

SUPPLEMENTARY MATERIAL

Lack of microbial diversity in an extreme Mars analog setting: Poás volcano, Costa Rica

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ASTROBIOLOGY

Table S1. Distribution and taxonomy of OTUs obtained from Borinquen Hot Springs source pool (Rincón de la Vieja volcano). Only OTUs with > 0.2% of the total reads are included. We attribute the occurrence of trace amounts of *Lactobacillus* to external contamination.

OTU ID	# Quality Controlled Reads	% of Total Reads	Taxonomy (family/genus)	BLAST Alignment Results			
				Type Strain of Top Match	Accession #	Sequence ID	Sequence Coverage
OTU 59	17288	96.12	Thermoproteaceae/ Pyrobaculum	Thermoproteus thermophilus strain CBA1502 16S	NR 136789	99.21	100
OTU 802	194	1.08	Thermoproteaceae/ NA	Vulcanisaeta souniana strain IC-059	NR 028628	98.81	100
OTU 713	88	0.49	Lactobacillaceae/ Lactobacillus	Lactobacillus crispatus strain DSM 20584	NR 119274	100	100
OTU 2685	53	0.29	Sulfolobaceae/NA	Sulfolobus tengchongensis strain RT8-4	NR 115150	93.28	100
OTU 2167	41	0.23	Lactobacillaceae/ Lactobacillus	Lactobacillus iners strain DSM 13335	NR 036982	100	99

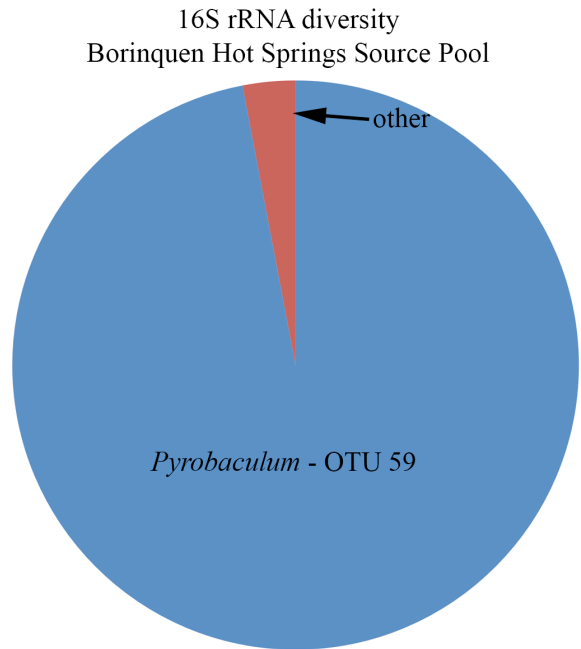


Figure S1. Bacterial and Archaeal diversity at Borinquen Hot Springs source pool, Rincón de la Vieja volcano, Costa Rica.



Figure S2. Sampling location at Borinquen Hot Springs source pool, Rincón de la Vieja volcano, Costa Rica.

Sequence reads for Laguna Caliente and Borinquen Hot Springs:

Laguna Caliente, Poás volcano:

>OTU_63

TACGAAGGGGGCTAGCGTTGCTCGGAATGACTGGGCGTAAAGGGCGCGTAGGCGGC
TTACATAGTTAGGCGTGAAATTCCTGGGCTCAACCTGGGGACTGCGTCTAATACATG
TAGGCTTGAGTGTGAAAGAGGGTCGTGGAATTTCCAGTGTAGAGGTGAAATTCGTA
GATATTGAAAGAACACCGGTGGCGAAGGCGGCGACCTGGTTCATTACTGACGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG

>OTU_2111

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CTGCACAGTCAGGCGTGAAATTCCTGGGCTTAACCTGGGGACTGCGTCTGAGACGTG
TGATCTAGAGTGAGGAAGAGGGTCGTGGAATTTCCAGTGTAGAGGTGAAATTCGTA
GATATTGAAAGAACACCGGTGGCGAAGGCGGCGACCTGGTCCTTGACTGACGCTG
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>OTU_214

TACGAGGGGGCAAGCGTTGTTCCGAATTATTGGGCGTAAAGGGTGCCTAGGCGGT
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CGGGCTTGAGTATGGGAGAGGTGAGTGGAAATTTCCGGTGTAGCGGTGAAATGCGTA
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ATGCACGAAAGCTAGGGGAGCAAACAGG

>OTU_5708

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TGGGCTTGAGTGTGAAAGAGGGTCGTGGAATTTCCAGTGTAGAGGTGAAATTCGTA
GATATTGAAAGAACACCGGTGGCGAAGGCGGCGACCTGGTTCATGACTGACGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG

>OTU_2941

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TATGGCTAGAGTTCGGTAGGGGATTGTGGAATTTCCGGTGTAGCGGTGAAATGCGC
AGATATCGGGAGGAACACCAATGGCGAAGGCAGCAATCTGGGCCGATACTGACGCT
GAGGAGCGAAAGCGTGGGGAGCAAACAGG

Borinquen Hot Springs source pool, Rincón de la Vieja volcano:

>OTU_59

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ATAATCCCCGGAGGACCACCAGTGGCGAAAGCGGGCGGCCAGAACGCGCCCCGACG
GTGAGGGGGCGAAAGCCGGGGGAGCAAAGGGG

>OTU_802

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CCGGTAAGTCGTCCCTGAAATCCACGGGCTCAACCCGTGGGCTGGGGACGAAACTG
CCGGGCTTGGGGGCGGGAGAGGCCGAGGGTACTCCCGGGGTAGGGGGCGAAATCCG
ATAATCCCCGGGAGGACCACCAGTGGCGAAGGCGCTCGGCTTGAACGCGCCCCGACGG
TGAGGGGGCGAAAGCTGGGGGAGCAAAGGGG

>OTU_713

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TTTTTCTTGAGTGCAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGGAATGCGTA
GATATATGGAAGAACACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTG
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>OTU_2685

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AGATCCCGGGAGGACCACCAGTGGCGAAAGCGGCCGGCTAGAACGCGCCCCGACGG
TGAGGGGGCGAAAGCCGGGGCAGCAAAGGG

>OTU_2167

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CGAGCTTGAGTACAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGAAATGCGTA
GATATATGGAAGAACACCGGTGGCGAAGGCGGCTCTCTGGTCTGTTACTGACGCTG
AGGCTCGAAAGCATGGGTAGCGAACAGG