

Table S2. The correlation coefficients between the relative abundance of OTUs and the values of rumen fermentation parameters

OTUs	genus	Acerate	Propionate	Butyrate	TVFA	NH ₃ N	pH
OTU1616	BF311	-0.533	-0.133	-0.017	-0.600	-0.567	0.583
OTU520	Prevotella	-0.350	0.233	-0.317	-0.267	0.050	0.067
OTU834	Bacteria	-0.192	-0.025	0.310	-0.276	-0.686	0.527
OTU757	Prevotella	-0.167	-0.867	-0.350	-0.200	0.400	-0.450
OTU775	Prevotellaceae	-0.150	-0.467	-0.300	-0.100	0.083	-0.483
OTU1683	Bacteroidia	-0.126	-0.402	-0.360	-0.151	-0.360	0.243
OTU1484	Bacteroidales	-0.050	-0.633	-0.117	-0.100	0.033	-0.367
OTU1383	Bacteria	-0.025	0.435	0.259	0.000	-0.276	0.477
OTU724	Treponema	-0.017	-0.600	-0.033	-0.033	0.533	-0.583
OTU968	Clostridiales	-0.017	-0.067	0.150	-0.067	-0.283	0.217
OTU753	Treponema	0.000	-0.267	-0.383	0.050	0.583	-0.567
OTU885	Treponema	0.000	-0.267	-0.383	0.050	0.583	-0.567
OTU1831	BS11	0.017	0.289	0.175	0.017	-0.481	0.210
OTU1986	Paraprevotellaceae	0.033	-0.600	0.383	-0.033	-0.267	-0.200
OTU655	Bacteria	0.033	0.600	0.133	0.000	-0.317	0.667
OTU935	Prevotella	0.050	-0.217	-0.283	0.083	-0.017	-0.200
OTU928	Clostridiales	0.050	0.333	0.233	-0.017	-0.383	0.467
OTU864	Christensenellaceae	0.050	0.333	0.233	-0.017	-0.383	0.467
OTU2238	Ruminococcus	0.067	-0.133	-0.083	0.083	0.183	0.017
OTU1634	BS11	0.109	0.720	0.159	0.151	-0.360	0.410
OTU854	Fibrobacter	0.117	-0.250	-0.183	0.000	0.533	-0.167
OTU919	Bacteria	0.133	-0.017	0.633	0.117	-0.450	-0.083
OTU966	Clostridiales	0.133	0.017	0.433	0.033	-0.183	0.350
OTU760	Succinivibrio	0.153	0.271	-0.339	0.271	0.136	-0.119
OTU2275	Treponema	0.168	-0.025	-0.563	0.227	0.555	-0.294
OTU774	Treponema	0.176	-0.310	-0.142	0.192	0.594	-0.678
OTU910	Treponema	0.200	0.467	0.050	0.283	-0.100	-0.233
OTU798	Lachnospiraceae	0.201	0.092	-0.025	0.234	0.360	-0.360
OTU1529	Treponema	0.217	-0.400	0.117	0.167	0.383	-0.367
OTU2728	RF16	0.217	-0.133	-0.083	0.133	0.217	0.167
OTU768	Prevotella	0.233	-0.433	-0.033	0.267	0.633	-0.867
OTU509	Ruminococcus	0.283	0.000	-0.533	0.367	0.633	-0.483
OTU835	Fibrobacter	0.286	-0.336	-0.168	0.202	0.723	-0.261
OTU436	RFP12	0.317	0.517	0.233	0.283	0.017	0.183
OTU931	Succinivibrionaceae	0.333	-0.133	-0.350	0.350	0.383	-0.350
OTU531	Ruminobacter	0.333	-0.217	0.433	0.233	-0.267	-0.033
OTU856	Fibrobacter	0.333	0.033	0.483	0.267	-0.100	-0.300
OTU640	Treponema	0.350	-0.183	-0.183	0.283	0.833	-0.350
OTU1507	Anaeroplasma	0.351	-0.092	0.293	0.335	0.268	-0.226
OTU908	Ruminococcus	0.367	-0.200	-0.017	0.267	0.567	-0.067
OTU533	Prevotella	0.383	0.250	-0.150	0.450	0.567	-0.483
OTU519	Prevotella	0.383	-0.267	-0.300	0.367	0.450	-0.383
OTU790	Prevotella	0.400	-0.233	-0.333	0.417	0.550	-0.417
OTU219	Bacteria	0.450	-0.233	0.267	0.400	0.233	-0.150
OTU2257	Bacteria	0.483	-0.117	0.183	0.433	0.150	0.033
OTU442	Ruminococcus	0.633	0.000	0.033	0.600	0.617	-0.467
OTU539	Prevotella	0.650	-0.217	0.350	0.567	0.200	-0.200

OTU1800	Prevotella	0.667	-0.117	-0.217	0.633	0.533	-0.333
OTU516	Prevotella	0.667	0.017	-0.100	0.683	0.383	-0.467
OTU1187	Anaeroplasma	0.667	0.117	0.067	0.717	0.550	-0.483