

**Supplemental Table 1.** Percent concordance in 532 EPIC case and control subjects having replicate samples for each oral bacterial strain

<b>Bacteria</b>	<b>Percent concordance*</b>
<i>A. actinomycetemcomitans</i> ATCC 29523	0.72
<i>A. actinomycetemcomitans</i> ATCC 43718	0.71
<i>A. naeslundii</i> ATCC 12104	0.84
<i>B. dentium</i> ATCC 27534	0.77
<i>C. matruchotii</i> ATCC 14266	0.78
<i>C. ochracea</i> ATCC 33596	0.77
<i>E. corrodens</i> ATCC 23834	0.72
<i>E. faecalis</i> ATCC 29212	0.77
<i>F. magna</i> ATCC 29328	0.82
<i>F. nucleatum</i> ATCC 25586	0.72
<i>F. periodonticum</i> ATCC 33693	0.80
<i>F. polymorphum</i> ATCC 10953	0.80
<i>P. anaerobius</i> ATCC 27337	0.77
<i>P. gingivalis</i> ATCC 33277	0.77
<i>P. gingivalis</i> ATCC 53978	0.73
<i>P. intermedia</i> ATCC 25611	0.75
<i>P. melaninogenica</i> ATCC 25845	0.68
<i>P. micra</i> ATCC 33270	0.67
<i>P. nigrescens</i> ATCC 33563	0.73
<i>S. intermedius</i> ATCC 27335	0.76
<i>S. mitis</i> ATCC 49456	0.76
<i>S. salivarius</i> ATCC 7073	0.72
<i>T. forsythia</i> ATCC 43037	0.75
<i>V. atypica</i> ATCC 17744	0.80
<i>V. parvula</i> ATCC 10790	0.79

\*Concordance is defined as falling into the same category on both tests (i.e., 0-7.5; 7.6-50; 50-200; >200)

**Supplemental Table 2.** Correlations between antibodies to oral bacteria in EPIC samples included in this analysis.

	<i>F.perio</i>	<i>P.gin33</i>	<i>P.gin53</i>	<i>A.act29</i>	<i>A.act43</i>	<i>T.forsy</i>	<i>B.dent</i>	<i>A.naes</i>	<i>C.ochr</i>	<i>V.atyp</i>	<i>V.parv</i>	<i>E.corr</i>	<i>C.matr</i>	<i>P.inter</i>	<i>P.mela</i>	<i>P.nigr</i>	<i>P.anae</i>	<i>E.faec</i>	<i>F.magn</i>	<i>P.micra</i>	<i>F.nucl</i>	<i>F.poly</i>	<i>S.inter</i>	<i>S.mitis</i>	<i>S.saliva</i>
<i>F.perio</i>	1.0	.42	.50	.44	.56	.39	.60	.20	.77	.63	.64	.67	.22	.60	.26	.37	.39	.34	.33	.37	.51	.78	.68	.18	.55
<i>P.gin33</i>		1.0	.91	.36	.38	.45	.44	.23	.35	.47	.48	.49	.34	.61	.38	.41	.41	.36	.36	.37	.47	.47	.39	.33	.41
<i>P.gin53</i>			1.0	.38	.41	.45	.50	.22	.45	.52	.52	.54	.34	.63	.36	.40	.42	.35	.37	.39	.47	.54	.44	.31	.45
<i>A.act29</i>				1.0	.94	.44	.41	.27	.27	.50	.53	.57	.33	.49	.48	.48	.43	.34	.40	.39	.57	.52	.41	.42	.50
<i>A.act43</i>					1.0	.42	.45	.27	.43	.52	.54	.39	.29	.52	.39	.43	.41	.31	.38	.37	.53	.59	.51	.33	.50
<i>T.forsy</i>						1.0	.54	.32	.26	.57	.60	.53	.49	.65	.61	.65	.56	.50	.52	.51	.59	.47	.43	.50	.61
<i>B.dent</i>							1.0	.38	.53	.67	.69	.69	.57	.65	.49	.47	.56	.55	.60	.54	.51	.67	.53	.42	.59
<i>A.naes</i>								1.0	.20	.35	.36	.39	.50	.35	.35	.29	.29	.31	.32	.34	.29	.30	.22	.32	.35
<i>C.ochr</i>									1.0	.49	.47	.62	.12	.51	.06	.17	.19	.19	.16	.29	.27	.67	.61	.001	.43
<i>V.atyp</i>										1.0	.88	.70	.51	.69	.58	.57	.58	.56	.56	.54	.60	.67	.58	.48	.68
<i>V.parv</i>											1.0	.72	.52	.70	.63	.64	.63	.57	.60	.57	.65	.68	.54	.52	.70
<i>E.corr</i>												1.0	.55	.72	.53	.51	.55	.53	.57	.60	.56	.77	.54	.42	.63
<i>C.matr</i>													1.0	.51	.59	.45	.59	.53	.64	.53	.44	.40	.19	.50	.43
<i>P.inter</i>														1.0	.65	.72	.59	.55	.55	.58	.64	.68	.54	.47	.65
<i>P.mela</i>															1.0	.76	.64	.56	.62	.56	.60	.40	.26	.63	.59
<i>P.nigr</i>																1.0	.56	.48	.52	.46	.59	.45	.38	.54	.61
<i>P.anae</i>																	1.0	.61	.74	.55	.57	.46	.37	.59	.57
<i>E.faec</i>																		1.0	.59	.46	.48	.44	.33	.48	.53
<i>F.magn</i>																			1.0	.53	.50	.43	.29	.52	.51
<i>P.micra</i>																				1.0	.48	.47	.36	.73	.55
<i>F.nucl</i>																					1.0	.56	.44	.49	.28
<i>F.poly</i>																						1.0	.59	.57	.56
<i>S.inter</i>																							1.0	.28	.60
<i>S.mitis</i>																								1.0	.63

All correlations above .10 were statistically significant (p<. 05)

*F.perio*, *F. periodonticum* ATCC 33693; *P.gin33*, *P. gingivalis* ATCC 33277; *P.gin53*, *P. gingivalis* ATCC 53978; *A.act29*, *A. actinomycetemcomitans* ATCC 29523; *A.act43*, *A. actinomycetemcomitans* ATCC 43718; *T. forsy*, *T. forsythia* ATCC 43037; *B. dent*, *B. dentium* ATCC 27534; *A.naes*, *A. naeslundii* ATCC 12104; *C.ochr*, *C. ochracea* ATCC 33596; *V.atyp*, *V. atypica* ATCC 17744; *V.parv*, *V. parvula* ATCC 10790; *E.corr*, *E. corrodens* ATCC 23834; *C.matr*, *C. matruchotii* ATCC 14266; *P.inter*, *P. intermedia* ATCC 25611; *P.mela*, *P. melaninogenica* ATCC 25845; *P.nigr*, *P. nigrescens* ATCC 33563; *P.anae*, *P. anaerobius* ATCC 27337; *E.faec*, *E. faecalis* ATCC 29212; *F.magn*, *F. magna* ATCC 29328; *P.micra*, *P. micra* ATCC 33270; *F.nucl*, *F. nucleatum* ATCC 25586; *F.poly*, *F. polymorphum* ATCC 10953; *S.inter*, *S. intermedius* ATCC 27335; *S.mitis*, *S. mitis* ATCC 49456; *S.saliva*, *S. salivarius* ATCC 7073.

**Supplemental Table 3 .** Percentage of samples for 4 levels of antibodies to oral bacteria by case and control subjects. Test for trends (across categories) are provided for each bacteria in relation to pancreatic cancer; all statistically significant *p*-values represent significance for inverse associations.

<b>Bacteria</b>	<b>Controls/Cases with IgG levels 0-7.5 ng/ml (%)</b>	<b>Controls/Cases with IgG levels 7.6-50 ng/ml (%)</b>	<b>Controls/Cases with IgG levels 50-200 ng/ml (%)</b>	<b>Controls/Cases with IgG levels &gt;200 ng/ml (%)</b>	<b>Test for trend P-value*</b>
Oral pathogens (Gram negative)					
<i>Porphyromonas gingivalis</i> ATCC 33277	20.7/24.0	26.7/26.2	35.3/32.6	17.3/17.3	0.31
<i>Porphyromonas gingivalis</i> ATCC 53978	44.5/48.6	26.2/24.9	24.8/19.3	4.6/7.2	0.42
<i>Aggregatibacter actinomycetemcomitans</i> ATCC 29523	7.5/10.1	28.1/29.4	42.6/40.7	21.9/19.8	0.33
<i>Aggregatibacter actinomycetemcomitans</i> ATCC 43718	9.1/11.1	29.3/29.6	37.7/39.3	23.8/20.0	0.39
<i>Tannerella forsythia</i> ATCC 43037	42.1/44.9	38.2/36.3	17.6/16.5	2.2/2.2	0.67
Oral bacterial species of the human microbiome (Gram negative)					
<i>Captonocytophaga ochracea</i> ATCC 33596	26.7/31.1	22.1/22.2	20.0/15.8	31.3/30.9	0.02
<i>Eikenella corrodens</i> ATCC 23834	17.1/22.0	27.9/32.6	42.3/34.8	12.7/10.6	0.001
<i>Fusobacterium nucleatum</i> ATCC 25586	31.0/39.3	42.3/38.3	22.1/18.0	4.6/4.4	0.03
<i>Fusobacterium periodonticum</i> ATCC 33693	65.4/67.9	25.7/23.0	8.7/8.6	0.24/0.49	0.58
<i>Fusobacterium polymorphum</i> ATCC 10953	61.8/67.2	30.8/27.2	7.2/5.4	0.24/0.25	0.06
<i>Prevotella intermedia</i> ATCC 25611	26.9/31.6	36.3/37.0	32.2/26.7	4.6/4.7	0.06
<i>Prevotella melaninogenica</i> ATCC 25845	10.6/12.1	31.7/33.1	46.2/44.2	11.5/10.6	0.70
<i>Prevotella nigrescens</i> ATCC 33563	8.4/14.8	25.5/29.9	54.1/44.9	12.0/10.4	0.001
<i>Veillonella atypica</i> ATCC 17744	53.4/58.0	36.3/32.1	10.1/9.6	0.24/0.25	0.21
<i>Veillonella parvula</i> ATCC 10790	33.2/38.5	44.7/39.8	20.2/20.7	1.9/0.99	0.19
Oral bacterial species of the human microbiome (Gram positive)					
<i>Actinomyces naeslundii</i> ATCC 12104	0.96/0.25	2.6/4.4	15.9/17.8	80.3/77.5	0.29
<i>Bifidobacterium dentium</i> ATCC 27534	63.0/67.4	26.7/23.7	9.9/7.9	0.48/0.99	0.27
<i>Corynebacterium matruchotii</i> ATCC 14266	56.3/60.4	28.9/25.3	13.0/13.6	1.9/0.74	0.24

<i>Enterococcus faecalis</i> ATCC 29212	63.0/67.7	25.7/23.0	10.6/9.1	0.72/0.25	0.25
<i>Fingoldia magna</i> ATCC 29328	85.1/87.2	13.7/11.4	1.2/1.2	0/0.25	0.44
<i>Parvimonas micra</i> ATCC 33270	2.9/3.7	6.7/9.4	38.2/39.0	52.2/47.9	0.05
<i>Peptostreptococcus anaerobius</i> ATCC 27337	88.9/88.4	10.1/9.9	0.96/1.73	--	0.78
<i>Streptococcus intermedius</i> ATCC 27335	35.6/42.2	36.5/32.8	22.1/19.5	5.8/5.4	0.03
<i>Streptococcus mitis</i> ATCC 49456	0.96/1.5	7.7/13.6	44.5/41.2	46.9/43.7	0.02
<i>Streptococcus salivarius</i> ATCC 7073	7.9/14.1	28.1/30.4	52.6/44.9	11.3/10.6	0.002

\*P-values for tests of trends across categories based on conditional logistic regression models (to account for matching factors) and further adjusting for BMI (continuous) and smoking status (never, past, current).

**Supplemental Table 4.** Mean (log) antibody levels by clusters 1 and 2.

<b>Bacteria**</b>	<b>Cluster 1</b>	<b>Cluster 2</b>
<i>P. gingivalis</i> ATCC 33277	1.54	4.44
<i>P. gingivalis</i> ATCC 53978	-1.03	3.03
<i>A. actinomycetemcomitans</i> ATCC 29523	3.11	4.65
<i>A. actinomycetemcomitans</i> ATCC 43718	2.96	4.66
<i>T. forsythia</i> ATCC 43037	-0.18	2.77
<i>C. ochracea</i> ATCC 33596	0.35	4.62
<i>E. corrodens</i> ATCC 23834	0.14	4.62
<i>F. nucleatum</i> ATCC 25586	0.51	3.30
<i>F. periodonticum</i> ATCC 33693	-3.31	-0.14
<i>F. polymorphum</i> ATCC 10953	-3.33	0.15
<i>P. intermedia</i> ATCC 25611	0.39	4.07
<i>P. melaninogenica</i> ATCC 25845	2.73	4.48
<i>P. nigrescens</i> ATCC 33563	2.73	4.56
<i>V. atypica</i> ATCC 17744	-1.71	2.33
<i>V. parvula</i> ATCC 10790	-0.30	3.65
<i>A. naeslundii</i> ATCC 12104	5.15	5.39
<i>B. dentium</i> ATCC 27534	-2.84	1.48
<i>C. matruchotii</i> ATCC 14266	-1.55	1.52
<i>E. faecalis</i> ATCC 29212	-1.99	1.17
<i>F. magna</i> ATCC 29328	-4.24	-1.13
<i>P. micra</i> ATCC 33270	4.32	5.30
<i>P. anaerobius</i> ATCC 27337	-3.91	-1.04
<i>S. intermedius</i> ATCC 27335	0.13	3.13
<i>S. mitis</i> ATCC 49456	4.51	5.17
<i>S. salivarius</i> ATCC 7073	2.75	4.57

\* Bacterial names organized as Table 2.