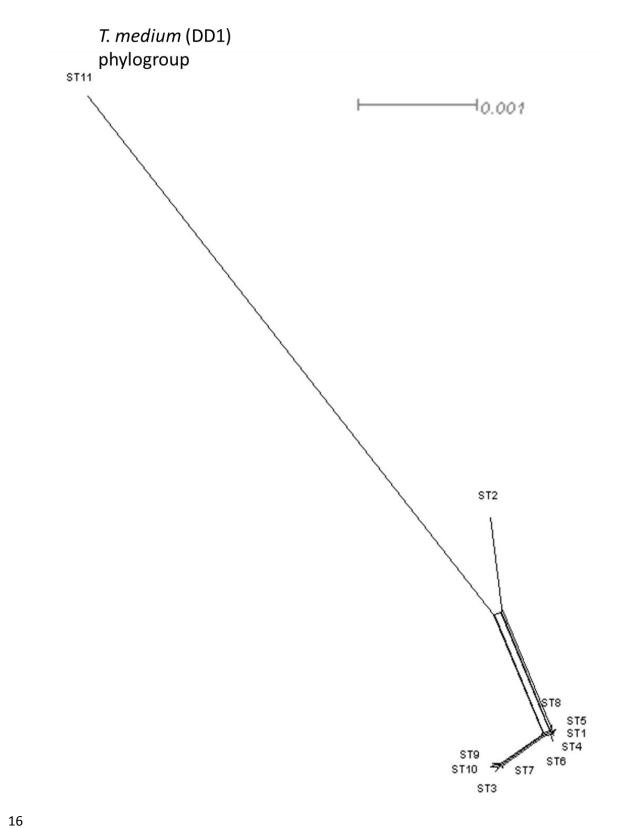


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0.05

- 2
- 3 Figure S1. Treponeme phylogenetic tree based on 16S rRNA gene sequences. A
- 4 maximum likelihood tree (bootstrapped 10,000 times) for comparison of the 16S

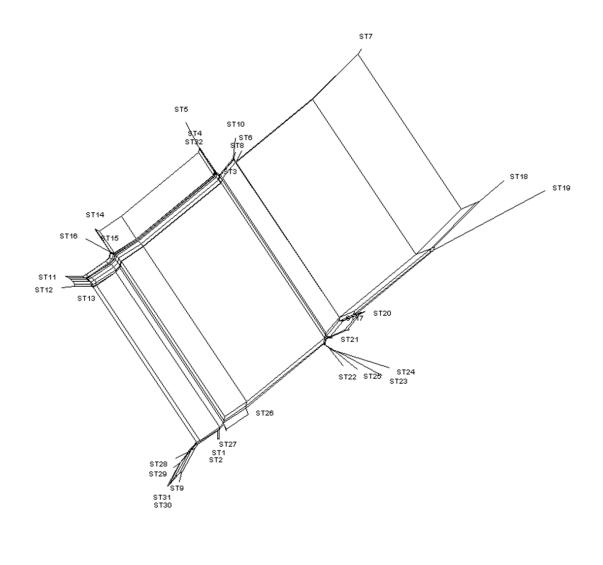
5	rRNA gene of the treponeme sequences isolated in this study. (For clarity, bootstrap
6	values below 65 were removed). Genbank numbers for each individual isolate can be
7	found in Tables 1, 2 and 3. For simplicity, due to the large number of samples in this
8	study, sequences which have an identical 16S rRNA gene and from the same host
9	species have been grouped together.
10	Key: DD1, DD2 and DD3 refer to the DD treponeme phylogroups, where DD1 is
11	Treponema medium/Treponema vincentii phylogroup, DD2 is Treponema
12	phagedenis phylogroup and DD3 is <i>T. pedis</i> phylogroup.
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17

T. phagedenis (DD2) phylogroup





19

T. pedis phylogroup

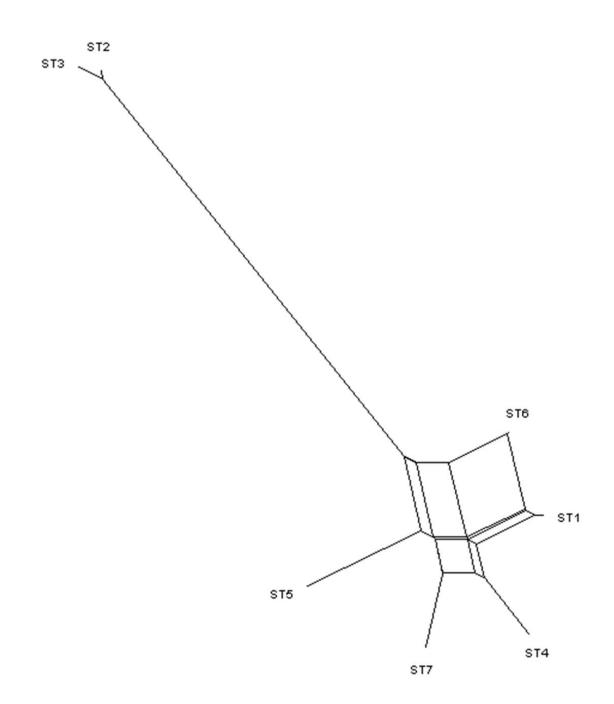


Figure S2. Splits graphs showing recombination between isolates from the three
phylogroups examined in this study. Key: DD1, DD2 and DD3 refer to the DD
treponeme phylogroups, where DD1 is *Treponema medium* phylogroup, DD2 is *Treponema phagedenis* phylogroup and DD3 is *T. pedis* phylogroup.

	<i>T. medium</i> (DD1) phylogroup (n= 34)			T. phagedenis (DD2) phylogroup (n= 70)			<i>T. pedis</i> (DD3) phylogroup (n=17)		
locus	Number of positive selection sites	Number of negative selection sites	d _N /ds	Number of positive selection sites	Number of negative selection sites	d _N /ds	Number of positive selection sites	Number of negative selection sites	d _N /d _S
groEL	0	0	5.000E-09	0	0	6.950E-01	0	0	5.000E-09
recA	0	0	5.238E-03	0	0	1.682E-01	0	0	2.782E-02
glpК	0	0	7.409E-02	0	0	7.269E-01	0	0	5.000E-09
adK	0	2 (86, 92)	7.974E-02	0	0	2.532E-01	0	0	1.168E-01
gdh	0	0	5.639E-02	0	0	4.386E-02	0	1 (162)	8.778E-02
pyrG	0	2 (91, 96)	3.206E-02	0	0	1.094E-01	0	1 (142)	5.000E-09
rplB	0	1 (78)	1.071E-02	0	0	5.000E-09	0	1 (110)	5.000E-09

Table S1. Analysis of selection pressures on individual genes. d_N/d_S is the ratio of non-synonymous substitutions per non-synonymous site to synonymous substitutions per synonymous site.