**SUPPLEMENTARY MATERIAL**

**High-throughput sequencing of fungal communities across the perennial ice block of Scărișoara Ice Cave**

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**Table S1**. Age of ice samples collected from Scarisoara Ice Cave

1 Samples 1200-I and 1500-I were collected at a lower depth than 900-I/O although they are older, due to the inclined layering of the ice block (Perșoiu and Pazdur, 2011); 2 Measured by Accelerator Mass Spectrometry (AMS) as described in Perșoiu and Pazdur, (2011); 3 Perșoiu and others, 2017.

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| --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Depth**  **(cm below surface)1** | **Type of dating** | **14C age** | **Calibrated age** | **Age**  **(cal BP)** | **Age (AD)** |
| **400-O** | 1125.5 | Direct (AMS)2 | 330 ± 50 | AD 1494 – 1532 (20.2%) 1σ  AD 1537 – 1602 (36.35) 1σ  AD 1454 – 1649 (95.4%) 2σ | 400 | 1450 |
| **900-I** | 1345.4 | Direct (AMS)2 | 890 ± 45 | AD 1048 – 1087 (22.7%) 1σ  AD 1150 – 1212 (37.1%) 1σ  AD 1027 – 1225 (95.4%) 2σ | 900 | 1050 |
| **900-O** |
| **1200-I** | 715-800 | Indirect  (from depth-age model)3 | - | AD 730 – 850 | 1161 | 789 |
| **1500-I** | 904-988 | Indirect  (from depth-age model)3 | - | AD 336 – 575 | 1502 | 448 |