ0000000000	SRR28645805	Yes
755__bin.1	s__Peptidiphaga gingivicola	s__Peptidiphaga gingivicola (SGB15894)	1587021	64.12	523	3223	7.8	62.47	2.08	1514	30	0	JBHRNY0000000000	SRR28645804	No
755__bin.20	s__Rothia dentocariosa	s__Rothia dentocariosa (SGB49305_group)	1065657	51.81	30	83615	33.9	65.52	0.00	908	25	1	JBHRNX0000000000	SRR28645804	No
755__bin.21	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii (SGB17007)	2793494	57.26	113	37372	46.7	97.97	0.00	2526	47	4	JBHRNW0000000000	SRR28645804	No
755__bin.22	s__Capnocytophaga granulosa	s__Capnocytophaga granulosa (SGB2483)	1346526	43.17	493	2792	8.9	51.27	2.17	1159	8	0	JBHRNV0000000000	SRR28645804	No
755__bin.24	g__Selenomonas	g__Selenomonas (SGB5897_group)	1761046	58.08	410	5350	9.7	80.52	3.06	1654	30	1	JBHRNU0000000000	SRR28645804	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
755__bin.27	s__Prevotella salivae	s__Prevotella salivae (SGB1522)	2808296	41.47	302	13870	21.5	92.44	1.93	2267	51	0	JBHRINT0000000000	SRR28645804	No
755__bin.3	s__Lancefieldella rimae	NA	1015313	49.49	299	3822	7.0	57.11	0.07	940	21	1	JBHRINS0000000000	SRR28645804	No
755__bin.6	s__Porphyromonas pasteri	s__Porphyromonas bobii (SGB2043)	1209789	56.67	408	3094	6.9	62.91	1.26	1042	28	2	JBHRNRP0000000000	SRR28645804	No
755__bin.7	s__Prevotella histicola	s__Prevotella histicola (SGB1543)	2666606	41.44	241	14894	64.3	93.92	2.08	2127	49	1	JBHRNQ0000000000	SRR28645804	No
758__bin.17	s__Eikenella corrodens	s__Eikenella corrodens (SGB9434_group)	2043199	56.22	203	14079	29.2	90.89	3.14	1988	39	1	JBHRNP0000000000	SRR28645825	No
758__bin.18	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii (SGB17007)	2572822	57.27	343	10454	12.7	89.52	0.87	2488	34	1	JBHRNO0000000000	SRR28645825	No
758__bin.19	g__Saccharimonas	NA	742697	48.31	28	40977	30.9	60.80	1.03	734	39	1	JBHRNN0000000000	SRR28645825	No
758__bin.20	s__Alloprevotella tannerae	s__Alloprevotella tannerae (SGB77721_group)	2296317	46.48	234	13236	16.7	97.77	0.00	1875	41	2	JBHRNM0000000000	SRR28645825	No
758__bin.25	s__Treponema vincentii	s__Treponema vincentii (SGB3607)	2664273	44.82	422	8380	16.8	100.00	2.52	2375	48	2	JBHRNL0000000000	SRR28645825	No
758__bin.26	s__Capnocytophaga granulosa	s__Capnocytophaga granulosa (SGB2483)	1895535	41.57	483	4306	77.0	58.15	2.59	1735	24	1	JBHRNK0000000000	SRR28645825	No
758__bin.27	s__SDRW01 sp007845485	g__CAJPE01	1275742	62.38	484	2718	6.6	52.65	1.69	1264	15	1	JBHRNI0000000000	SRR28645825	No
758__bin.3	s__Treponema_a_C lecitindylri-cum	s__Treponema_a_C lecitindylri-cum (SGB3587)	2215861	44.09	87	44334	17.4	98.60	0.02	1956	44	2	JBHRNH0000000000	SRR28645825	No
758__bin.32	g__Treponema_D	g__Treponema_D (SGB3592)	1771976	42.00	578	3414	7.8	73.28	3.87	1518	30	1	JBHRNG0000000000	SRR28645825	No
758__bin.34	s__Nanosynbacter sp013100825	NA	753678	50.94	26	39083	32.1	63.68	0.85	786	42	2	JBHRNF0000000000	SRR28645825	No
758__bin.38	s__Porphyromonas sp000467855	s__Porphyromonas sp000467855 (SGB2041)	1129995	56.48	385	3035	6.8	60.80	1.62	924	12	0	JBHRNE0000000000	SRR28645825	No
758__bin.40	s__F0058 sp005372605	s__Bacteroides unclassified SGB1343 (SGB1343)	1877189	43.64	86	30699	22.7	97.31	1.11	1596	43	4	JBHRND0000000000	SRR28645825	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
s__Porphyromonas endodontalis															
758__bin.44	s__Porphyromonas endodontalis (SGB2016)	1912543	47.61	44	70672	24.9	99.61	0.00	1591	43	2		JBHRNC0000000000	SRR28645825	No
s__Capnocytophaga gingivalis															
758__bin.45	s__Capnocytophaga gingivalis (SGB2479)	1593136	41.45	373	4971	35.2	55.82	0.00	1372	23	1		JBHRNB0000000000	SRR28645825	No
s__Ottowia sp. Marseille P4747															
758__bin.46	s__Ottowia sp001262075 (SGB12664)	2751721	63.99	182	22670	79.6	97.05	1.90	2434	43	0		JBHRNA0000000000	SRR28645825	No
s__GGB1025 SGB1319															
758__bin.5	s__Bacteroides_D sp013333835 (SGB1319)	2371847	55.48	167	20419	68.8	94.29	0.48	1768	38	0		JBHRMZ0000000000	SRR28645825	No
s__GGB12443															
s__Campylobacter_A sp905371695															
758__bin.7	s__Campylobacter_A sp905371695 (SGB19313)	1552250	46.42	233	8809	22.2	86.68	3.72	1542	19	0		JBHRMY0000000000	SRR28645825	No
g__Nanoperiomorbus															
758__bin.8	g__Nanoperiomorbus NA (SGB19313)	706532	51.13	108	7769	9.7	59.64	0.85	631	38	0		JBHRMY0000000000	SRR28645825	No
s__Corynebacterium durum (SGB17008)															
761__bin.1	s__Corynebacterium durum (SGB17008)	2665812	57.27	366	9691	12.1	92.04	3.50	2629	47	0		JBHRMW0000000000	SRR28645824	No
s__Bacteroidetes oral taxon 274 (SGB1341)															
761__bin.10	s__F0058 sp000163695 (SGB1341)	1661529	44.05	416	4528	11.3	85.88	1.09	1459	31	3		JBHRMV0000000000	SRR28645824	No
s__Actinomyces massiliensis (SGB15873)															
761__bin.12	s__Actinomyces massiliensis (SGB15873)	2256237	66.91	419	6931	31.5	65.79	3.66	2095	42	1		JBHRMU0000000000	SRR28645824	No
s__Rothia dentocariosa (SGB49305_group)															
761__bin.13	s__Rothia dentocariosa (SGB49305_group)	1894778	54.12	490	4478	64.3	83.44	3.05	1769	43	0		JBHRMT0000000000	SRR28645824	No
s__GGB6688 SGB9473															
761__bin.3	g__Kingella (SGB9473)	1128833	40.81	373	3204	7.6	69.62	1.22	1054	19	0		JBHRMS0000000000	SRR28645824	No
s__Veillonella parvula (SGB6939)															
761__bin.5	s__Veillonella parvula_A (SGB6939)	1507804	39.68	426	3871	12.5	83.29	0.79	1300	9	2		JBHRMR0000000000	SRR28645824	No
s__Haemophilus parainfluenzae (SGB9712)															
761__bin.7	s__Haemophilus_D parainfluenzae (SGB9712)	1738410	39.67	541	3461	12.7	82.89	4.89	1590	24	1		JBHRMQ0000000000	SRR28645824	No
s__Streptococcus sanguinis (SGB8050_group)															
761__bin.8	s__Streptococcus sanguinis (SGB8050_group)	1970449	43.73	234	11906	18.1	72.57	2.07	1876	17	0		JBHRMP0000000000	SRR28645824	No
s__Corynebacterium matruchotii (SGB17007)															
761__bin.9	s__Corynebacterium matruchotii (SGB17007)	1657050	57.75	502	3615	8.1	62.20	1.74	1719	24	1		JBHRMO0000000000	SRR28645824	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
764__bin.3	s__Prevotella oris (SGB1525)	s__Prevotella oris (SGB1525)	2457146	44.21	474	6885	9.4	91.29	0.40	2048	41	1	JBHRMN0000000000	SRR28645823	No
764__bin.4	s__Actinomyces oris	s__Actinomyces oris (SGB15878)	1653366	68.64	683	2424	8.8	52.51	0.99	1508	30	0	JBHRMM0000000000	SRR28645823	No
764__bin.5	s__Pauljensenia sp000185285	NA	1573146	66.16	517	3254	7.3	68.96	4.05	1566	23	1	JBHRML0000000000	SRR28645823	No
764__bin.6	s__Corynebacterium matruchotii (SGB17007)	s__Corynebacterium matruchotii (SGB17007)	1816200	57.62	546	3670	7.0	70.50	1.21	1897	33	1	JBHRMK0000000000	SRR28645823	No
764__bin.7	s__Rothia dentocariosa	s__Rothia dentocariosa (SGB49305_group)	2243524	54.06	529	5144	19.2	87.97	4.75	2112	45	2	JBHRMJ0000000000	SRR28645823	No
778__bin.10	s__Haemophilus seminis	s__Haemophilus seminis (SGB9649)	1805273	38.30	292	8270	53.1	66.14	0.00	1758	30	2	JBHRMI0000000000	SRR28645822	No
778__bin.12	s__Actinomyces oris	s__Actinomyces oris (SGB15878)	2872127	68.83	354	11711	19.9	96.77	1.10	2405	49	2	JBHRMH0000000000	SRR28645822	No
778__bin.15	s__Capnocytophaga ochracea	s__Capnocytophaga ochracea (SGB2497)	1549869	41.01	534	3020	8.2	58.80	0.19	1152	8	0	JBHRMG0000000000	SRR28645822	No
778__bin.17	s__Neisseria elongata	s__Neisseria elongata (SGB9447)	1287401	55.38	403	3417	15.3	54.38	1.07	1352	18	0	JBHRMF0000000000	SRR28645822	No
778__bin.19	g__Campylobacter_B	NA	1718526	48.06	431	4639	10.3	81.86	2.51	1554	21	0	JBHRME0000000000	SRR28645822	No
778__bin.2	s__Prevotella denticola	s__Prevotella denticola (SGB1540)	2142570	51.67	382	7118	13.9	65.60	0.86	1704	18	0	JBHRMD0000000000	SRR28645822	No
778__bin.20	s__Porphyromonas pasteri	s__Porphyromonas pasteri (SGB2043)	2034677	55.96	207	12401	13.8	94.14	0.39	1582	43	1	JBHRMC0000000000	SRR28645822	No
778__bin.21	s__Neisseria sicca_C	s__Neisseria sicca (SGB9465_group)	2369345	51.71	123	27631	72.5	96.53	2.92	2178	38	0	JBHRMB0000000000	SRR28645822	No
778__bin.22	s__Veillonella parvula_A	s__Veillonella parvula_A (SGB6939)	2000126	38.86	134	24748	84.6	97.60	1.05	1814	39	3	JBHRMA0000000000	SRR28645822	No
778__bin.3	s__Prevotella melanogenica_B	NA	2927578	41.01	336	12218	39.9	93.44	1.07	2272	38	3	JBHRLZ0000000000	SRR28645822	No
778__bin.4	s__Lautropia mirabilis	s__Lautropia mirabilis (SGB13165)	2500515	65.39	664	4350	8.1	81.47	1.97	2197	43	0	JBHRLY0000000000	SRR28645822	No
778__bin.7	s__Centipeda noxia	s__Centipeda noxia (SGB5884)	1892351	56.40	81	34771	20.0	84.69	0.96	1781	40	2	JBHRLX0000000000	SRR28645822	No
778__bin.9	s__Prevotella oris	s__Prevotella oris (SGB1525)	2817936	43.84	188	23709	26.2	97.85	1.95	2331	46	1	JBHRLW0000000000	SRR28645822	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
782__bin.1	g__Cardiobacterium	s__Cardiobacterium	1941851	60.39	536	4156	10.7	79.35	1.32	1896	28	0	JBHRLV0000000000	SRR28645821	Yes
782__bin.10	s__Leptotrichia hofstadii	s__Leptotrichia hofstadii	1670366	32.34	545	3275	23.1	74.77	2.27	1458	26	0	JBHRLU0000000000	SRR28645821	Yes
782__bin.12	s__Campylobacter_A	s__Campylobacter	2025526	46.16	282	9795	18.7	96.48	2.63	1880	31	0	JBHRLT0000000000	SRR28645821	Yes
782__bin.13	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii	2776835	57.25	50	93969	244.0	96.05	0.06	2531	42	5	JBHRLS0000000000	SRR28645821	Yes
782__bin.14	s__Lautropia mirabilis	s__Lautropia mirabilis	2940210	65.67	314	13092	14.6	93.11	0.12	2462	38	0	JBHRLR0000000000	SRR28645821	Yes
782__bin.15	s__Lachnoanaerobaculum saburreum	s__Lachnoanaerobaculum saburreum	2433727	37.03	573	5159	14.7	93.99	2.76	2156	22	0	JBHRLQ0000000000	SRR28645821	Yes
782__bin.16	s__Porphyromonas pasteri	s__Porphyromonas bobii	2031303	55.94	267	9544	11.7	96.36	0.49	1583	48	1	JBHRLP0000000000	SRR28645821	Yes
782__bin.17	s__Capnocytophaga ochracea	s__Capnocytophaga ochracea	2337722	39.74	473	6093	34.5	90.87	3.93	1971	34	0	JBHRL0000000000	SRR28645821	Yes
782__bin.19	s__Haemophilus_D parainfluenzae	s__Haemophilus parainfluenzae	1306714	39.70	444	3092	12.0	63.01	4.38	1200	10	0	JBHRLN0000000000	SRR28645821	Yes
782__bin.20	s__Tannerella sp003033925	s__Tannerella	1632240	58.50	408	4418	9.1	70.94	1.42	1335	22	0	JBHRLM0000000000	SRR28645821	Yes
782__bin.25	g__Saccharimonas	s__Veillonella parvula	684207	48.48	70	12575	10.8	57.65	0.93	670	33	1	JBHRLK0000000000	SRR28645821	Yes
782__bin.26	s__Veillonella parvula_A	s__Veillonella parvula	1475028	38.83	382	4182	24.5	62.07	1.72	1342	24	0	JBHRLK0000000000	SRR28645821	Yes
782__bin.27	s__Centipeda noxia	s__Selenomonas noxia	1887537	56.62	102	29938	65.7	86.85	2.83	1818	47	3	JBHRLJ0000000000	SRR28645821	Yes
782__bin.3	s__Aggregatibacter sp000466335NA	s__Aggregatibacter	1967970	43.14	207	14374	18.7	96.47	2.17	1879	45	4	JBHRLI0000000000	SRR28645821	Yes
782__bin.30	s__Rodentibacter sp901420285	s__GGB6813 SGB9727	1377482	44.63	332	4719	10.9	78.63	2.02	1261	22	0	JBHRLH0000000000	SRR28645821	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
s__TM7 phylum sp oral															
782__bin.31	s__SDRW01 sp007845485	taxon 348 (SGB19880)	618976	37.33	70	14439	19.6	54.63	0.93	595	28	1	JBHRLG0000000000	SRR28645821	Yes
782__bin.32	g__Prevotella	NA	3168235	48.12	444	9113	14.1	92.24	0.68	2445	37	2	JBHRLF0000000000	SRR28645821	Yes
s__Schaalia sp ORNL0103															
782__bin.34	s__Pauljensenia odontolytica_A	(SGB17163_group)	2196495	65.33	337	9168	16.2	90.22	3.29	1988	40	1	JBHRLD0000000000	SRR28645821	Yes
s__Kingella bonacorsii (SGB9422)															
782__bin.6	s__Kingella_B oralis	1319294	54.88	469	2880	13.0	56.04	2.71	2.71	1333	27	0	JBHRLD0000000000	SRR28645821	Yes
s__Capnocytophaga granulosa (SGB2483)															
782__bin.7	s__Capnocytophaga granulosa	2486997	41.79	281	12121	70.6	94.76	1.72	1.72	2330	41	2	JBHRLC0000000000	SRR28645821	Yes
s__Neisseria sp oral															
785__bin.1	s__Neisseria sp000090875	taxon 014 (SGB9463)	2298675	53.57	198	16809	13.8	96.41	1.35	2121	47	0	JBHRLB0000000000	SRR28645820	No
785__bin.11	s__Lautropia mirabilis	NA	2985310	65.38	434	9519	10.7	93.60	0.16	2519	36	0	JBHRLA0000000000	SRR28645820	No
785__bin.2	s__Campylobacter_A curvus	NA	1419113	45.56	420	3750	7.4	76.88	1.48	1386	11	0	JBHRKZ0000000000	SRR28645820	No
s__Rothia SGB49305 (SGB49305_group)															
785__bin.3	s__Rothia dentocariosa	2094949	53.93	547	4315	24.8	85.42	3.20	3.20	2003	38	1	JBHRKY0000000000	SRR28645820	No
s__Capnocytophaga genosp AHN8471 (SGB2498)															
785__bin.4	s__Capnocytophaga endodontalis	2449115	39.83	740	3544	11.0	75.72	4.90	4.90	2029	17	0	JBHRKX0000000000	SRR28645820	No
s__Capnocytophaga granulosa (SGB2483)															
785__bin.6	s__Capnocytophaga granulosa	1843574	43.36	510	4127	14.2	80.13	1.43	1.43	1529	23	2	JBHRKW0000000000	SRR28645820	No
s__Actinobaculum sp oral taxon 183 (SGB15892)															
785__bin.8	s__Peptidiphaga sp000466165	2245232	67.93	132	24640	30.9	99.17	1.33	1.33	1895	45	0	JBHRKV0000000000	SRR28645820	No
s__Veillonella parvula (SGB6939)															
785__bin.9	s__Veillonella parvula_A	1803271	39.45	393	5579	21.9	94.49	1.32	1.32	1613	24	0	JBHRKU0000000000	SRR28645820	No
788__bin.12	g__Nanoperiomorbus	NA	764555	50.80	92	11071	11.8	59.54	2.56	672	39	1	JBHRKT0000000000	SRR28645819	No
s__Capnocytophaga ochracea (SGB2497)															
788__bin.14	s__Capnocytophaga ochracea	2361505	39.80	652	4042	26.3	84.90	3.40	3.40	1992	34	0	JBHRKS0000000000	SRR28645819	No
s__Scardovia wiggisiae (SGB15494)															
788__bin.15	s__Scardovia wiggisiae	1370491	53.43	208	8683	11.3	89.65	1.55	1.55	1143	42	0	JBHRKR0000000000	SRR28645819	No
788__bin.2	g__Prevotella	NA	2321112	48.73	759	3247	9.1	72.09	2.48	1814	16	2	JBHRKQ0000000000	SRR28645819	No
s__Corynebacterium matruchotii (SGB17007)															
788__bin.20	s__Corynebacterium matruchotii	2802685	57.21	173	24743	24.4	97.21	0.09	0.09	2582	45	3	JBHRKP0000000000	SRR28645819	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
788__bin.25	s__Bacteroides_D sp013333835	s__GGB1025 SGB1319 (SGB1319)	2439212	55.33	175	20642	38.7	97.14	0.12	1844	37	0	JBHRK0000000000	SRR28645819	No
788__bin.26	g__CAJPQU01	s__GGB4299 SGB5872 (SGB5872)	1050880	54.93	398	2710	6.8	55.35	0.65	1040	8	0	JBHRKN0000000000	SRR28645819	No
788__bin.27	s__Centipeda noxia	s__Selenomonas noxia (SGB5884)	1805488	56.54	92	32567	42.6	78.28	0.92	1736	53	3	JBHRKM0000000000	SRR28645819	No
788__bin.28	s__Tannerella forsythia	s__Tannerella forsythia (SGB2053)	2860719	47.87	192	22993	17.2	97.37	0.58	2396	41	1	JBHRKL0000000000	SRR28645819	No
788__bin.29	s__Prevotella denticola	s__Prevotella denticola (SGB1540)	2006612	51.63	549	4138	9.6	54.62	1.72	1660	24	0	JBHRKK0000000000	SRR28645819	No
788__bin.34	s__F0058 sp000163695	s__Bacteroidetes oral taxon 274 (SGB1341)	1979199	43.45	160	17974	23.7	96.77	0.81	1749	40	2	JBHRKJ0000000000	SRR28645819	No
788__bin.4	g__Actinomyces	NA	1911280	68.49	758	2502	29.6	51.26	2.96	1886	28	1	JBHRKD0000000000	SRR28645819	No
788__bin.5	s__Veillonella parvula_A	s__Veillonella parvula (SGB6939)	1286912	39.71	413	3363	11.5	73.20	2.02	1083	5	0	JBHRKH0000000000	SRR28645819	No
788__bin.6	s__Prevotella sp013333935	s__GGB1202 SGB1566 (SGB1566)	1910125	49.11	458	4709	8.8	74.56	1.32	1578	22	1	JBHRKG0000000000	SRR28645819	No
788__bin.7	s__Treponema_D buccale	s__Treponema socranskii (SGB3585)	1975684	50.38	584	3808	10.4	73.38	0.68	1800	21	1	JBHRKF0000000000	SRR28645819	No
791__bin.11	s__Porphyromonas endodontalis	s__Porphyromonas endodontalis (SGB2016)	1636292	48.08	221	9516	12.4	90.55	1.57	1351	36	1	JBHRKE0000000000	SRR28645818	No
791__bin.13	g__JABCEP02	NA	1459595	37.96	283	6228	36.0	91.64	4.84	1323	24	2	JBHRKD0000000000	SRR28645818	No
791__bin.14	s__Prevotella maculosa	s__Prevotella maculosa (SGB1524)	2552529	48.25	228	14077	40.7	91.00	3.56	2085	47	3	JBHRKC0000000000	SRR28645818	No
791__bin.15	s__Prevotella salivae	s__Prevotella salivae (SGB1522)	2085891	41.74	580	3946	18.4	62.51	3.83	1563	23	0	JBHRKB0000000000	SRR28645818	No
791__bin.16	g__Catonella	s__Catonella SGB4505 (SGB4505)	1532534	37.82	525	3107	12.5	63.48	2.57	1259	9	0	JBHRKA0000000000	SRR28645818	No
791__bin.19	g__Prevotella	NA	3422331	47.61	438	10094	117.6	91.55	4.55	2694	44	1	JBHRJZ0000000000	SRR28645818	No
791__bin.20	s__HOT-345 sp003260355	s__SR1 bacterium human oral taxon HOT 345 (SGB6893)	1082466	38.23	43	32654	72.1	70.22	2.25	2002	39	2	JBHRJY0000000000	SRR28645818	No
791__bin.22	s__Lachnoaerobaculum gingivale	s__Lachnoaerobaculum gingivale (SGB4493)	2532682	36.59	851	3167	26.1	63.79	4.31	2197	20	0	JBHRJX0000000000	SRR28645818	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
791__bin.24	s__Prevotella intermedia	s__Prevotella intermedia (SGB1560)	2056392	44.25	367	6838	24.0	88.10	0.34	1674	25	0	JBHRJW0000000000	SRR28645818	No
791__bin.25	s__Alloprevotella sp003639005	s__Alloprevotella sp Lung230 (SGB1467)	1895468	54.52	203	11374	22.2	81.42	0.49	1522	38	1	JBHRJV0000000000	SRR28645818	No
791__bin.26	s__SDRW01 sp007845485	s__TM7 phylum sp oral taxon 348 (SGB19880)	786798	38.26	85	14310	24.3	61.68	1.71	755	38	1	JBHRJU0000000000	SRR28645818	No
791__bin.28	s__Haemophilus_D parainfluenzae	s__Haemophilus_D parainfluenzae (SGB9712)	2037034	39.33	93	32968	69.0	98.77	2.10	1928	47	5	JBHRJT0000000000	SRR28645818	No
791__bin.30	s__Prevotella melaninogenica_B	s__Prevotella melaninogenica_B NA	2942558	41.19	210	21016	178.9	94.93	3.48	2288	37	3	JBHRJS0000000000	SRR28645818	No
791__bin.35	s__Capnocytophaga leadbetteri	s__Capnocytophaga leadbetteri NA	1467579	41.23	158	13168	111.0	58.61	0.95	1301	27	0	JBHRJR0000000000	SRR28645818	No
791__bin.36	s__Neisseria subflava	s__Neisseria subflava (SGB9450_group)	1452723	49.66	356	4761	15.3	68.97	2.32	1554	26	1	JBHRJQ0000000000	SRR28645818	No
791__bin.37	s__Saccharimonas sp013333845	s__Candidatus Nanosynsacchari sp TM7 ANC 38 39 G1 1 (SGB19882)	787235	48.20	38	34235	24.3	64.51	1.08	778	44	2	JBHRJP0000000000	SRR28645818	No
791__bin.38	s__Dialister invisus	s__Dialister invisus (SGB47054_group)	1525574	45.74	300	6305	14.3	88.52	2.20	1442	38	1	JBHRJO0000000000	SRR28645818	No
791__bin.41	s__Peptidiphaga sp00466165	s__Actinobaculum sp oral taxon 183 (SGB15892)	2180913	68.05	224	13632	19.6	87.92	3.42	1876	49	0	JBHRJN0000000000	SRR28645818	No
791__bin.42	s__F0058 sp000163695	s__Bacteroidetes oral taxon 274 (SGB1341)	1154830	42.55	211	6979	25.5	61.81	0.00	1055	22	1	JBHRJM0000000000	SRR28645818	No
791__bin.46	s__Neisseria elongata	s__Neisseria elongata (SGB9447)	2156095	54.44	180	16917	36.6	91.76	3.76	2107	44	1	JBHRJL0000000000	SRR28645818	No
791__bin.5	s__Veillonella parvula_A	s__Veillonella parvula (SGB6939)	1278977	38.30	289	4764	194.3	71.24	3.89	1161	28	3	JBHRJK0000000000	SRR28645818	No
791__bin.50	s__Anaeroglobus micronucifor-mis	s__Megasphaera micronuciformis (SGB5868)	1298862	46.06	253	6339	11.5	83.97	1.57	1216	26	0	JBHRJU0000000000	SRR28645818	No
791__bin.51	g__Campylobacter_A	s__Campylobacter SGB19316 (SGB19316_group)	2267582	45.81	131	29046	109.9	98.21	4.51	2136	38	0	JBHRJU0000000000	SRR28645818	No
791__bin.53	s__Fusobacterium polymorphum	s__Fusobacterium nucleatum (SGB6001)	2483168	27.39	263	14863	214.9	94.94	2.86	2470	32	4	JBHRJH0000000000	SRR28645818	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
791__bin.54	s__Bacteroides_D sp905373475	s__Treponema maltophilum (SGB1315)	2332598	46.74	209	17135	19.2	93.08	0.71	1753	34	2	JBHRJG0000000000	SRR28645818	No
791__bin.55	s__Treponema_C maltophilum (SGB3589)	s__Aggregatibacter sp 2125159857	1310813	49.14	495	2731	10.1	59.95	2.68	1250	22	0	JBHRJF0000000000	SRR28645818	No
791__bin.56	s__Aggregatibacter sp000466335	s__Porphyromonas sp oral taxon 278	1880864	42.97	86	32859	113.0	97.47	1.45	1746	45	6	JBHRJE0000000000	SRR28645818	No
791__bin.57	s__Porphyromonas sp000467855	s__Bacteroides unclassified SGB1343	1819571	56.07	243	9465	47.1	64.11	0.00	1411	28	0	JBHRJD0000000000	SRR28645818	No
791__bin.61	s__F0058 sp905372605	s__Eikenella corrodens	1789336	43.55	144	15864	64.6	95.43	3.05	1518	46	2	JBHRJC0000000000	SRR28645818	No
791__bin.62	s__Eikenella corrodens	s__GGB12761	1561898	56.42	384	4763	17.3	67.18	1.72	1640	36	0	JBHRJB0000000000	SRR28645818	No
791__bin.64	g__Nanosyncoccus	SGB19791	683286	38.50	23	44453	51.4	80.88	0.00	629	44	3	JBHRJA0000000000	SRR28645818	No
791__bin.65	s__Bacteroides_D sp013333835	s__Porphyromonas bobii (SGB2043)	2292642	55.20	189	18253	24.1	92.14	0.48	1745	38	0	JBHRIZ0000000000	SRR28645818	No
791__bin.66	s__Porphyromonas pasteri	s__Corynebacterium matruchotii	1647890	56.41	64	39906	130.5	70.41	2.32	1297	36	3	JBHRIV0000000000	SRR28645818	No
791__bin.68	s__Corynebacterium matruchotii	s__Kingella bonacorsii	2432781	57.82	237	13654	38.7	86.74	2.41	2282	48	3	JBHRIX0000000000	SRR28645818	No
791__bin.7	s__Kingella_B oralis	s__Alloprevotella SGB77721	1928348	54.95	316	8029	20.9	85.27	2.21	1891	38	0	JBHRIW0000000000	SRR28645818	No
791__bin.70	s__Alloprevotella tanneriae	s__Prevotella outorum	1640792	48.56	168	11715	17.8	62.07	0.00	1289	27	1	JBHRIV0000000000	SRR28645818	No
791__bin.71	s__Prevotella outorum	s__Prevotella saccharolytica	1979020	47.63	164	14521	48.5	84.94	0.51	1638	36	1	JBHRIU0000000000	SRR28645818	No
791__bin.72	s__Prevotella saccharolytica		2051209	43.58	482	5051	15.3	77.69	1.65	1586	24	0	JBHRT0000000000	SRR28645818	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
791__bin.75	g__Cardiobacterium	s__Cardiobacterium	1102778	58.30	242	5169	93.4	50.00	0.00	1156	21	0	JBHRI0000000000	SRR28645818	No
809__bin.1	s__Prevotella nigrescens	s__Prevotella nigrescens	1668905	44.53	179	11856	16.4	68.68	0.34	1350	17	1	JBHRI0000000000	SRR28645817	Yes
809__bin.10	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii	2823160	57.25	74	72168	119.8	98.96	0.06	2525	46	5	JBHRI0000000000	SRR28645817	Yes
809__bin.12	s__Streptococcus sobrinus	s__Streptococcus sobrinus	2050318	43.35	91	37869	50.4	93.92	2.62	1946	22	0	JBHRI0000000000	SRR28645817	Yes
809__bin.13	s__Limosilactobacillus fermentum	s__Limosilactobacillus fermentum	1568964	53.70	240	9289	13.4	92.71	2.04	1537	29	2	JBHRI0000000000	SRR28645817	Yes
809__bin.16	s__Veillonella atypica	s__Veillonella atypica	1541784	40.11	113	18916	90.5	70.99	4.47	1402	27	4	JBHRI0000000000	SRR28645817	Yes
809__bin.19	s__Bacteroides D sp905373475	s__GGB1022 SGB1315	2342254	46.60	103	37608	27.9	95.48	0.00	1743	39	2	JBHRI0000000000	SRR28645817	Yes
809__bin.20	s__Capnocytophaga gingivalis	s__Capnocytophaga gingivalis	2512547	40.25	199	20536	97.6	95.82	0.24	2375	42	2	JBHRI0000000000	SRR28645817	Yes
809__bin.23	s__Rothia dentocariosa	s__Rothia SGB49305	1674771	55.00	58	44888	80.8	61.26	0.00	1456	26	3	JBHRI0000000000	SRR28645817	Yes
809__bin.25	s__Parascardovia denticolens	s__Parascardovia denticolens	1616284	59.32	166	13754	13.0	96.27	1.25	1294	39	0	JBHRI0000000000	SRR28645817	Yes
809__bin.28	s__Streptococcus gordonii	s__Streptococcus gordonii	1881792	40.86	60	50370	69.8	86.67	1.43	1800	22	1	JBHRI0000000000	SRR28645817	Yes
809__bin.29	s__Prevotella oris	s__Prevotella oris	2877851	43.95	268	16691	19.2	96.34	2.13	2397	41	1	JBHRI0000000000	SRR28645817	Yes
809__bin.3	s__Centipeda artemidis	s__Selenomonas artemidis	1381836	58.33	446	3226	10.9	66.95	3.71	1419	16	0	JBHRI0000000000	SRR28645817	Yes
809__bin.30	s__Prevotella histicola	s__Prevotella histicola	2422909	41.73	499	5769	12.8	92.36	0.69	1911	33	0	JBHRI0000000000	SRR28645817	Yes
809__bin.6	s__Centipeda noxia	s__Selenomonas noxia	1794283	56.40	118	24327	14.7	82.35	2.04	1701	42	1	JBHRI0000000000	SRR28645817	Yes
809__bin.7	s__Streptococcus mutans	s__Streptococcus mutans	1740982	37.13	286	8719	18.3	89.85	0.58	1601	9	0	JBHRI0000000000	SRR28645817	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
809__bin.8	s__Scardovia wiggsiae	s__Scardovia wiggsiae (SGB15494)	1406361	53.30	155	13407	11.0	93.25	0.64	1162	38	0	JBHRI0000000000	SRR28645817	Yes
809__bin.9	s__Eikenella halliae	s__Eikenella halliae (SGB9430)	2230701	56.76	111	30630	79.7	93.10	1.66	2122	43	1	JBHRI0000000000	SRR28645817	Yes
813__bin.12	s__Capnocytophaga granulosa	s__Capnocytophaga granulosa (SGB2483)	1991259	42.82	456	4997	12.3	86.96	1.11	1706	31	2	JBHRIA0000000000	SRR28645816	Yes
813__bin.13	s__Veillonella parvula	s__Veillonella parvula (SGB6939)	1382186	39.17	381	3925	20.1	78.60	2.64	1233	17	0	JBHRIH0000000000	SRR28645816	Yes
813__bin.14	s__Centipeda noxia	NA	761697	53.43	28	39795	20.1	51.72	1.72	754	20	2	JBHRIHY0000000000	SRR28645816	Yes
813__bin.17	g__Campylobacter_A	NA	2006699	46.18	177	14911	14.2	99.19	1.61	1931	32	1	JBHRIHX0000000000	SRR28645816	Yes
813__bin.2	s__Rothia aeria	s__Rothia aeria (SGB16987)	2111516	57.28	192	17168	65.6	83.76	1.26	1852	42	2	JBHRIHW0000000000	SRR28645816	Yes
813__bin.22	s__Haemophilus_D parainfluenzae	s__Haemophilus parainfluenzae (SGB9712)	1333135	39.83	450	3058	19.2	65.31	3.12	1267	11	0	JBHRIHV0000000000	SRR28645816	Yes
813__bin.3	s__Rothia dentocariosa	s__Rothia dentocariosa (SGB49305_group)	1582069	55.50	95	29945	120.2	52.65	0.66	1426	26	1	JBHRIHU0000000000	SRR28645816	Yes
813__bin.7	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii (SGB17007)	2155702	58.01	73	43889	61.1	73.68	0.00	1962	40	3	JBHRIHT0000000000	SRR28645816	Yes
813__bin.9	s__Haemophilus seminis	s__Haemophilus seminis (SGB9649)	1888379	38.33	115	26478	31.0	98.43	1.87	1801	45	5	JBHRIHS0000000000	SRR28645816	Yes
817__bin.1	g__Lancefieldella	NA	1096750	49.81	277	4382	7.0	67.54	1.32	992	20	0	JBHRIHR0000000000	SRR28645814	Yes
817__bin.10	s__Capnocytophaga ochracea	s__Capnocytophaga ochracea (SGB2497)	2167882	40.17	554	4471	11.6	86.28	1.44	1768	19	1	JBHRIHQ0000000000	SRR28645814	Yes
817__bin.13	s__CAIPQU01 sp905373705	s__CAIPQU01 sp905373705 (SGB5872)	1891807	55.30	155	18787	26.7	94.68	4.19	1809	38	4	JBHRIHP0000000000	SRR28645814	Yes
817__bin.16	s__Saccharimonas sp013333795	s__Saccharimonas sp013333795 NA	789517	48.30	28	40368	17.9	61.27	0.93	792	38	2	JBHRIHO0000000000	SRR28645814	Yes
817__bin.17	s__Porphyromonas endodontalis	s__Porphyromonas endodontalis (SGB2016)	1805238	47.75	145	18986	10.5	98.19	0.79	1491	41	0	JBHRIHN0000000000	SRR28645814	Yes
817__bin.19	g__Nanoperiomorbus	NA	638980	51.39	26	32772	237.1	53.65	0.85	561	37	2	JBHRIHM0000000000	SRR28645814	Yes
817__bin.20	s__CAIPQU01 sp905372875	s__CAIPQU01 sp905372875 (SGB5873)	1947865	55.15	84	32046	45.9	98.76	0.32	1829	41	2	JBHRIHL0000000000	SRR28645814	Yes

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
s__Actinomyces															
817__bin.22	s__Actinomyces dentalis	dentalis (SGB15877)	2690503	72.36	890	3224	15.9	69.61	3.74	2487	40	0	JBHRIHK0000000000	SRR28645814	Yes
s__GGB1202 SGB1566															
817__bin.23	s__Prevotella sp013333935	(SGB1566)	2244343	48.70	268	11246	49.0	89.10	3.49	1853	35	2	JBHRIHJ0000000000	SRR28645814	Yes
s__Scardovia wiggsiae															
817__bin.26	s__Scardovia wiggsiae	(SGB15494)	784463	53.74	276	2948	6.0	52.61	0.45	745	24	0	JBHRIHI0000000000	SRR28645814	Yes
s__Treponema															
817__bin.29	s__Treponema_D buccale	socranskii (SGB3585)	2365349	50.05	447	6659	12.3	96.81	2.57	2085	39	0	JBHRIHH0000000000	SRR28645814	Yes
s__Candidatus															
Saccharibacteria															
unclassified															
SGB19846															
817__bin.33	s__Saccharimonas sp095371715	(SGB19846_group)	667549	49.84	31	33669	15.3	57.41	0.00	658	35	1	JBHRIHG0000000000	SRR28645814	Yes
s__Prevotella oulorum															
817__bin.34	s__Prevotella oulorum	(SGB1520)	2159814	47.85	222	12119	51.9	90.15	3.06	1776	39	1	JBHRIHF0000000000	SRR28645814	Yes
s__Prevotella histicola															
817__bin.36	s__Prevotella histicola	(SGB1543)	1902933	42.45	271	9352	47.5	65.06	1.24	1463	24	2	JBHRIHE0000000000	SRR28645814	Yes
s__Prevotella															
817__bin.39	s__Prevotella nigrescens	nigrescens (SGB1561)	2123929	43.11	133	26017	46.0	74.29	3.45	1744	34	0	JBHRIHD0000000000	SRR28645814	Yes
s__Olsenella sp oral															
817__bin.7	s__Olsenella_F sp001189515	taxon 807 (SGB14348)	2752008	61.41	325	11860	15.7	99.66	2.16	2457	43	0	JBHRIHC0000000000	SRR28645814	Yes
s__Tannerella forsythia															
821__bin.10	s__Tannerella forsythia	(SGB2053)	2830859	47.88	204	21555	32.8	94.36	0.33	2304	38	2	JBHRIHB0000000000	SRR28645813	No
s__GGB1022 SGB1315															
821__bin.16	s__Bacteroides_D sp095373475	(SGB1315)	2477794	46.57	86	47432	126.8	96.19	0.73	1854	39	5	JBHRIHA0000000000	SRR28645813	No
s__GGB2666 SGB69449															
821__bin.18	g__Treponema_D	(SGB69449)	2314977	42.94	269	12238	16.9	97.20	0.00	1873	41	2	JBHRGZ0000000000	SRR28645813	No
s__TM7 phylum sp oral															
821__bin.20	s__SDRK01 sp007845205	taxon 350 (SGB19820)	558416	34.84	136	4799	14.1	66.15	0.00	492	21	1	JBHRGY0000000000	SRR28645813	No
s__Prevotella															
821__bin.22	s__Prevotella nigrescens	nigrescens (SGB1561)	2701530	42.19	236	17983	65.0	99.15	3.07	2351	33	0	JBHRGY0000000000	SRR28645813	No
s__Treponema															
821__bin.24	s__Treponema_D buccale	socranskii (SGB3585)	2267420	49.71	748	3290	16.3	66.94	4.15	2143	30	0	JBHRGV0000000000	SRR28645813	No
s__Treponema_C lecithinolyti															
821__bin.27	cum	(SGB3587)	2120664	44.07	101	37290	25.9	99.30	0.51	1848	43	1	JBHRGV0000000000	SRR28645813	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
821__bin.28	s__Capnocytophaga granulosa	s__Capnocytophaga granulosa (SGB2483)	1082160	44.53	390	2888	10.0	53.61	1.43	835	8	0	JBHRGU0000000000	SRR28645813	No
821__bin.31	s__Prevotella denticola	s__Prevotella denticola (SGB1540)	2044544	51.74	524	4489	9.6	76.03	1.68	1683	18	1	JBHRGT0000000000	SRR28645813	No
821__bin.32	s__Centipeda massiliensis	s__Centipeda massiliensis (SGB5886)	2445142	56.30	578	5268	34.3	61.71	4.31	2475	32	1	JBHRGS0000000000	SRR28645813	No
821__bin.33	s__Porphyromonas endodontalis	s__Porphyromonas endodontalis NA	1411480	48.23	388	3987	7.3	75.10	1.34	1150	22	0	JBHRGR0000000000	SRR28645813	No
821__bin.36	s__Prevotella conceptionensis	s__Prevotella conceptionensis NA	3236170	47.92	700	5442	30.5	88.40	4.61	2573	38	3	JBHRGQ0000000000	SRR28645813	No
821__bin.4	s__Prevotella sp013333935	s__Prevotella sp013333935 (SGB1566)	1453367	49.79	428	3821	9.1	55.69	1.25	1193	15	0	JBHRGP0000000000	SRR28645813	No
821__bin.42	s__F0058 sp000163695	s__Bacteroidetes oral taxon 274 (SGB1341)	2124914	42.99	127	27009	80.4	97.31	2.69	1914	41	2	JBHRGO0000000000	SRR28645813	No
827__bin.10	s__Prevotella nigrescens	s__Prevotella nigrescens (SGB1561)	1959305	43.13	102	29169	35.1	67.24	1.72	1641	31	1	JBHRGN0000000000	SRR28645812	No
827__bin.11	s__Prevotella denticola	s__Prevotella denticola (SGB1540)	2431999	50.68	133	27147	52.3	89.97	0.45	1967	43	3	JBHRGM0000000000	SRR28645812	No
827__bin.13	s__Rothia aeria	s__Rothia aeria (SGB16987)	1511713	57.53	187	10560	48.1	55.50	0.00	1339	29	0	JBHRGL0000000000	SRR28645812	No
827__bin.14	s__Haemophilus_D parainfluenzae	s__Haemophilus parainfluenzae (SGB9712)	1921721	39.39	107	27942	20.0	94.35	0.07	1753	43	3	JBHRGX0000000000	SRR28645812	No
827__bin.16	s__Capnocytophaga gingivalis	s__Capnocytophaga gingivalis (SGB2479)	1535564	41.41	385	4625	10.3	54.23	0.00	1348	15	0	JBHRGI0000000000	SRR28645812	No
827__bin.2	s__Neisseria elongata	s__Neisseria elongata (SGB9447)	1885111	56.02	426	5383	210.7	58.62	4.31	1966	28	2	JBHRGI0000000000	SRR28645812	No
827__bin.6	s__Cardiobacterium hominis	s__Cardiobacterium hominis (SGB9418)	1826265	60.08	355	6503	15.4	65.52	0.00	1793	38	0	JBHRGH0000000000	SRR28645812	No
827__bin.7	s__Peptidiphaga sp000466165	s__Actinobaculum sp oral taxon 183 (SGB15892)	1801323	68.33	338	7011	46.3	72.88	0.42	1623	25	0	JBHRGC0000000000	SRR28645812	No
827__bin.9	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii (SGB17007)	2265424	58.65	294	10442	862.0	73.80	2.98	2160	38	3	JBHRGF0000000000	SRR28645812	No
830__bin.11	s__Capnocytophaga ochracea	s__Capnocytophaga ochracea (SGB2497)	2424358	39.76	461	6496	30.2	93.79	4.43	2069	33	2	JBHRCE0000000000	SRR28645811	No

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TABLE 1 Metagenome-assembled genomes characteristics^a (Continued)

MAG id	GTDB assignment (r207)	PhyloPhlAn assignment (vJun23)	Genome size (bp)	GC content (%)	No. of contigs	N50 (bp)	Coverage (x)	CheckM completeness (%)	CheckM contamination (%)	No. of CDS	No. of tRNAs	No. of rRNAs	GenBank accession no. (assembly)	SRA accession no. (raw reads)	Radiation-related caries
830__bin.14	s__Rothia dentocariosa	s__Rothia SGB49305 (SGB49305_group)	1692373	52.78	320	6370	33.7	76.05	2.92	1540	42	0	JBHRGDD000000000	SRR28645811	No
830__bin.18	s__Prevotella outorum	s__Prevotella outorum (SGB1520)	2180021	47.74	210	14342	14.1	90.90	0.90	1835	39	2	JBHRGCD000000000	SRR28645811	No
830__bin.19	s__Centipeda artemidis	s__Selenomonas artemidis (SGB5878)	2032785	57.65	139	21785	38.7	95.97	2.67	1890	36	3	JBHRGCB000000000	SRR28645811	No
830__bin.21	s__Lachnoanaerobaculum saburreum	s__Lachnoanaerobaculum saburreum (SGB4481)	1667662	37.69	589	2967	7.8	58.61	1.59	1455	17	0	JBHRGA000000000	SRR28645811	No
830__bin.22	s__Selenomonas sp905372355	s__Selenomonas SGB5897 (SGB5897_group)	1957868	57.78	316	8498	12.0	86.65	0.00	1807	29	1	JBHRFY000000000	SRR28645811	No
830__bin.25	s__Kingella_B oralis	s__Kingella_B oralis (SGB9422)	2034489	54.31	393	6862	11.7	86.60	2.03	1989	34	0	JBHRFY000000000	SRR28645811	No
830__bin.28	s__Centipeda noxia	s__Selenomonas noxia (SGB5884)	1389061	54.60	37	62513	71.3	81.84	1.56	1361	34	2	JBHRFY000000000	SRR28645811	No
830__bin.29	s__Prevotella nigrescens	s__Prevotella nigrescens (SGB1561)	2448300	42.28	117	37388	49.9	96.95	0.19	2089	38	1	JBHRFW000000000	SRR28645811	No
830__bin.6	s__Corynebacterium matruchotii	s__Corynebacterium matruchotii (SGB17007)	2838784	57.23	94	53373	77.6	93.66	0.44	2584	57	6	JBHRFY000000000	SRR28645811	No
830__bin.7	s__Cardiobacterium hominis	s__Cardiobacterium hominis (SGB9418)	2095369	59.92	504	4818	10.6	68.97	1.72	2078	40	0	JBHRFU000000000	SRR28645811	No
830__bin.9	s__Leptotrichia hongkongensis	s__Leptotrichia hongkongensis (SGB6059)	1735744	30.91	494	3781	24.9	86.93	2.96	1550	13	0	JBHRFT000000000	SRR28645811	No

^aAccession numbers for assemblies and respective raw metagenomic reads are also provided. NAs are included for the PhyloPhlAn classification when the MAG did not belong (i.e., it had <95% average nucleotide identity) to any species-level genome bin (SGB) in the vJun23 PhyloPhlAn database.

of contigs, N_{50} , coverage, and CheckM completeness and contamination), and genomic features (number of coding sequences [CDSs], tRNAs, and rRNAs) as annotated using Prokka version 1.14.5 (15). All aforementioned tools were applied with default parameters. We also indicate in Table 1 whether the MAG was recovered from a metagenome from an individual who developed radiation-related caries. According to the widely used criteria (16), the resource spans 122 high-quality and 187 medium-quality MAGs, all of which were assigned to the domain Bacteria, with 9 bacterial phyla represented. Overall, genome size ranged between 376 and 3,422 kbp, and GC content ranged between 27.4% and 72.4%, with rRNAs retrieved for 57.3% of the MAGs. This resource will enable insights into the genomic characteristics of plaque microbes in the post-radiation oral environment and their potential role in biofilm-dependent diseases.

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DATA AVAILABILITY

Metagenome-assembled genomes have been deposited in GenBank under the accession numbers listed in Table 1. Metagenomic reads have been deposited in NCBI-SRA under the accession no. [PRJNA1093152](https://www.ncbi.nlm.nih.gov/sra/PRJNA1093152).

ETHICS APPROVAL

This study was conducted at Hospital Sírio-Libanês (São Paulo, Brazil) and approved by its Research Ethics Committee (#HSL2018-71). All volunteers provided their written informed consent before enrollment.

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