

Specimens

*Eucyrtidium cienkowski*  
(Vil325)

*Eucyrtidium acuminatum*  
(Vil496)

*Rhizosphaera trigonacantha*  
(Mge17-81)

*Spongosphaera streptacantha*  
(Mge17-82)

*Extotoxon undulatum*  
(Mge17-9)

*Pterocorys zanclea*  
(Vil490)

*Carpocanium obliqua*  
(Mge17-124)

*Arachnospongos varians*  
(Vil497)

*Tetrapyle octacantha*  
(Vil480)

**rDNA (~3000 bp)**  
PCR amplification  
3 technical replicates

postPCR  
purification

Cloning  
24 reactions

Partial rDNA  
**Sanger sequencing**  
3 primers

Partial rDNA  
**MinION Nanopore**  
Flowcell 9.5, 1D<sup>2</sup> Sequencing

\*Used during last 28h of flowcell live (20h→48h)

**18S-V4 rDNA**  
PCR amplification  
3 technical replicates

postPCR  
purification

18S-V4 rDNA  
Miseq Nano  
2x250pb paired-end  
**Illumina Sequencing**

Nassellaria

Spumellaria