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.

<table>
<thead>
<tr>
<th>OTU ID</th>
<th># Quality Controlled Reads</th>
<th>% of Total Reads</th>
<th>Taxonomy (family/genus)</th>
<th>BLAST Alignment Results</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Type Strain of Top Match</td>
</tr>
<tr>
<td>OTU 59</td>
<td>17288</td>
<td>96.12</td>
<td>Thermoproteaceae/Pyrobaculum</td>
<td>Thermoproteus thermophilus strain CBA1502 16S</td>
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<tr>
<td>OTU 802</td>
<td>194</td>
<td>1.08</td>
<td>Thermoproteaceae/NA</td>
<td>Vulcanisaeta souiana strain IC-059</td>
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<tr>
<td>OTU 713</td>
<td>88</td>
<td>0.49</td>
<td>Lactobacillaceae/Lactobacillus</td>
<td>Lactobacillus crispatus strain DSM 20584</td>
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<tr>
<td>OTU 2685</td>
<td>53</td>
<td>0.29</td>
<td>Sulfolobaceae/NA</td>
<td>Sulfolobus tengchongensis strain RT8-4</td>
</tr>
<tr>
<td>OTU 2167</td>
<td>41</td>
<td>0.23</td>
<td>Lactobacillaceae/Lactobacillus</td>
<td>Lactobacillus iners strain DSM 1335</td>
</tr>
</tbody>
</table>
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
TACGAAGGGGGCTAGCGTTGCTCGGAATGACTGGGCGTAAAGGGCGCGTAGGGCGGC
TTACATAGTTAGGCCGTGAATTCCTTGGGCTCAACCTGGGACTGGGCTCTGCTAATACATG
TAGGCTTTGAGTTGCTGTGAATTCCTGGGCTCAACCTGGGGACTGCTTCCAATTACTGTA
GATATTGGAAAGAAACACCCGCTGCGGAAGGCCGGCGCCTGGGCTTGGGAATGAGGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG

>OTU_2111
TACGAAGGGGGCTAGCGTTGCTCGGAATGACTGGGCGTAAAGGGCGCGTAGGGCGGA
CTGCAACAGTCAGCGCTGAATTCCTTGGGCTCAACCTGGGACTGGGCTCTGCTAATACATG
TAGGCTTTGAGTTGCTGTGAATTCCTGGGCTCAACCTGGGGACTGCTTCCAATTACTGTA
GATATTGGAAAGAAACACCCGCTGCGGAAGGCCGGCGCCTGGGCTTGGGAATGAGGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG

>OTU_214
TACGAAGGGGGCTAGCGTTGCTCGGAATGACTGGGCGTAAAGGGCGCGTAGGGCGGT
TGATAAGTCTCAGTCGTGAATTCCTTGGGCTCAACCTGGGACTGGGCTCTGCTAATACATG
CTGGGCTTTGAGTTGCTGTGAATTCCTTGGGCTCAACCTGGGGACTGCTTCCAATTACTGTA
GATATTGGAAAGAAACACCCGCTGCGGAAGGCCGGCGCCTGGGCTTGGGAATGAGGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG

>OTU_5708
TACGAAGGGGGCTAGCGTTGCTCGGAATGACTGGGCGTAAAGGGCGCGTAGGGCGGT
TCATACAGTCAGCGCTGAATTCCTTGGGCTCAACCTGGGACTGGGCTCTGCTAATACATG
TGATAAGTCTCAGTCGTGAATTCCTTGGGCTCAACCTGGGGACTGCTTCCAATTACTGTA
GATATTGGAAAGAAACACCCGCTGCGGAAGGCCGGCGCCTGGGCTTGGGAATGAGGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG

>OTU_2941
TACGTAGGGGCTAGCGTTGCTCGGAATGACTGGGCGTAAAGGGCGCGTAGGGCGGT
TGATAAGTCTCAGTCGTGAATTCCTTGGGCTCAACCTGGGACTGGGCTCTGCTAATACATG
TGATAAGTCTCAGTCGTGAATTCCTTGGGCTCAACCTGGGGACTGCTTCCAATTACTGTA
GATATTGGAAAGAAACACCCGCTGCGGAAGGCCGGCGCCTGGGCTTGGGAATGAGGCTG
AGGCGCGAAAGCGTGGGGAGCAAACAGG
Borinquen Hot Springs source pool, Rincón de la Vieja volcano:

>OTU_59
TACCAGCCCCCGAGTGGTTCAGGATTACTGGGCTTAAAGCGCCCGTAGCCGGCCGGCAAGTCGCTCCTGAAATCCCCGGGCTCAACCCGGGGGCTGGGGGCGATACTGGGGGCTAGGGGGCGGGAGAGGCCGCCGGTACTCCGGGGGTAGGGGCGAAATCCGATAATCCCCGGAGGACCACCAGTGGCGAAAGCGGGCGGCCAGAACGCGCCCGACGGTGAGGGGCGAAAGCCGGGGGAGCAAAGGGG

>OTU_802
TACCAGCCCCCGAGTGGTTCAGGATTACTGGGCTTAAAGCGCCCGTAGCCGGCCGGTAAGTCGTCCCTGAAATCCACGGGCTCAACCCGGGGCTGGGGGACGAAACTGGGGCTTGGGGGCGGGAGAGGCCGAGGGTACTCCCGGGGTAGGGGCGAAATCCGATAATCCCGGGAGGACCACCAGTGGCGAAGTCGCTCGGCTTGAACGCGCCCGACGGTGAGGGGCGAAAGCTGGGGGAGCAAAGGGG

>OTU_713
TACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGAATAAGTCTGATGTGAAAGCCCTCGGCTTAACCGAGAATTGCATCAGAAACTGGAGCTTGAGTACAGAAGAGGAGAGTGGAACTCCATGTGTAGCGGTGAAATGCGTGAATATATGGAAGAACACCGGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGG

>OTU_2685
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>OTU_2167
TACGTAGGTGGCAAGCGTTGTCCGGATTTATTGGGCGTAAAGCGAGCGCAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGG

>OTU_2685
TACCAGCCCCCGAGTGGTTCAGGATTACTGGGCTTAAAGCGCCCGTAGCCGGCCGGTAAGTCGTCCCTGAAATCCCCGGGCTCAACCGGGGAAATGGGGGTGATACTGGGGCTAGGGGGCGGGAGAGGCCGGCGGTACTCCGGGGGTAGGGGCGAAATCCGTAGATCCCGGGAGGACCACCAGTGGCGAAGGCGGCTCTCTGGTCTGCAACTGACGCTGAGGCTCGAAAGCATGGGTAGCGAACAGG

>OTU_2167
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