**S1 Table. Description of the different biofilm samples collected from Fetida Cave**

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| **Sample name** | **Cave Site** | **Description** |
| F-stream-1 | Entrance | White water filaments attached at the side walls in a squared water pool close to the cave entrance |
| F-stream-2 | Entrance | White water filaments attached at the side walls of the water stream close to the cave entrance |
| F-float-1 | Inner zone | White water filaments floating on the water table close to the rising H2S-rich fluids location |
| F-float-2 | Inner zone | White water filaments floating on the water table in the cave inner zone |
| F-sed-1 | Inner zone | Sedimented white filaments at the bottom of the water stream close to the rising H2S-rich fluids location |
| F-sed-2 | Inner zone | Sedimented white filaments at the bottom of the water stream in the cave inner zone |
| V-brown-1 | Inner zone | Brown vermiculation taken from the wall at 1.60 m height from the boardwalk close to the rising H2S-rich fluids location |
| V-brown-2 | Inner zone | Brown vermiculation taken from the wall at 1.50 m height from the boardwalk in the cave inner zone |
| V-grey-1 | Inner zone | Grey vermiculation deposit collected on the wall at 1.90 m height from the boardwalk close to the rising H2S-rich fluids location |
| V-grey-2 | Inner zone | Grey vermiculation taken from the wall at 1.70 m height from the boardwalk in the cave inner zone |
| M-1 | Inner zone | Moonmilk deposit sampled on the wall at 1.70 m height from the boardwalk close to the rising H2S-rich fluids location |
| M-2 | Inner zone | Moonmilk deposit sampled from the wall at 1.70 m height from the boardwalk in the cave inner zone |