

16S rRNA gene amplicon sequencing data of the Iron Quadrangle ferruginous caves (Brazil) shows the importance of conserving this singular and threatened geosystem

Short title: 16S rRNA gene amplicon sequencing of ferruginous caves

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Supplementary Table S2. Beta-Diversity indices analysis.

ANOSIM - origin by cave

	Ceiling vs Floor		Cave 1		Cave 2		Cave 5		Cave 6		Cave 8	
	p-value	q-value	p-value	q-value	p-value	q-value	p-value	q-value	p-value	q-value	p-value	q-value
Aitchison	0.007	0.007	0.342	0.342	0.072	0.072	0.900	0.900	0.212	0.212	1,000	1,000
Bray Curtis	0.007	0.007	0.331	0.331	0.100	0.100	1,000	1,000	0.302	0.302	1,000	1,000
Euclidean	0.011	0.011	0.326	0.326	0.093	0.093	0.492	0.492	0.900	0.900	1,000	1,000
Unweighted Unifrac	0.010	0.010	0.343	0.343	0.102	0.102	1,000	1,000	0.291	0.291	1,000	1,000
Weighted Unifrac	0.008	0.008	0.343	0.343	0.109	0.109	0.808	0.808	0.418	0.418	0.657	0.657

Note 1: Biofilm was not considered for these analysis; Note 2: For each cave, we compared ceiling vs floor; More information about ANOSIM: <https://sites.google.com/site/mb3gustame/hypothesis-tests/anosim>

PERMANOVA - origin by cave

	Ceiling vs Floor		Cave 1		Cave 2		Cave 5		Cave 6		Cave 8	
	p-value	q-value	p-value	q-value	p-value	q-value	p-value	q-value	p-value	q-value	p-value	q-value
Aitchison	0.006	0.006	0.362	0.362	0.113	0.113	0.806	0.806	0.199	0.199	0.649	0.649
Bray Curtis	0.011	0.011	0.352	0.352	0.103	0.103	0.612	0.612	0.194	0.194	0.673	0.673
Euclidean	0.013	0.013	0.332	0.332	0.102	0.102	0.312	0.312	0.596	0.596	0.642	0.642
Unweighted Unifrac	0.016	0.016	0.323	0.323	0.103	0.103	0.711	0.711	0.182	0.182	1,000	1,000
Weighted Unifrac	0.019	0.019	0.346	0.346	0.102	0.102	0.508	0.508	0.202	0.202	0.679	0.679

Note 1: Biofilm was not considered for these analysis; Note 2: For each cave, we compared ceiling vs floor; More information about PERMANOVA: <https://sites.google.com/site/mb3gustame/hypothesis-tests/manova/npmanova>.

Note: The caves 3, 4 and 7 were not included because the analysis requires at least two samples within a group to calculate the distance within a group.