Table 1 showing the difference in abundance of major phyla and families in diarrheal and non-diarrheal groups

Phyla	Actinobacteria	Proteobacteria	Firmicutes	Bacteroidetes	Verrucomicrobia	Fusobacteria	TM7	Tenericutes	Synergistetes
Diarrheal	17.122	21.7584	51.97764	7.72244	0.65012	0.20918	0.20682	0.00868	**0.00126**
Non-diarrheal	12.124	3.01725652	42.21951	41.7104	0.6184304	0.013356522	0.02928	0.22083	**0.0110043**
t-test	0.5894	6.74676.	1.17297	-4.53844	0.02848	3.741	2.11332	-0.93385	**-0.69884**
p-value	0.5606	< .00001	0.251443	0.000114	0.977495	0.000915	0.04433	0.358973	**0.490857**
Families	**Lachnospiraceae**	**Lactobacillaceae**	**Erysipelotrichaceae**	**Prevotellaceae**	**Streptococcaceae**	**Enterobacteriaceae**	**Coriobacteriaceae**	**Veillonellaceae**	**Ruminococcaceae**
Diarrheal	1.682	0.28276	1.370	0.361	30.1609	9.6501	1.409	1.22158	8.38546
Non-diarrheal	5.724747826	0.335078261	6.5671391 3	27.1799	1.724026087	2.0259	4.643834783	7.26865217 4	17.3614087
t-test	-2.473	-0.096	-1.334	-3.065	4.710	4.248	-1.509	-2.1869	-1.72
p- value	**.010 significant**	**.462303**	**.0968 significant**	**.00502 significant**	**.000036 significant**	**.000122 significnt**	**.0716**	**.01896 significant**	**.048693 significant**

Table 2 showing the correlation between different families in diarrheal and non-diarrheal groups

	Prevotellaceae Vs Streptococcaceae	Prevotellaceae Vs Enterobacteriaceae	Lachnospiraceae Vs Enterobacteriaceae	Lachnospiraceae Vs Streptococcaceae	Enterobacteriaceae vs Ruminococcaceae
Diarrheal					
R	-0.4897	-0.3172.	-0.3548	-0.7362	**-0.1944**
p-value	.4132	0.6	0.559	0.156	**0.75**
Non-diarrheal					
R	0.1198	0.2399	-0.4426	-0.288	**-0.2575**
p-value	**0.586**	**.270**	**0.03 significant**	**0.183**	**0.23**