

Table S2 Number of connections

Phylum	No. of positive interactions			
	Alaska	Germany	Africa	
Proteobacteria	24	15	16	16
TM7	3	5	3	3
Firmicutes	23	19	19	19
Actinobacteria	7	1	1	1
Fusobacterium	4	8	7	7
Bacteroidetes	11	10	14	14
Total	72	58	60	

Phylum	No. of negative interactions			
	Alaska	Germany	Africa	
Proteobacteria	30	19	14	14
TM7	2	2	0	0
Firmicutes	37	30	5	5
Actinobacteria	9	8	2	2
Fusobacterium	7	5	1	1
Bacteroidetes	11	8	2	2
Total	96	72	24	

Phylum	(Positive - Negative) interactions			
	Alaska	Germany	Africa	
Proteobacteria	-6	-4	2	2
TM7	1	3	3	3
Firmicutes	-14	-11	14	14
Actinobacteria	-2	-7	-1	-1
Fusobacterium	-3	3	6	6
Bacteroidetes	0	2	12	12
Total	-24	-14	36	