**S11 Table. Most abundant SVs in the moonmilk from Fetida Cave.a,b,c**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **SV #** | **M-1** | **M-2** | **Taxonomy** | **Best Blast Hit** | **Source** | **Accession no.** | **ID%** |
| 277 | 0.00 | 3.11 | *p\_Chlamydiae; f\_Simkaniaceae* | Uncultured *Chlamydiae* bacterium 2H69 | Raw source freshwater | GU074172 | 99.64 |
| 312 | 0.00 | 2.52 | *p\_Euryarchaeota; g\_Thermoplasma* | Uncultured archaeon YTK10 | Acid mine drainage water | MH057131 | 97.60 |
| 497 | 1.82 | 0.00 | *p\_Actinobacteria; o\_Acidimicrobiales* | Actinobacteria bacterium USS-CCA1 | Abandoned coal mine | MF503098 | 98.63 |
| 933 | 2.45 | 1.90 | *p\_Euryarchaeota; g\_Thermoplasma* | Uncultured archaeon YTK10 | Acid mine drainage water | MH057131 | 98.29 |
| 2353 | 26.78 | 25.40 | *p\_Euryarchaeota; g\_Thermoplasma* | Uncultured archaeon RS09a33 | Frasassi acidic snottite | KC582526 | 98.97 |
| 2401 | 4.20 | 1.02 | *c\_Gammaproteobacteria; g\_Acidithiobacillus* | *Acidithiobacillus thiooxidans* PC30c | Frasassi acidic snottite | KU249609 | 98.63 |
| 2592 | 36.49 | 23.04 | *p\_Euryarchaeota; g\_Thermoplasma* | Uncultured archaeon RS09a33 | Frasassi acidic snottite | KC582526 | 98.63 |
| 2833 | 0.00 | 3.03 | *c\_Gammaproteobacteria; g\_Metallibacterium* | Uncultured prokaryote PC08-64-15 | Frasassi stream biofilm | KM410777 | 96.92 |

a The table shows the SVs > 1% at least in one of the moonmilk samples.

b The SILVA taxonomy is assigned based on a search threshold of 0.8.

c The grey shade differentiates the abundance i.e. black= abundance > 10%. dark grey= abundance>1%. light grey = abundance<1%. white=not detected.