Audouinella blumii Woelkerling

## A SPECIES WITH FEW RECORDS

WARNING:

diagnosis of this feature is best left to experts 45.060

Techniques needed and plant shape

Classification \*Descriptive name

Features

**Special requirements** 



Occurrences

**Usual Habitat** 

WARNING: diagnosis of this feature is best left to experts plants consist of *microscopic* prostrate threads *mingled* with the outer forked branches of *Helminthocladia australis* and erect threads, often unbranched
Squash a piece of the host, *Helminthocladia* species, and view microscopically the outer (cortical) host cells in which the parasite will be found. Notice:
host threads *branched* several times, ending in *inflated*, club-shaped cells

Phylum: Rhodophyta; Order: Acrochaetiales; Family: Acrochaetiaceae thread parasite of *Helminthocladia* 

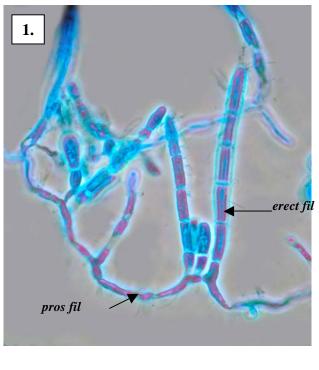
parasite plants of a very *thin* runner and erect thread of cylindrical cells, often unbranched; bunches of smaller cells (carposporangia) and stalkless, egg-

shaped spores (monosporangia) scattered along the filaments may occur. known only from Antechamber Bay, Kangaroo I., S. Australia, probably more widespread but overlooked.

within tissues of *Helminthocladia australis* and *H*. densa, on jetty piles. The hosts can also be infested with *Audouinella liagorae*.

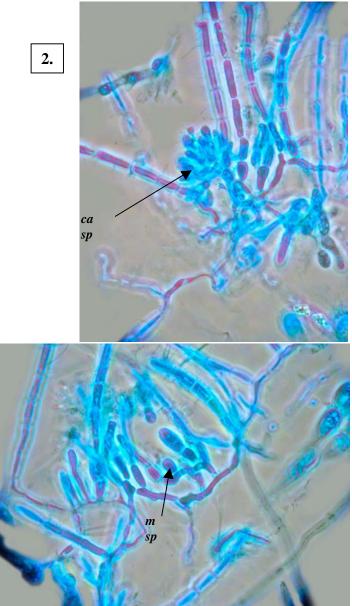
Similar Speciesother endophytic Audouinella species. A. blumii has very thin prostrate runners.Description in the Benthic FloraPart IIIA, pages 65-67

## **Details of Anatomy**



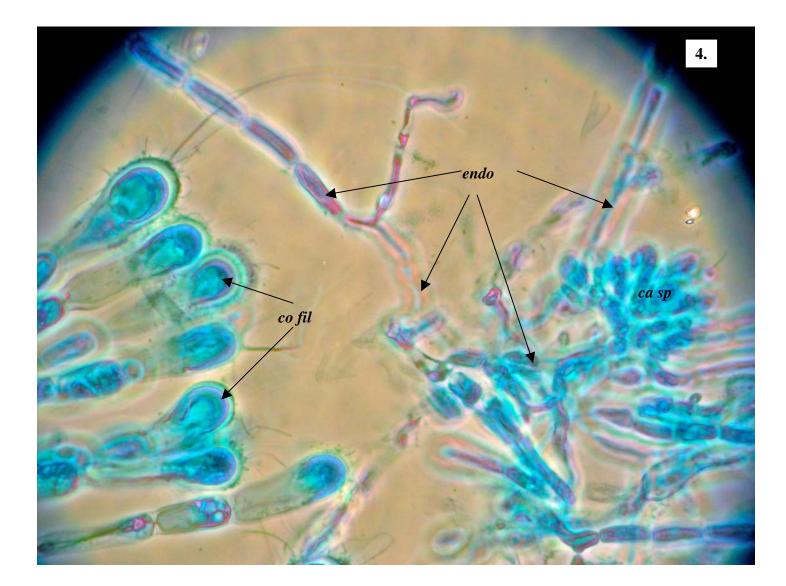
*Audouinella blumii*, (A32121 slide 1731), teased out from the outer (cortical) layer of the host, stained blue and viewed microscopically at different magnifications

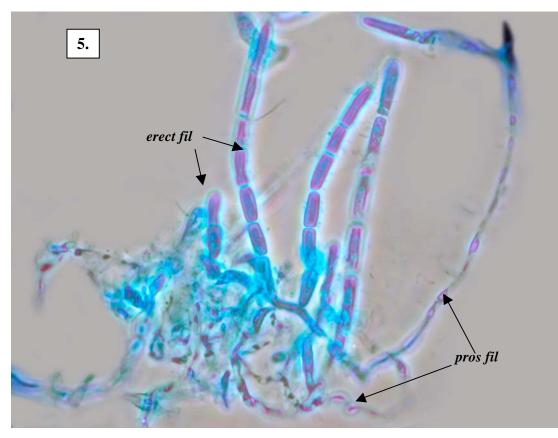
- 1. prostrate (*pros fil*) and erect (*erect fil*) threads showing the contrast in thickness
- 2. bunches of carposporangia (ca sp)
- 3. single monosporangium? (*m sp*)



\* Descriptive names are inventions to aid identification, and are not commonly used "Algae Revealed" R N Baldock, S Australian State Herbarium, December 2005

3.





Audouinella blumii, Woelkerling A32121, slide 1731 from Antechamber Bay, Kangaroo I., S. Australia stained blue and viewed microscopically at different magnifications

- 4. comparison of filaments of the outer layer of the host (cortical filaments, *co fil*) with the endophyte (*endo*) portion of which shows a bunch of carposporangia (*ca sp*)
- 5. plant extracted from host tissues, showing the thin prostrate threads (*pros fil*) and erect filament (*erect fil*)

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