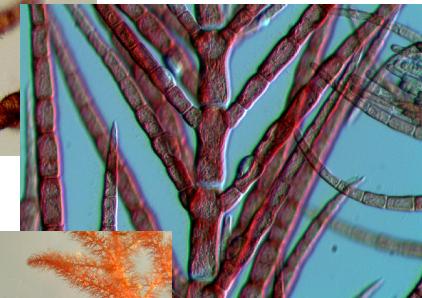
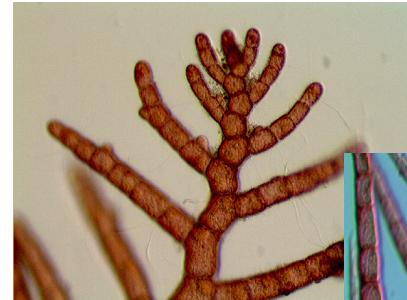


Rhodophyta – Rotalgen der Hochseeinsel Helgoland

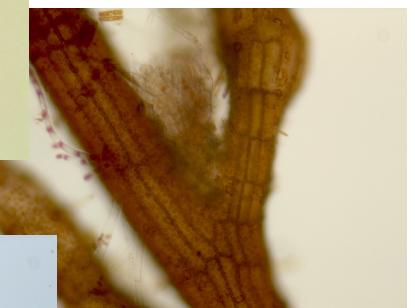
O Callithamnion sp.



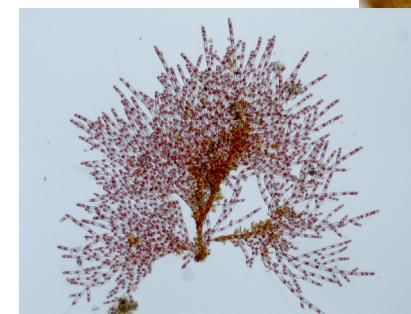
O Brongniartella byssoides



O Polysiphonia urceolata



O Polysiphonia nigrescens

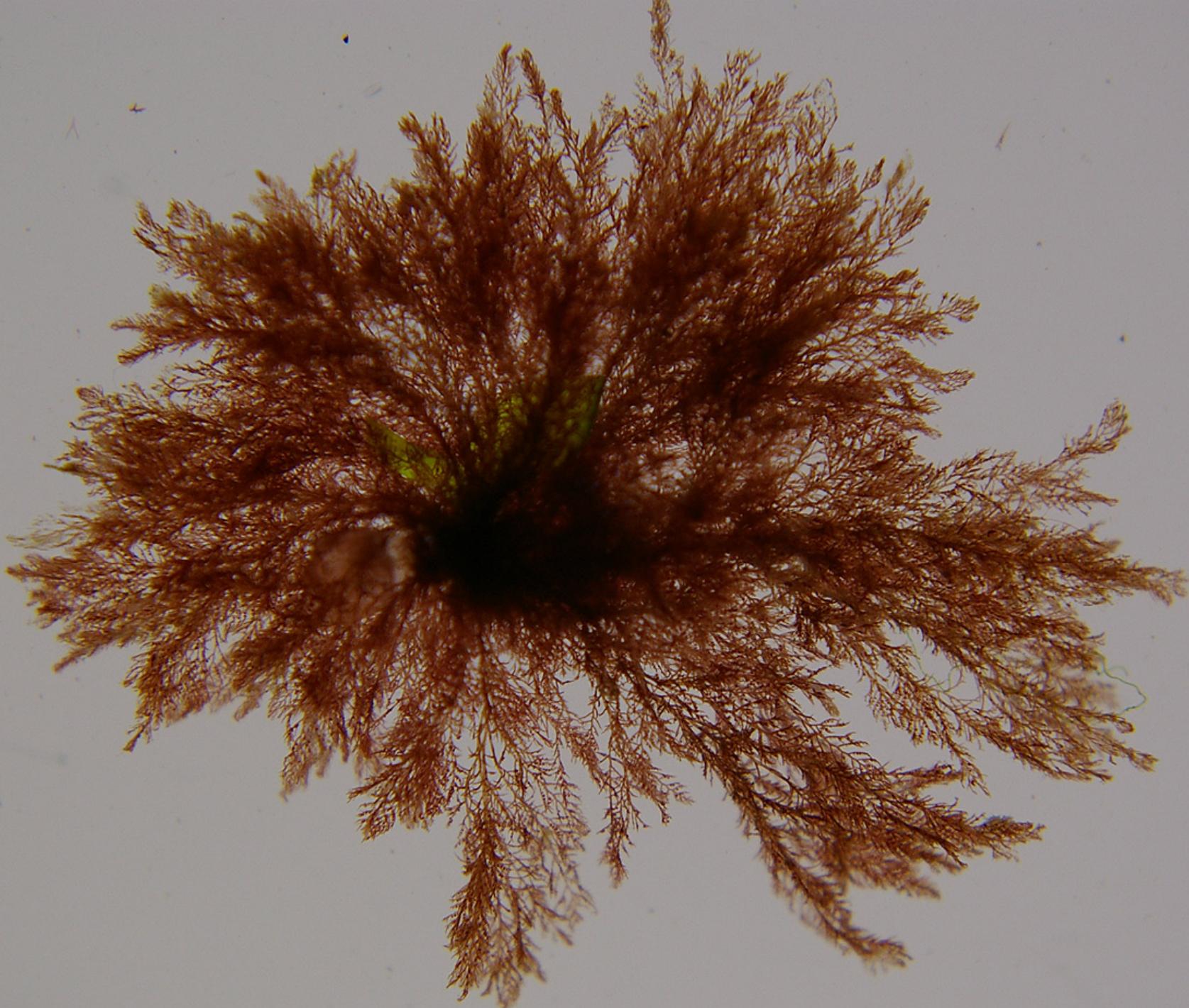


O Acrochaetium sp.



***Callithamnion* sp.**
Habitus

1.5 cm



Callithamnion sp.
Habitus

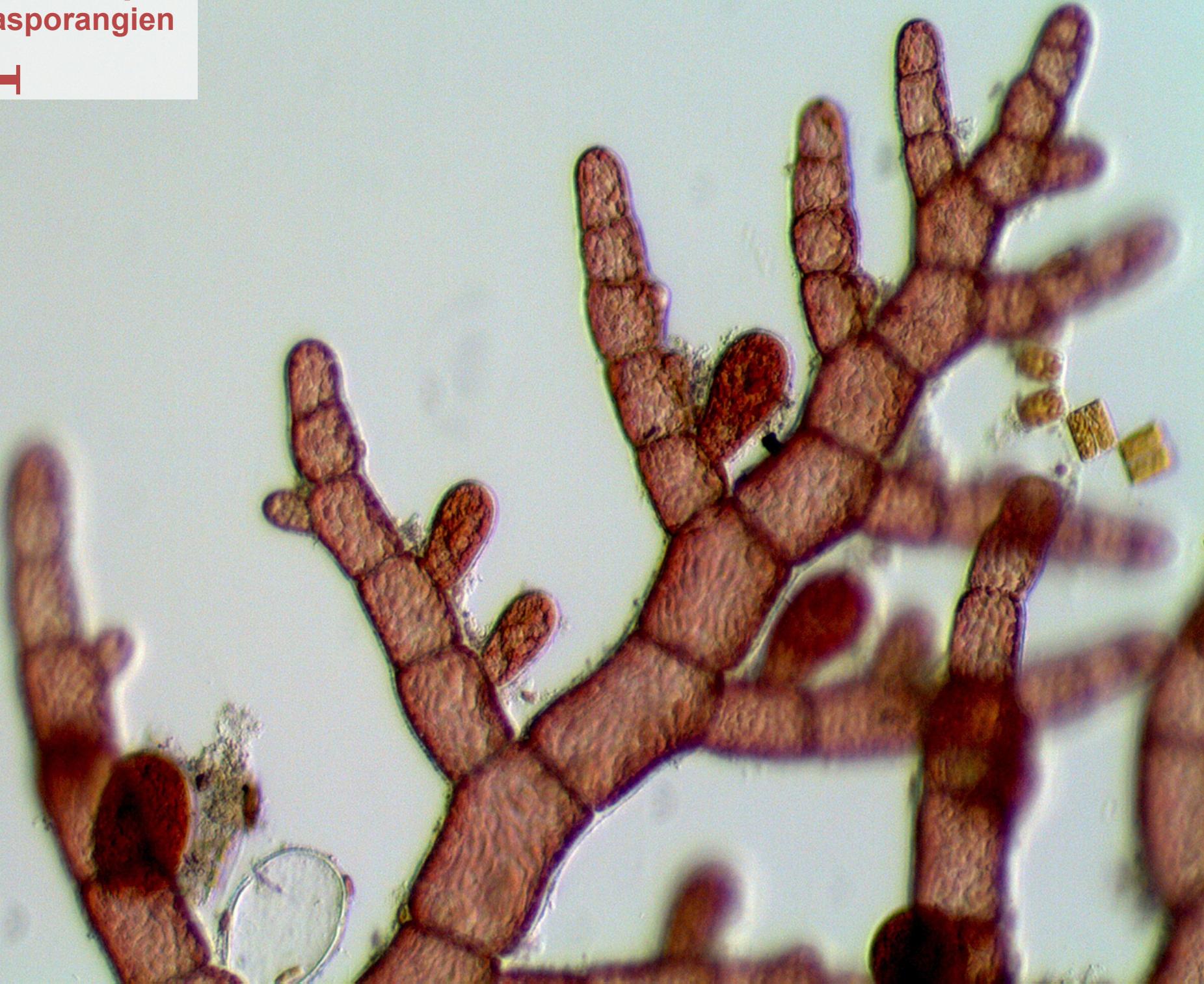
Callithamnion sp.
wechselständige Seitenfäden

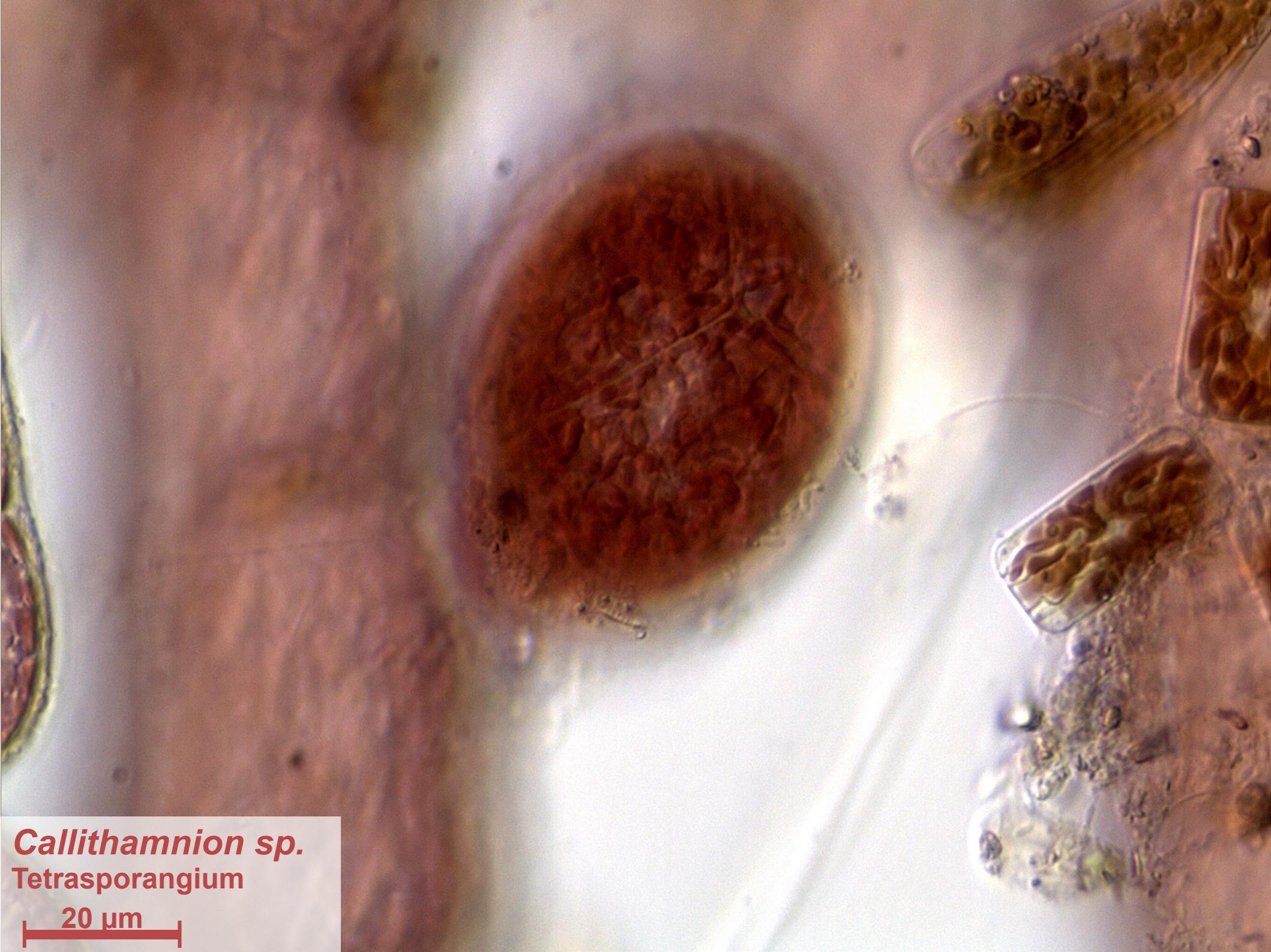
80 µm



Callithamnion sp.
junge Tetrasporangien

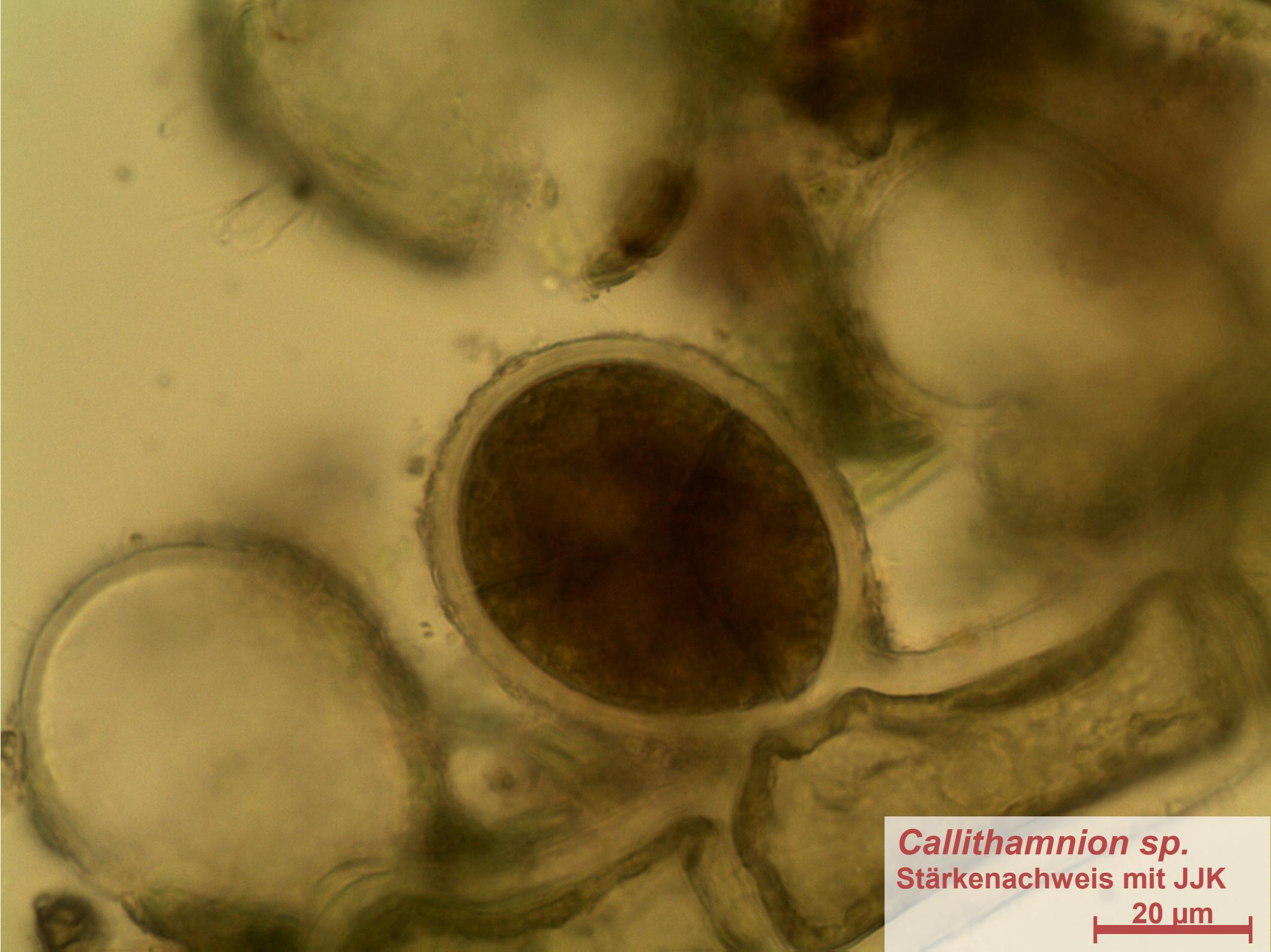
80 µm





Callithamnion sp.
Tetrasporangium

20 μm

A light micrograph showing several large, dark brown, circular starch granules embedded within a translucent, gelatinous matrix. The granules have distinct, irregular edges and varying sizes.

Callithamnion sp.
Stärkenachweis mit JJK

20 µm



Callithamnion sp.
leeres Tetrasporangium

40 μm

Drei Phasen im Generationswechsel

Diplohaplonte Zyklen

heteromorph
oder
isomorph

Spermatangien
(Gametangium mit geißellosen Gameten)

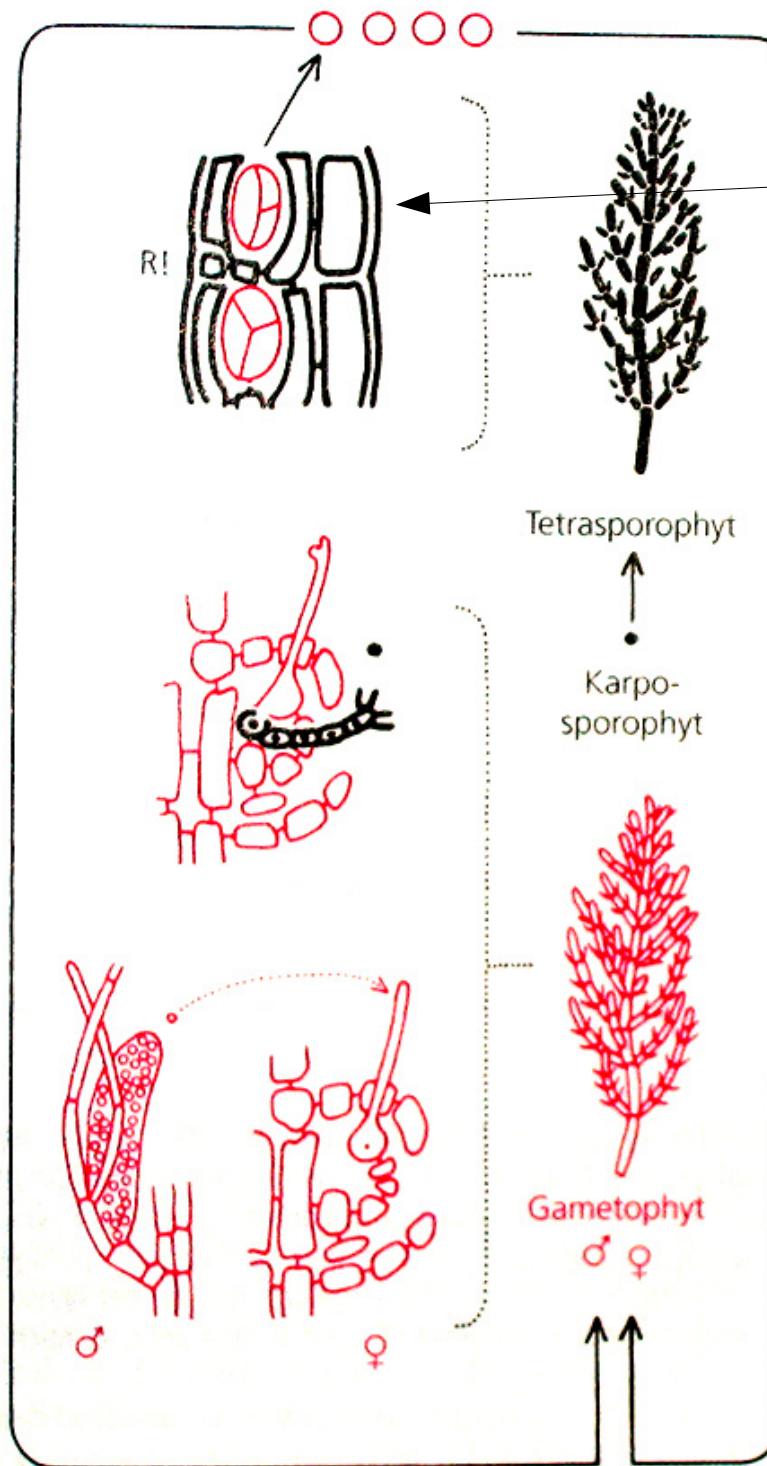
Spermatien
(Geißellose Gameten)

Karpogon
(weibliches Game-
tangium)

Gametophyt
V

Karposporophyt
(= Goniomokarp)
V

Tetrasporophyt



A *Polysiphonia*

diplobiontisch





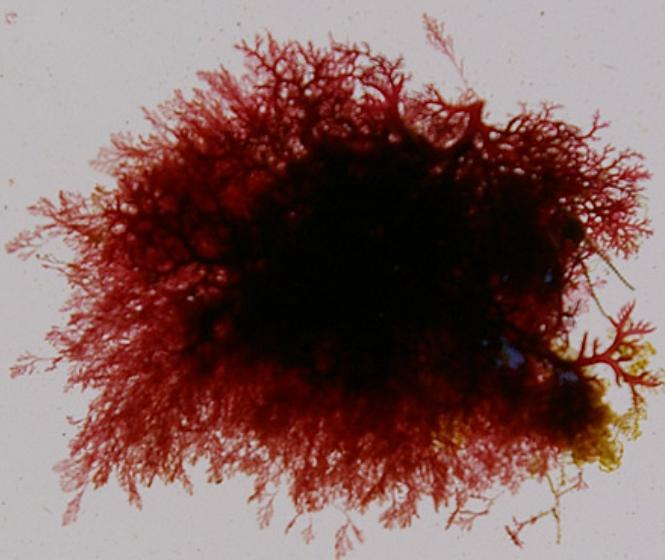
Callithamnion sp.
Rhodoplasten

20 μ m



***Callithamnion* sp.**
Lokalisation von Rhodoplasten
und Zellkernen

20 µm

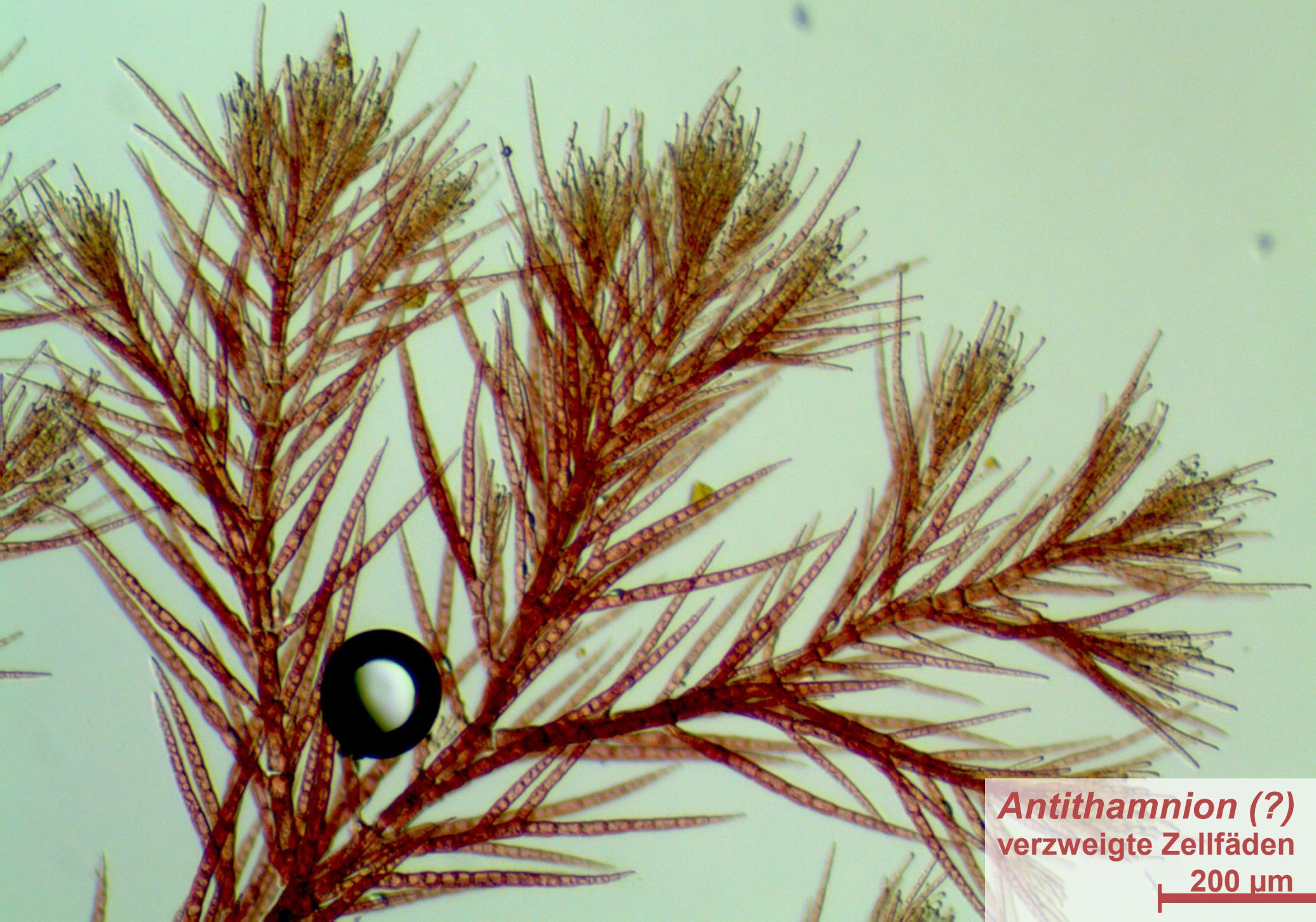


Antithamnion (?)
Habitus

1.5 cm

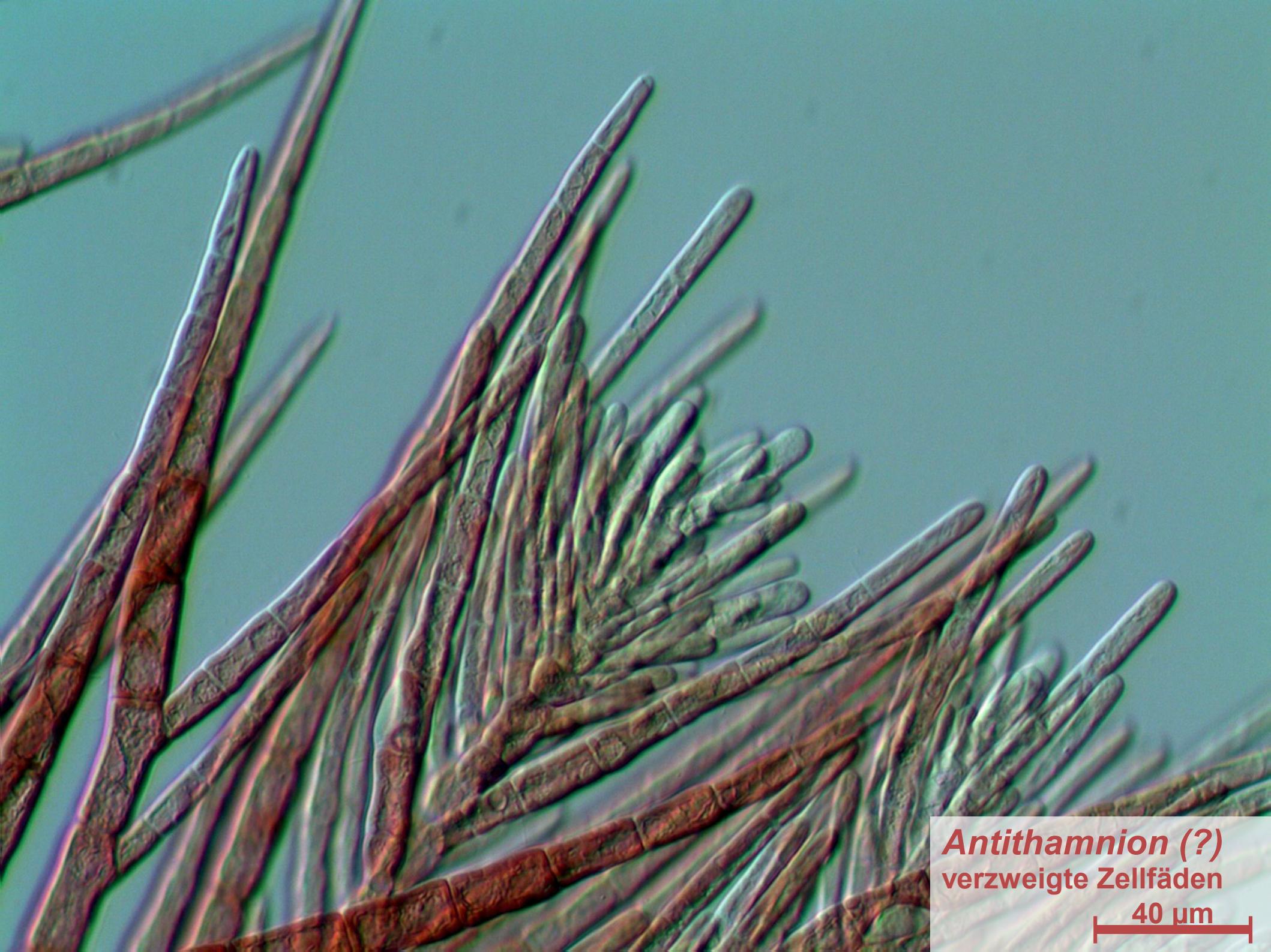


Antithamnion (?)
Habitus



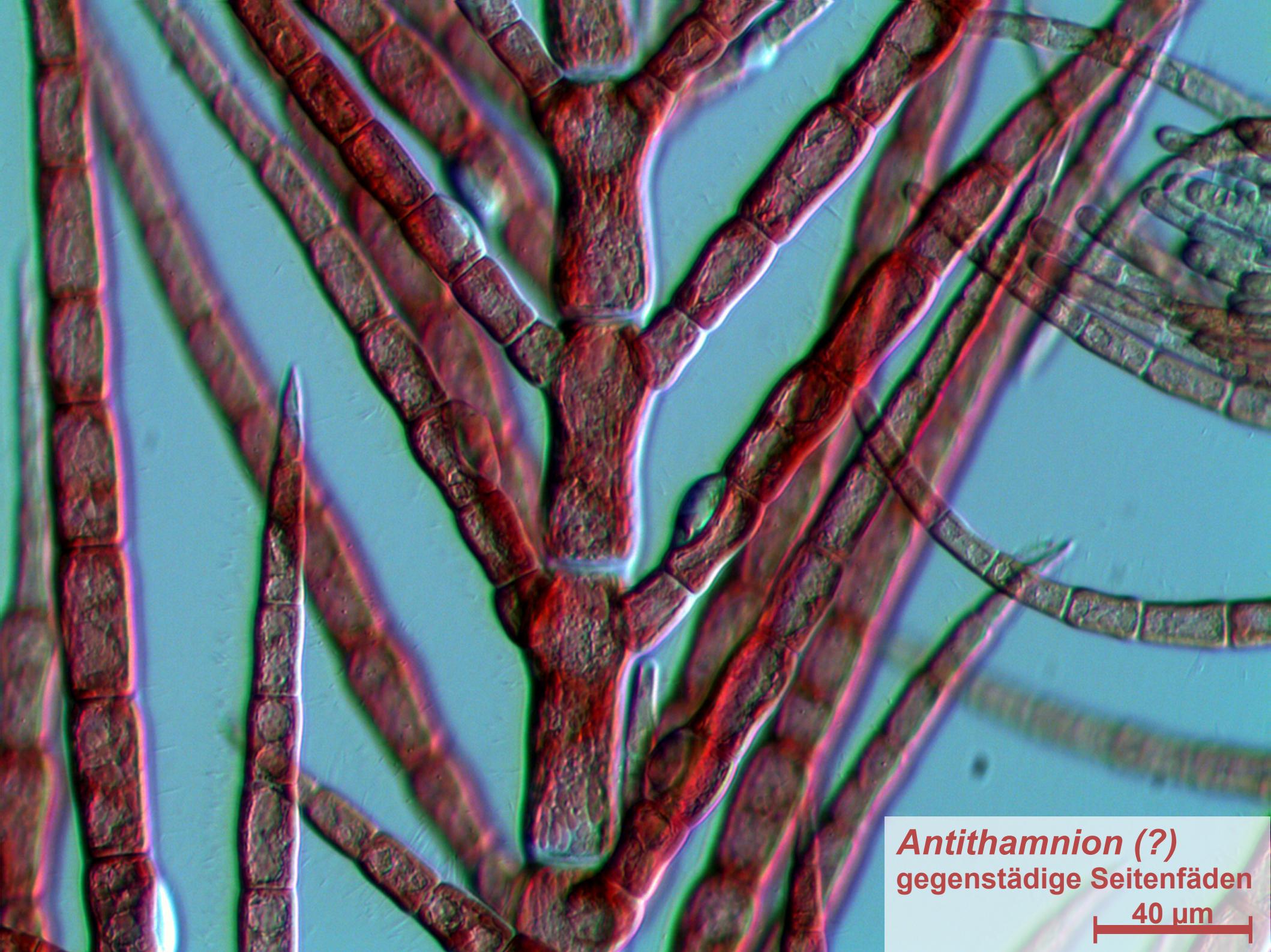
Antithamnion (?)
verzweigte Zellfäden

200 µm

A detailed micrograph showing a cluster of elongated, ribbed, translucent filamentous structures. Some filaments are straight, while others are curved or branched. The filaments appear to be composed of individual cells with visible internal structures.

Antithamnion (?)
verzweigte Zellfäden

40 µm



Antithamnion (?)
gegenständige Seitenfäden

40 µm



Antithamnion (?)
rhizoidartige Zellen

80 µm



Antithamnion (?)
Blasenzellen

20 μ m