

Table S1. Relative abundance of the microbial community of site FAV2 in Pantelleria Island based on 16S rRNA gene sequences retrieved from the metagenome. Values are expressed in % and results of both DNA extraction method (CTAB and Power Soil kit) are shown separately.

	1-10 cm		10-15 cm		15-20 cm	
	CTAB	PS kit	CTAB	PS kit	CTAB	PS kit
Archaea	45	18	47	55	73	60
Bacteria	55	82	53	45	27	40
Archaea						
Crenarchaeota	0	0	0	4	0	0
Euryarchaeota	65	48	68	59	92	90
Thaumarchaeota	35	52	32	37	8	10
Bacteria						
Acidobacteria	4.8	7.7	0.0	0.0	2.4	15.6
Actinobacteria	14.3	20.7	6.7	26.6	1.5	22.2
Chloroflexi	31.4	40.9	36.6	31.5	11.2	24.3
Firmicutes	33.0	13.6	33.3	18.2	62.9	17.6
Proteobacteria	5.8	4.2	6.2	7.0	11.9	4.6
Verrucomicrobia	8.4	6.0	14.5	9.1	8.6	6.6
Other	2.3	6.8	2.7	7.6	1.6	9.2
Chloroflexi						
AKIW781	5.4	0.0	0.0	3.9	0.0	3.8
Ktedonobacteraceae	61.9	88.2	72.9	46.4	69.6	58.4
Thermobaculaceae	0.0	2.1	0.0	0.0	0.0	0.0
Uncultured	32.7	9.7	27.1	49.7	30.4	37.8
Firmicutes						
Bacillaceae	79.7	100.0	60.8	22.9	30.4	84.3
Family XVII	0.0	0.0	3.2	28.1	0.0	0.0
Paenibacillaceae	0.0	0.0	6.6	24.5	0.0	0.0
Thermoanaerobacteraceae	20.3	0.0	23.6	0.0	61.8	5.2
TSAC18	0.0	0.0	0.0	0.0	1.2	0.0
TTA-B61	0.0	0.0	0.0	0.0	1.0	0.0
Uncultured	0.0	0.0	5.8	24.5	5.6	10.5
Proteobacteria						
Burkholderiaceae	0.0	12.9	13.9	38.5	6.5	0.0
Methylococcaceae	0.0	36.6	38.7	0.0	0.0	100.0
Methylomonaceae	42.9	0.0	0.0	0.0	21.5	0.0
Rhizobiaceae	8.3	12.9	20.2	23.0	18.7	0.0
Sphingomonadaceae	48.8	37.6	0.0	38.5	16.1	0.0
Xanthomonadaceae	0.0	0.0	27.2	0.0	37.1	0.0
Verrucomicrobia						
Chthoniobacteraceae	14.7	19.2	8.4	18.8	0.0	58.2
Methylacidiphilaceae	85.3	80.8	91.6	81.2	100.0	41.8