

***Gomphosphaeria aponina* Kützing, 1836**

**Most likely ID:** n.a.

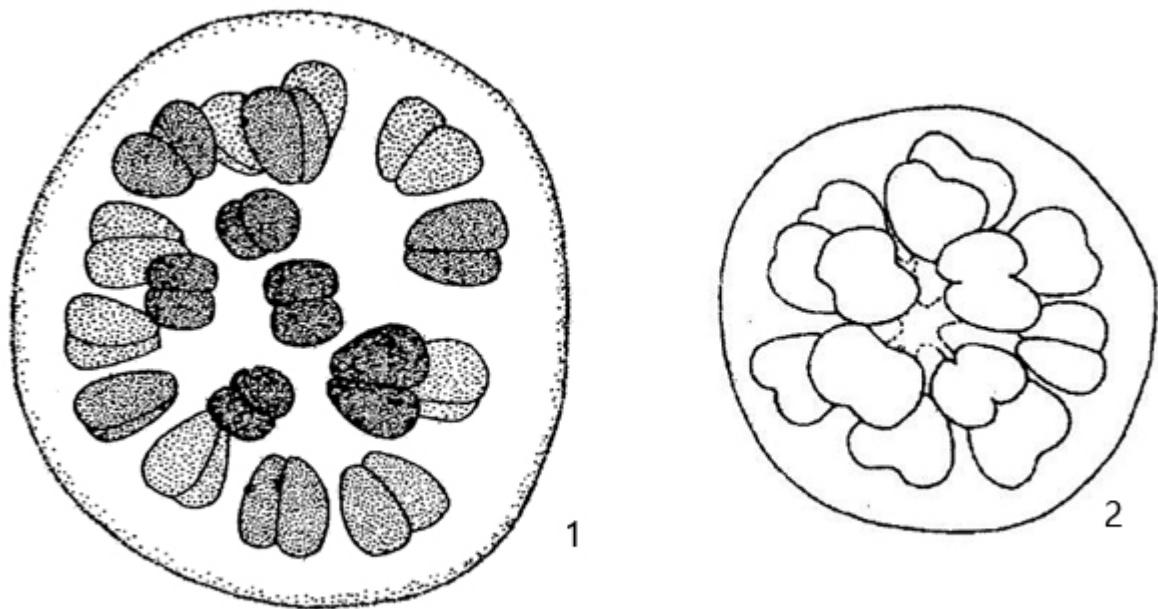
**Synonym:** n.a.

**Sampling location:** [Simmelried](#)

**Phylogenetic tree:** [\*Gomphosphaeria aponina\*](#)

**Diagnosis:**

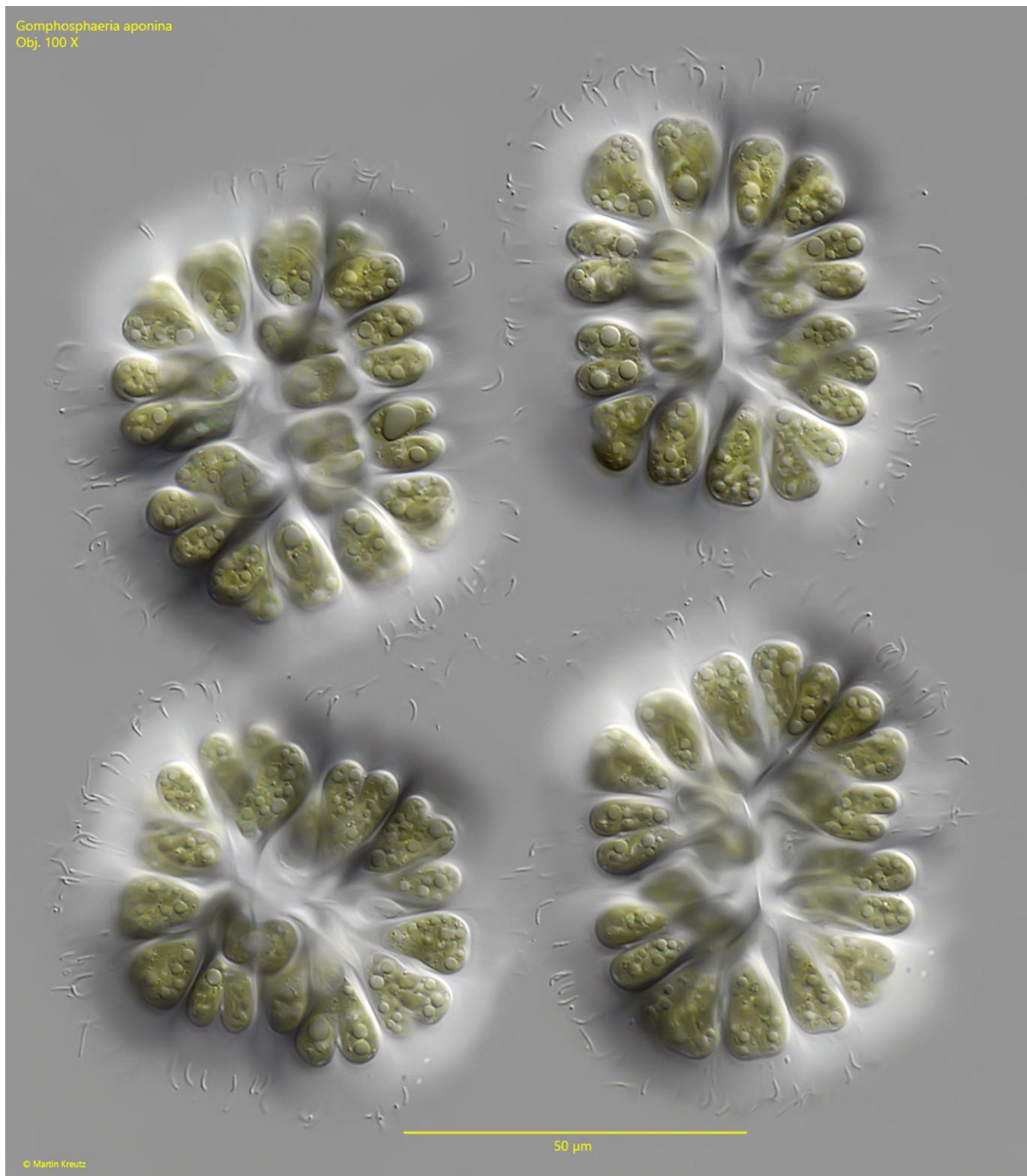
- colonies spherical, ovoid or irregularly
- colonies covered with mucilage
- colonies 50–100 µm in diameter
- cells 6–12 µm long, obovoid or wedge-shaped
- cells closely adjoined after cell division in a cordiform shape
- cells in peripheral layer at distal ends of branched, mucilaginous stalks
- stalks originating in center of colony
- cells are separated from each other



1 = after Smith  
2 = after Whitton

### Gomphosphaeria aponina

I found *Gomphosphaeria aponina* among floating plant masses in the [Simmelried](#). The center of the colony is formed by mucilaginous, branched stalks, at the ends of which are the ovoid or wedge-shaped cells. The cells remain connected after cell division and have a characteristic heart-shaped form (s. fig. 2). This peculiarity makes *Gomphosphaeria aponina* unmistakable. The similar genus *Snowella* (e.g. [Snowella litoralis](#)) also has branched stalks at the ends of which the cells of the colony are located. However, in this genus the cells do not remain connected after division.



**Fig. 1:** *Gomphosphaeria aponina*. Four colonies with a diameter of about 40–50 µm each. The gelatinous sheath covering the colonies is colonized by curved bacteria. Obj. 100 X.

*Gomphosphaeria aponina*  
Obj. 100 X



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**Fig. 2:** *Gomphosphaeria aponina*. D = 84 μm (of colony). A slightly squashed colony. Note the cordiform shaped cells during cell division (arrows) and the branched mucilaginous stalks in the center of the colony. The cells are 10-12 μm long. Obj. 100 X.