

Pair of variables	Source=experimental group The Spearman rho's rank correlation results; $p < 0.05000$		
	R_s Spearman	t(N-2)	p
Methanogenic archaea (log10) & Methanogenic archaea (log10)			
Methanogenic archaea (log10) & Acetogens (log10)			
Methanogenic archaea (log10) & Sulfate-reducing bacteria (log10)			
Methanogenic archaea (log10) & Hydrogenase utilizers (log10)			
Methanogenic archaea (log10) & <i>L. salivarius</i> (log10)			
Methanogenic archaea (log10) & <i>C. jejuni</i> (log10)			
Acetogens (log10) & Methanogenic archaea (log10)			
Acetogens (log10) & Acetogens (log10)			
Acetogens (log10) & Sulfate-reducing bacteria (log10)			
Acetogens (log10) & Hydrogenase utilizers (log10)	-0.032453	-0.23414	0.815794
Acetogens (log10) & <i>L. salivarius</i> (log10)	0.188607	1.38492	0.171991
Acetogens (log10) & <i>C. jejuni</i> (log10)	0.189484	1.39160	0.169969
Sulfate-reducing bacteria (log10) & Methanogenic archaea (log10)			
Sulfate-reducing bacteria (log10) & Acetogens (log10)			
Sulfate-reducing bacteria (log10) & Sulfate-reducing bacteria (log10)			
Sulfate-reducing bacteria (log10) & Hydrogenase utilizers (log10)			
Sulfate-reducing bacteria (log10) & <i>L. salivarius</i> (log10)			
Sulfate-reducing bacteria (log10) & <i>C. jejuni</i> (log10)			
Hydrogenase utilizers (log10) & Methanogenic archaea (log10)			
Hydrogenase utilizers (log10) & Acetogens (log10)	-0.032453	-0.23414	0.815794
Hydrogenase utilizers (log10) & Sulfate-reducing bacteria (log10)			
Hydrogenase utilizers (log10) & Hydrogenase utilizers (log10)			
Hydrogenase utilizers (log10) & <i>L. salivarius</i> (log10)	-0.531545	-4.52525	0.000035
Hydrogenase utilizers (log10) & <i>C. jejuni</i> (log10)	-0.080068	-0.57924	0.564930
<i>L. salivarius</i> (log10) & Methanogenic archaea (log10)			
<i>L. salivarius</i> (log10) & Acetogens (log10)	0.188607	1.38492	0.171991
<i>L. salivarius</i> (log10) & Sulfate-reducing bacteria (log10)			
<i>L. salivarius</i> (log10) & Hydrogenase utilizers (log10)	-0.531545	-4.52525	0.000035
<i>L. salivarius</i> (log10) & <i>L. salivarius</i> (log10)			
<i>L. salivarius</i> (log10) & <i>C. jejuni</i> (log10)	0.074914	0.54173	0.590317
<i>C. jejuni</i> (log10) & Methanogenic archaea (log10)			
<i>C. jejuni</i> (log10) & Acetogens (log10)	0.189484	1.39160	0.169969
<i>C. jejuni</i> (log10) & Sulfate-reducing bacteria (log10)			
<i>C. jejuni</i> (log10) & Hydrogenase utilizers (log10)	-0.080068	-0.57924	0.564930
<i>C. jejuni</i> (log10) & <i>L. salivarius</i> (log10)	0.074914	0.54173	0.590317
<i>C. jejuni</i> (log10) & <i>C. jejuni</i> (log10)			