

the base of the plant

- 1. view the tips of the strands microscopically.
- a single thread of cells (axial filament) runs through strands
- *each* filament cell produce a ring of *4* side branches ending in chains of small cells that make up a *loose* outer layer (cortex)
- *extremely fine* threads (rhizoids) may be produced from the inner (medullary) cells

squash a piece on a microscope slide to separate the lateral branches to find *bead-like chains* of cells — the auxiliary cell branch, characteristic of the group to which this species belongs — that precede female reproduction, and, after fertilisation, *compact* clusters of disc-shaped cells (carposporangia), in the middle (medulla) layer (see below)

a tropical species from Hawaii. In Australia, from Rottnest I., W. Australia, Coffs Harbor, Q., and Lord Howe I. The single collection from southern Australia at Isles of St Francis at 32-38m deep suggests that it may be adventive other members of the Dumontiaceae, especially *Dudresnya* and *Dasyphloea* with rings of branches on each cell of the central axial filament

Part IIIA, pages 219-222; Part IIID, Appendix, Page 499



Special requirements

Occurrences

Similar Species

Description in the Benthic Flora





- Acrosymphyton taylorii stained blue:
 1. tip of a strand showing central axial filament (ax fil), rings of 4 cells from each axial cell forming branches with chains of end cells (cortex, co) and a single rhizoid (rh)
- cortical cells with bead-like chains of cells that precede sexual reproduction (auxiliary cell branch, *aux br*), and 2 detached rhizoids (*rh*)
- 3. lower magnification showing compact clusters of carposporangia (*ca*) in the middle (medulla) region of a strand

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



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