

Supplementary Table S5. NOISeq statistical results for the differences in phylogenetic assignments in the metagenome and metatranscriptome of the samples shown in Figure 2.

Metagenome

	No Periodontitis mean	Periodontitis mean	M (fold-change)	D (absolute expression differences)	Probability	ranking
<i>Porphyromonas gingivalis</i>	274.76	259695.34	-9.88	259420.58	0.99	-259420.58
<i>Streptococcus mutans</i>	1609.19	138808.03	-6.43	137198.84	0.94	-137198.84
<i>Streptococcus parasanguinis</i>	1223.82	88000.15	-6.17	86776.33	0.93	-86776.33
<i>Lactococcus lactis</i>	285.33	18764.94	-6.04	18479.60	0.91	-18479.60
<i>Actinomyces sp. oral taxon 448</i>	1780.72	75765.84	-5.41	73985.12	0.90	-73985.12
<i>Tannerella forsythia</i>	653.89	29325.33	-5.49	28671.45	0.90	-28671.45
<i>Pseudomonas fluorescens</i>	1419.11	49544.94	-5.13	48125.83	0.88	-48125.83
<i>Ralstonia pickettii</i>	121.16	6943.39	-5.84	6822.23	0.87	-6822.23
<i>Scardovia wiggisiae</i>	51.49	4951.01	-6.59	4899.52	0.87	-4899.52
<i>Eubacterium saphenum</i>	560.34	18295.09	-5.03	17734.76	0.86	-17734.76
<i>Streptococcus anginosus</i>	3544.22	74099.60	-4.39	70555.38	0.84	-70555.38
<i>Burkholderia cepacia</i>	64.89	2959.46	-5.51	2894.57	0.81	-2894.58
<i>Achromobacter xylosoxidans</i>	257.21	5656.40	-4.46	5399.19	0.80	-5399.19
<i>Enterococcus italicus</i>	269.40	5412.77	-4.33	5143.38	0.79	-5143.38
<i>Synergistetes bacterium</i>	320.88	4609.80	-3.84	4288.92	0.75	-4288.92
<i>Enterococcus saccharolyticus</i>	99.67	2307.99	-4.53	2208.32	0.75	-2208.32
<i>Neisseria lactamica</i>	170.29	2663.36	-3.97	2493.08	0.73	-2493.08
<i>Bordetella pertussis</i>	61.33	1651.87	-4.75	1590.54	0.73	-1590.55
<i>Pseudomonas stutzeri</i>	101.16	1969.22	-4.28	1868.07	0.73	-1868.07
<i>Acinetobacter baumannii</i>	3279.81	30224.43	-3.20	26944.62	0.72	-26944.62
<i>Comamonas testosteroni</i>	160.92	2327.48	-3.85	2166.56	0.71	-2166.56
<i>Escherichia coli</i>	3369.07	30360.59	-3.17	26991.52	0.71	-26991.52
<i>Bradyrhizobium elkanii</i>	276.43	3100.96	-3.49	2824.53	0.70	-2824.53
<i>Eubacterium saburreum</i>	735828.97	2592.41	8.15	733236.57	0.98	733236.57
<i>Corynebacterium matruchotii</i>	248515.63	3111.50	6.32	245404.13	0.94	245404.13
<i>Peptoniphilus indolicus</i>	33931.38	712.50	5.57	33218.89	0.90	33218.89
<i>Lachnospiraceae oral taxon 082</i>	21790.23	1085.80	4.33	20704.44	0.82	20704.44
<i>Rothia aeria</i>	10848.56	627.32	4.11	10221.24	0.80	10221.24
<i>Peptoniphilus sp. oral taxon 386</i>	15257.45	1012.04	3.91	14245.41	0.79	14245.41
<i>Oribacterium sp. oral taxon 108</i>	13673.39	961.24	3.83	12712.15	0.78	12712.15
<i>Lachnospiraceae oral taxon 107</i>	29897.43	2441.36	3.61	27456.07	0.76	27456.07
<i>Leptotrichia hofstadii</i>	82014.28	6979.66	3.55	75034.62	0.76	75034.62

Metatranscriptome

	No Periodontitis mean	Periodontitis mean	M (fold-change)	D (absolute expression differences)	Probability	ranking
<i>Bacteroidetes oral taxon 274</i>	108.40	12152.83	-6.81	12044.43	0.94	-12044.43
<i>Leptotrichia hofstadii</i>	196.74	8818.00	-5.49	8621.26	0.90	-8621.27
<i>Kingella denitrificans</i>	85.52	4911.00	-5.84	4825.47	0.89	-4825.48
<i>Synergistetes bacterium</i>	96.93	5246.05	-5.76	5149.12	0.89	-5149.12
<i>Scardovia wiggisiae</i>	26.08	2758.54	-6.72	2732.46	0.88	-2732.47
<i>Prevotella intermedia</i>	242.83	7190.30	-4.89	6947.48	0.87	-6947.48

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Metatranscriptome

	No Periodontitis mean	Periodontitis mean	M (fold-change)	D (absolute expression differences)	Probability	ranking
<i>Porphyromonas gingivalis</i>	423.42	10819.88	-4.68	10396.46	0.87	-10396.47
<i>Atopobium parvulum</i>	54.08	2902.48	-5.75	2848.39	0.87	-2848.40
<i>Streptococcus parasanguinis</i>	995.58	20211.99	-4.34	19216.41	0.86	-19216.41
<i>Treponema denticola</i>	128.80	3833.78	-4.90	3704.98	0.86	-3704.98
<i>Prevotella veroralis</i>	71.57	2847.31	-5.31	2775.74	0.86	-2775.74
<i>Leptotrichia buccalis</i>	155.31	4017.33	-4.69	3862.03	0.85	-3862.03
<i>Pyramidobacter piscolens</i>	307.67	6138.29	-4.32	5830.63	0.84	-5830.63
<i>Treponema vincentii</i>	195.87	3834.24	-4.29	3638.36	0.83	-3638.36
<i>Prevotella tannerae</i>	73.75	2176.98	-4.88	2103.23	0.83	-2103.23
<i>Cardiobacterium hominis</i>	173.33	2867.74	-4.05	2694.41	0.81	-2694.41
<i>Porphyromonas sp. oral taxon 279</i>	178.55	2750.21	-3.95	2571.66	0.80	-2571.66
<i>Campylobacter showae</i>	111.74	1971.16	-4.14	1859.42	0.80	-1859.42
<i>Rothia dentocariosa</i>	3394.79	33032.57	-3.28	29637.78	0.78	-29637.78
<i>Peptostreptococcus stomatis</i>	112.35	1678.63	-3.90	1566.28	0.78	-1566.29
<i>Tannerella forsythia</i>	364.14	4033.48	-3.47	3669.34	0.77	-3669.34
<i>Dialister microaerophilus</i>	55.87	1133.75	-4.34	1077.88	0.77	-1077.89
<i>Neisseria flavescens</i>	129.16	1740.57	-3.75	1611.41	0.77	-1611.42
<i>Corynebacterium matruchotii</i>	6787.15	61280.96	-3.17	54493.81	0.77	-54493.81
<i>Filifactor alocis</i>	58.18	989.26	-4.09	931.08	0.75	-931.09
<i>Prevotella sp. oral taxon 306</i>	66.49	983.63	-3.89	917.14	0.74	-917.15
<i>Rothia aeria</i>	593.54	4909.97	-3.05	4316.43	0.74	-4316.44
<i>Campylobacter rectus</i>	91.45	1112.60	-3.60	1021.16	0.73	-1021.16
<i>Leptotrichia goodfellowii</i>	151.06	1394.99	-3.21	1243.93	0.72	-1243.93
<i>Actinomyces sp. oral taxon 448</i>	2031.62	13563.25	-2.74	11531.63	0.71	-11531.63
<i>Veillonella atypica</i>	332.09	2430.37	-2.87	2098.28	0.70	-2098.28
<i>Actinomyces sp. oral taxon 171</i>	19315156.87	42984.34	8.81	19272172.54	0.99	19272172.54
<i>Actinomyces sp. oral taxon 180</i>	9952.39	228.23	5.45	9724.16	0.90	9724.16
<i>Bifidobacterium dentium</i>	2529.92	112.92	4.49	2417.00	0.83	2417.00
<i>Propionibacterium acnes</i>	2296.13	110.73	4.37	2185.40	0.82	2185.40
<i>Acinetobacter baumannii</i>	2273.34	141.37	4.01	2131.97	0.80	2131.97
<i>Lactobacillus gasseri</i>	1789.95	103.80	4.11	1686.15	0.79	1686.16
<i>Actinomyces sp. oral taxon 170</i>	9866.17	1018.45	3.28	8847.71	0.77	8847.71
<i>Aggregatibacter actinomycetemcomitans</i>	3302.90	316.06	3.39	2986.85	0.76	2986.85
<i>Eubacterium saburreum</i>	5718.26	674.89	3.08	5043.37	0.74	5043.37