

Supplementary Table 1. Composition of subgingival plaque samples and in-vitro biofilms

Days	No. of sequences													
	Sample													
	P1						P2				P3			
	0	15	30	45	60	75	90	105	120	170	0	50	0	50
<i>Acinetobacter baumannii</i>			1				1							
<i>Actinobaculum</i> sp. HOT 183	14										8			
<i>Actinomyces cardiffensis</i>										1			8	
<i>Actinomyces graevenitzi</i>			1											
<i>Actinomyces israelii</i>														1
<i>Actinomyces naeslundii</i>			1	2				1		1	19	1	157	
<i>Actinomyces odontolyticus</i>				1									1	
<i>Actinomyces</i> sp. HOT 169	12				2									
<i>Actinomyces</i> sp. HOT 171		2								2	4			
<i>Actinomyces</i> sp. HOT 180						1			1				30	
<i>Actinomyces</i> sp. HOT 414											3			
<i>Actinomyces</i> sp. HOT 448											20			
<i>Actinomyces</i> sp. HOT 449											1			
<i>Actinomyces</i> sp. HOT 897											1			
<i>Actinomyces</i> unclassified	2	1	3	2	10		4	1	7		10	1	14	1
<i>Aggregatibacter aphrophilus</i>													1	
<i>Aggregatibacter</i> sp. HOT 458											1			
<i>Alloprevotella rava</i>	15				1						18			
<i>Alloprevotella</i> sp. HOT 308											1			
<i>Alloprevotella</i> sp. HOT 473	3												3	
<i>Alloprevotella</i> sp. HOT 914		1												
<i>Alloprevotella tannerae</i>	44										17		120	
<i>Anaeroglobus geminatus</i>	3						129	778	169	177	4		5	265
<i>Atopobium parvulum</i>												1	2	
<i>Atopobium rimae</i>											18		13	
<i>Atopobium</i> sp. HOT 199	1													
<i>Bacteroidaceae</i> bacterium HOT 272	20	11	18	119	96	884	1017	1092	190	15	36	16	16	553
<i>Bacteroidales</i> bacterium HOT 274	11										4			
<i>Bacteroides heparinolyticus</i>										10				

<i>Bacteroidetes</i> bacterium HOT 280	16								1		8			
<i>Bacteroidetes</i> bacterium HOT 505	3													
<i>Bacteroidetes</i> bacterium HOT 511	3										65			
<i>Bacteroidetes</i> unclassified	64									19	2			
<i>Betaproteobacteria</i> unclassified	1													
<i>Bifidobacterium dentium</i>											1		2	
<i>Bulleidia extracta</i>											4			
<i>Burkholderiales</i> unclassified	1													
<i>Campylobacter concisus</i>											5		1	
<i>Campylobacter curvus</i>												34		
<i>Campylobacter gracilis</i>		3	23	16	8	2	10	5			10		14	51
<i>Campylobacter rectus</i>	10	9	74	21	29	80	34	18	37	22	7	11		259
<i>Campylobacter showae</i>		2		22	2	3		1		26		111	2	
<i>Catonella morbi</i>	8	1	7	4	17	25	13	10	13	31	5	32	2	14
<i>Catonella</i> sp. HOT 451										2				
<i>Capnocytophaga granulosa</i>	10										1		12	
<i>Capnocytophaga haemolytica</i>	10													
<i>Capnocytophaga leadbetterii</i>			9										8	
<i>Capnocytophaga</i> sp. HOT 323													2	
<i>Capnocytophaga</i> sp. HOT 326	3												10	
<i>Capnocytophaga</i> sp. HOT 336											5			
<i>Capnocytophaga</i> sp. HOT 864											7	1	1	
<i>Capnocytophaga sputigena</i>	8												17	
<i>Capnocytophaga</i> unclassified													11	
<i>Cardiobacterium hominis</i>	2												2	
<i>Chloroflexi</i> bacterium HOT 439	1										8			
<i>Clostridiales</i> bacterium HOT 075													6	
<i>Clostridiales</i> bacterium HOT 085											2			
<i>Clostridiales</i> bacterium HOT 093	29										1		1	
<i>Clostridiales</i> unclassified	8													
<i>Comomonadaceae</i> unclassified											1			
<i>Corynebacterium matruchotii</i>	1										8		17	
<i>Desulfobulbus</i> sp. HOT 041	40										22		3	
<i>Dialister invisus</i>	16		11	15	12	68	40	44		37	21		73	2
<i>Dialister pneumosintes</i>	1	5		6	10	5	1	1		19			59	

<i>Dialister</i> sp. HOT 119														6
<i>Dialister</i> unclassified			2											1
<i>Eikenella</i> <i>corrodens</i>										1		4		61
<i>Erysipelotrichaceae</i> bacterium HOT 904											3			1
<i>Erysipelotrichaceae</i> bacterium HOT 905											1			2
<i>Eubacterium</i> <i>brachy</i>											8			
<i>Eubacterium</i> <i>infirimum</i>	5	124	134	57	200	137	156	117	43	196	5		1	87
<i>Eubacterium</i> <i>minutum</i>										23				
<i>Eubacterium</i> <i>nodatum</i>	85							3						
<i>Eubacterium</i> <i>saburreum</i>														3
<i>Eubacterium</i> <i>saphenum</i>	12										61			9
<i>Eubacterium</i> <i>yurii</i>		1										38		
<i>Filifactor</i> <i>alocis</i>	92	40	21	540	134	170	205	159		232	67	123	60	212
<i>Fretibacterium</i> <i>fastidiosum</i>	22				6	4	43	89	4	251	7	145	7	34
<i>Fretibacterium</i> HOT 359	3									4	4	10		
<i>Fretibacterium</i> HOT 360	53									23	5			
<i>Fretibacterium</i> HOT 361	53	1									5			
<i>Fretibacterium</i> unclassified	48										1			5
<i>Fusobacterium</i> <i>nucleatum</i> ss <i>animalis</i>	16	7	45	39	35	225	428	22	41	4	15	432	180	286
<i>Fusobacterium</i> <i>nucleatum</i> ss <i>periodonticum</i>	2				1									2
<i>Fusobacterium</i> <i>nucleatum</i> ss <i>polymorphum</i>		6	2											31
<i>Fusobacterium</i> <i>nucleatum</i> ss <i>vincentii</i>	160	11	201		4	2	51	11	96	22	393		153	185
<i>Fusobacterium</i> HOT 370											3			
<i>Fusobacterium</i> unclassified	22		97	1							6			8
<i>Fusobacteriales</i> unclassified														1
<i>Gammaproteobacteria</i> unclassified	2													
<i>Gemella</i> <i>haemolysans</i>				1										
<i>Gemella</i> <i>morbillozum</i>	2		1	22	305	124			3	110	1	364		6
<i>Gemella</i> <i>sanguinis</i>		4		3								4		9
<i>Gemella</i> unclassified														6
<i>Granulicatella</i> <i>adiacens</i>		2	13	13	2		1				2	5		38
<i>Granulicatella</i> unclassified					2	1				5		4		14
<i>Haemophilus</i> <i>parainfluenzae</i>	2													
<i>Haemophilus</i> sp. HOT 035	2													
<i>Haemophilus</i> unclassified	1		2								2			

<i>Johnsonella</i> sp. HOT 166	8													3
<i>Kingella oralis</i>	11													33
<i>Lachnoanaerobaculum orale</i>														1
<i>Lachnoanaerobaculum</i> sp. HOT 083													1	
<i>Lachnospiraceae</i> unclassified									1				1	2
<i>Lachnospiraceae</i> bacterium HOT 080							1							
<i>Lachnospiraceae</i> bacterium HOT 096													2	7
<i>Lachnospiraceae</i> bacterium HOT 500	10	39	47	46	22	60	44	41	6	36	1	29		109
<i>Lactobacillus</i> unclassified	3												6	30
<i>Lactobacillus catenaformis</i>	1	3	1	19	13	38	255	251	26	95	5			3
<i>Lautropia mirabilis</i>	2													9
<i>Lautropia</i> unclassified														
<i>Leptotrichia hongkongensis</i>			1										3	
<i>Leptotrichia</i> sp. HOT 215														1
<i>Leptotrichia</i> sp. HOT 223													4	5
<i>Leptotrichia</i> sp. HOT 417													1	
<i>Leptotrichia</i> sp. HOT 498							2						14	115
<i>Leptotrichia</i> unclassified	21												77	70
<i>Leptotrichia wadei</i>													7	22
<i>Megasphaera micronuciformis</i>													1	
<i>Megasphaera</i> sp. HOT 123														7
<i>Megasphaera</i> sp. HOT 841								1						
<i>Mobiluncus mulieris</i>														76
<i>Mogibacterium timidum</i>	29					1				103	13			5
<i>Mogibacterium</i> unclassified														9
<i>Mollicutes</i> bacterium HOT 504	14													
<i>Mollicutes</i> bacterium HOT 906	1													
<i>Mycoplasma faucium</i>	3												2	
<i>Mollicutes</i> unclassified	2													
<i>Neisseria bacilliformis</i>	1													
<i>Neisseria elongata</i>													1	
<i>Neisseria oralis</i>					3									
<i>Neisseria</i> unclassified	7	4	4	1										46
<i>Olsenella uli</i>													1	
<i>Oribacterium sinus</i>		12	1		10	3	1	4		2			4	8







Total

2996 3062 3710 3609 2646 3553 3858 3610 3110 3716 2395 3669 3115 3823