

Supplementary Table 4. Results of QPCR performed on DNA isolated from ODS patients' sinus biopsy specimens and periapical lesions (PAL) samples.

QPCR primers were designed to amplify 16S rRNA of 10 selected bacterial taxa. The QPCR results are presented as: detected (1) / undetected (0), the number of bacterial genomes or the relative abundance in sample (%). ND: not determined.

Patient	Sample_ID	Sample_type	Sample_details	Elkella_croddens_detection	Fusobacterium_detection	Peptostreptococcus_anaerobius_detection	Porphyromonas_endodontalis_detection	Porphyromonas_gingivalis_detection	Prevotella_intermedia_detection	Prevotella_igracensis_detection	Pseudomonas_aeruginosa_detection	Staphylococcus_aureus_detection	Streptococcus_anginosus_constellatus_intermedius_detection	Elkella_croddens_genome_number	Fusobacterium_genome_number	Peptostreptococcus_anaerobius_genome_number	Porphyromonas_endodontalis_genome_number	Porphyromonas_gingivalis_genome_number	Prevotella_intermedia_genome_number	Prevotella_igracensis_genome_number	Pseudomonas_aeruginosa_genome_number	Staphylococcus_aureus_genome_number	Streptococcus_anginosus_constellatus_intermedius_genome_number	Elkella_croddens_%	Fusobacterium_nucleatum_%	Peptostreptococcus_anaerobius_%	Porphyromonas_endodontalis_%	Porphyromonas_gingivalis_%	Prevotella_intermedia_%	Prevotella_igracensis_%	Pseudomonas_aeruginosa_%	Staphylococcus_aureus_%	Streptococcus_anginosus_constellatus_intermedius_%	
P2	5	PAL	PAL 26	0	1	0	0	1	0	0	1	0	1	0	1963	0	0	217	0	0	47	0	738	0.00	66.18	0.00	0.00	7.33	0.00	0.00	1.59	0.00	24.90	
P2	6	PAL	PAL 27	1	1	0	0	1	0	1	1	0	1	4034	4482	0	118	997	0	104	615	0	982	35.60	39.56	0.00	1.04	8.79	0.00	0.92	5.42	0.00	8.67	
P2	7	sinus	sinus left	0	0	0	0	0	0	0	0	0	0	0	0	0	51	0	0	0	0	0	0	0.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
P3	8	sinus	sinus left	1	1	0	0	1	0	0	0	1	0	1	773	29078	0	100	94	0	340	0	3453	2.28	85.93	0.00	0.30	0.28	0.00	0.00	1.01	0.00	10.20	
P3	9	PAL	PAL 27	1	1	0	1	1	0	0	1	0	1	561	21366	0	26045	664	0	264	0	3460	1.07	40.81	0.00	49.74	1.27	0.00	0.00	0.50	0.00	6.61		
P4	10	sinus	sinus right	1	0	0	1	1	0	0	1	0	0	897	0	0	167	153	0	0	326	0	0	58.15	0.00	0.00	10.82	9.92	0.00	0.00	21.11	0.00	0.00	
P4	11	PAL	PAL 17	1	1	0	1	1	0	1	1	0	1	24752	6650	0	184	1094	0	251	11097	0	9974	45.83	12.31	0.00	0.36	2.03	0.00	0.46	20.55	0.00	18.47	
P5	12	sinus	sinus left	1	1	0	1	1	1	1	1	0	1	11694	102437	0	3893	167988	29676	3298	2946	0	16197	3.46	30.30	0.00	1.15	49.68	8.78	0.98	0.87	0.00	4.78	
P5	13	PAL	PAL 26	1	1	0	1	1	1	0	1	0	1	592	28519	0	7096	2412	335	0	276	0	11909	1.16	55.77	0.00	13.88	4.72	0.65	0.00	0.54	0.00	23.29	
P6	14	sinus	sinus left	0	1	0	0	1	1	0	1	1	0	1	134268	0	119936	13099	0	3743	85	0	82557	0.00	37.96	0.00	33.91	3.70	0.00	1.06	0.02	0.00	23.34	
P6	15	PAL	PAL 27	1	1	0	1	1	0	1	1	0	0	1	8406	99473	0	8386	80114	0	9626	0	0	10501	3.88	45.94	0.00	3.87	3.07	0.00	4.45	0.00	0.00	4.83
P7	16	sinus	sinus right	1	1	0	1	1	0	0	ND	0	0	1317	946	0	267	184	0	0	711	ND	0	38.45	27.61	0.00	7.80	5.37	0.00	0.00	20.76	ND	0.00	
P7	17	PAL	PAL 16	1	1	0	1	1	0	1	ND	0	0	1	1504	21137	0	3809	6911	0	3363	0	6606	3.47	48.78	0.00	8.79	15.95	0.00	7.76	0.00	ND	15.25	
P8	18	sinus	sinus right	0	0	0	1	1	0	0	1	0	1	0	0	0	162	172	0	0	249	0	4724	0.00	0.00	0.00	3.05	3.24	0.00	0.00	4.69	0.00	89.02	
P8	19	PAL	PAL 17	1	1	0	1	1	1	1	1	0	1	22486	100387	0	57133	18538	2300	13662	6407	0	8950	9.78	43.67	0.00	24.85	8.07	1.00	5.94	2.79	0.00	3.89	
P9	20	sinus	sinus right	1	1	0	1	1	0	1	1	0	1	1277	23694	0	5879	305	0	3940	160	0	10784	2.77	51.47	0.00	12.77	0.66	0.00	8.56	0.35	0.00	23.42	
P9	21	PAL	PAL 15	1	1	0	1	1	0	1	1	0	1	13899	217690	0	85376	3246	0	101700	2323	0	47209	2.95	46.18	0.00	18.11	0.69	0.00	21.57	0.49	0.00	10.01	
P10	22	sinus	sinus left	0	1	0	0	1	0	0	1	0	1	1	13664	0	98	109	0	0	26	0	6033	0.00	68.56	0.00	0.49	0.55	0.00	0.00	0.13	0.00	30.27	
P10	23	PAL	PAL 26	1	1	0	1	1	0	1	1	0	1	1611	57625	0	5940	5586	0	9153	161	0	3309	1.93	69.11	0.00	7.12	6.70	0.00	10.98	0.19	0.00	3.97	
P12	28	sinus	sinus right	1	1	0	0	1	0	0	1	0	1	957	34168	0	129	13471	0	0	43	0	8563	1.73	61.75	0.00	0.23	20.73	0.00	0.00	0.08	0.00	15.48	
P12	29	PAL	PAL 16	1	1	0	1	1	0	0	1	0	1	4532	94909	0	76	14774	0	683	0	0	46978	1.33	32.18	0.00	0.03	50.10	0.00	0.23	0.00	15.83	0.00	
P13	30	sinus	sinus left	0	0	0	0	0	0	0	0	0	1	0	0	0	51	164	0	0	29	0	0	0.00	0.00	0.00	20.81	67.16	0.00	0.00	12.02	0.00	0.00	
P13	31	PAL	PAL 26	1	1	0	1	1	0	1	1	0	1	6397	11455	0	895	3812	0	884	1921	0	1821	23.53	42.14	0.00	3.29	14.02	0.00	3.25	7.07	0.00	6.70	
P14	32	sinus	sinus left	0	1	0	0	0	0	0	1	0	0	0	548	0	47	0	0	0	29	0	0	0.00	87.77	0.00	7.59	0.00	0.00	0.00	4.64	0.00	0.00	
P14	33	PAL	PAL 26	1	1	0	0	1	0	0	1	0	0	1	1203	3438	0	0	390	0	303	0	721	19.87	56.78	0.00	0.00	6.43	0.00	0.00	5.01	0.00	11.90	
P15	34	sinus	sinus left	0	1	0	0	1	1	0	0	1	0	1	0	82103	0	267885	226	0	66	0	69915	0.00	19.54	0.00	63.75	0.05	0.00	0.00	0.02	0.00	16.64	
P15	35	PAL	PAL 27	1	1	0	1	1	1	1	1	0	1	26068	95681	0	7116	1345	55	12561	15078	0	35008	13.51	49.60	0.00	3.69	0.70	0.03	6.51	7.82	0.00	18.15	
P16	36	sinus	sinus right	0	1	0	0	1	0	0	0	0	0	0	2819	0	65	93	0	0	0	0	0	0.00	94.67	0.00	2.19	3.13	0.00	0.00	0.00	0.00	0.00	
P16	37	PAL	PAL 17	1	1	0	1	1	1	1	1	0	1	42527	77606	0	9684	40974	26767	11487	4079	0	8629	19.18	35.00	0.00	4.37	18.48	12.07	5.18	1.84	0.00	3.89	
P17	38	PAL	PAL 16	0	1	0	0	0	0	0	ND	0	0	0	15582	0	0	0	0	0	0	0	0	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	ND	0.00	
P17	39	sinus	sinus right	1	1	0	1	1	1	0	1	ND	1	1	47255	218970	0	43651	1578	50	65093	0	175897	8.55	39.63	0.00	7.90	0.29	0.01	11.78	0.00	ND	31.84	
P18	40	sinus	sinus left	0	1	0	1	1	1	1	1	1	0	1	13028	0	1276	487	2248	46	237	0	758	0.00	72.06	0.00	7.06	2.69	12.43	0.25	1.31	0.00	4.19	
P18	41	PAL	PAL 27	1	1	0	1	1	1	1	1	0	0	1	3413	47669	0	5063	53600	9085	3549	0	0	3391	2.71	37.90	0.00	4.03	4.62	7.22	2.82	0.00	0.00	2.70
P18	42	PAL	PAL 25	1	1	0	1	1	1	1	1	0	1	18487	89659	0	11592	39147	15974	60184	2267	0	12150	7.41	35.94	0.00	4.65	15.69	6.40	24.13	0.91	0.00	4.87	
P18	43	PAL	PAL 26	1	1	0	1	1	1	1	1	0	1	3326	28588	0	3426	20550	6370	10357	272	0	3857	4.33	37.25	0.00	4.48	26.78	8.30	13.50	0.35	0.00	5.03	
P19	44	sinus	sinus left	0	1	0	0	1	1	1	1	0	0	0	821	0	72	294	315	41	279	0	0	0.00	45.07	0.00	3.96	16.15	17.28	2.23	15.31	0.00	0.00	
P19	45	PAL	PAL 26	1	1	0	1	1	0	1	1	0	1	4462	28698	0	1081	1291	0	1943	1034	0	14421	8.43	54.22	0.00	2.04	2.44	0.00	3.67	1.95	0.00	27.25	
P20	46	sinus	sinus right	0	1	0	0	1	0	0	1	0	0	0	8505	0	86	204	0	449	0	0	0	0.00	92.00	0.00	0.93	2.21	0.00	4.86	0.00	0.00	0.00	
P20	47	PAL	PAL 16	1	1	0	1	1	1	1	1	0	1	123447	191649	0	4290	26562	1413	60803	47269	0	73853	23.32	36.21	0.00	0.81	5.02	0.27	11.49	8.93	0.00	13.95	
P21	48	sinus	sinus left	1	1	0	1	1	1	0	0	1	0	0	489	1335	0	508	1359	1773	0	23	0	0	8.91	24.32	0.00	9.26	24.78	32.31	0.00	0.41	0.00	0.00
P21	49	PAL	PAL 27	1	1	0	1	1	1	1	1	0	1	6009	112983	0	115382	308917	475703	5664	530	0	17861	0.58	10.83	0.00	11.06	29.62	45.61	0.54	0.05	0.00	1.71	
P22	50	sinus	sinus left	0	0	0	0	1	0	0	0	0	0	0	0	0	113	177	0	0	0	0	0	0.00	0.00	0.00	38.96	61.04	0.00	0.00	0.00	0.00	0.00	
P22	51	PAL	PAL 26	1	1	0	1	1	1	1	1	0	1	9179	56544	0	485	3645	236	2776	549	0	18405	10.00	61.58	0.00	0.53	3.97	0.26	3.03	0.00	0.00	20.04	
P23	52	sinus	sinus right	0	1	0	0	1	0	0	1	0	1	0	973	0	94	747	0	0	35	0	1693	0.00	27.48	0.00	2.65	21.08	0.00	0.00	0.98	0.00	47.81	
P23	53	PAL	PAL 15	1	1	0	0	1	1	1	1	0	1	20660	40200	0	129	58534	257															