

***Dicroglossum crispatum***  
(Harvey) A.Millar & Huisman

45.880.00



**MACRO  
PLANT**



**Techniques needed and shape**

**Classification**

Phylum: Rhodophyta; Family: Delesseriaceae; Tribe: Delesserioideae  
Group: *Dicroglossum*

**\*Descriptive name**

red film alga

**Features**



plants red, fading to a brown colour, 20-40mm tall of *thin*, forked, *flat-branched*, narrow blades about 3mm wide with ruffled *edges*; *central* mid-ribs present, smaller veins *absent*, teeth *absent*. Heart-shaped *bladelets* bearing reproductive structures arise from the *mid rib*

**Occurrences**

Fremantle, W Australia to Vivonne Bay Kangaroo I., S Australia

**Usual Habitat**

usually epiphytic on the seagrass *Amphibolis* and other algae

**Similar Species**

*Hemineura protendens*, *Phytimophora* and *Apoglossum*, but these have either smaller veins, marginal teeth or differences in the origins of branches

**Description in the Benthic Flora**

Part IIID, pages 30-32

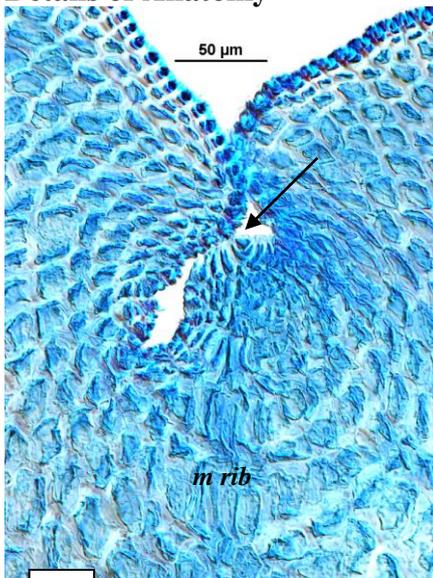
**Special Requirements**

under the microscope find

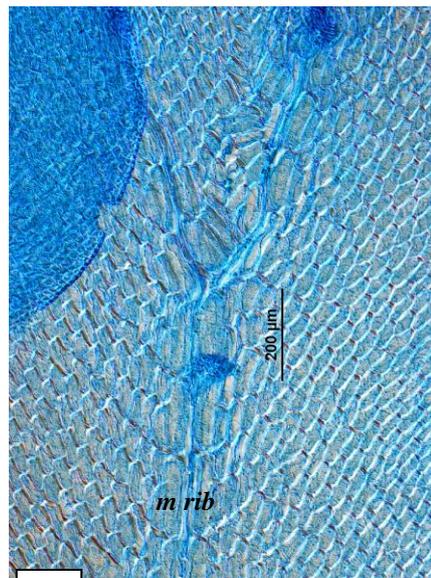


- a *single* hemispherical apical cell continuing the growth of blades by producing a *central thread* and *regular* arching lines of cells
- branching from *blade edges*, reflected in the *forked branching* of mid-ribs
- reproductive structures on blades and heart-shaped *bladelets* on mid-ribs
- female structures (cystocarps) *sunken* in blades, opening on one side
- male spermatangia in *elongate clusters* both sides of mid-ribs
- scattered tetrasporangia massed *over* mid-ribs mostly in bladelets

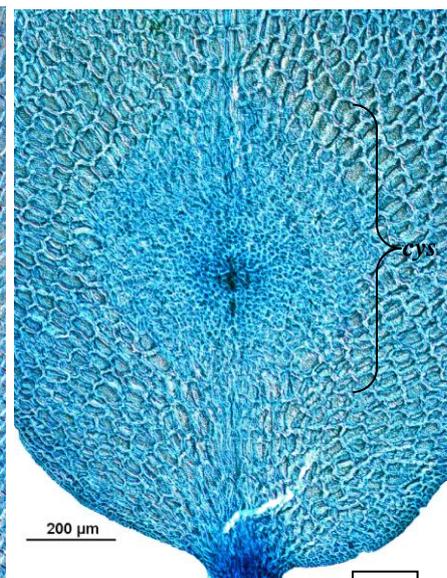
**Details of Anatomy**



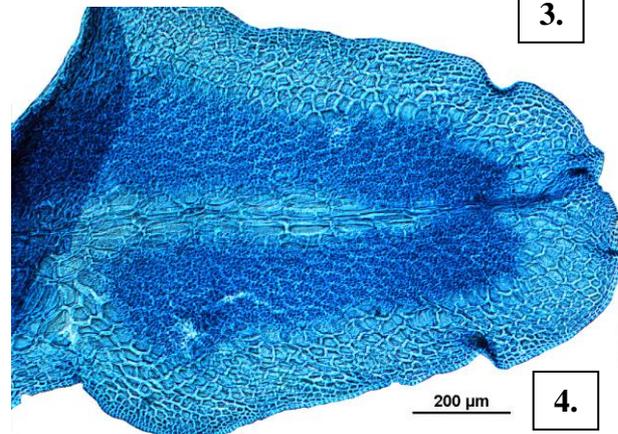
1.



2.



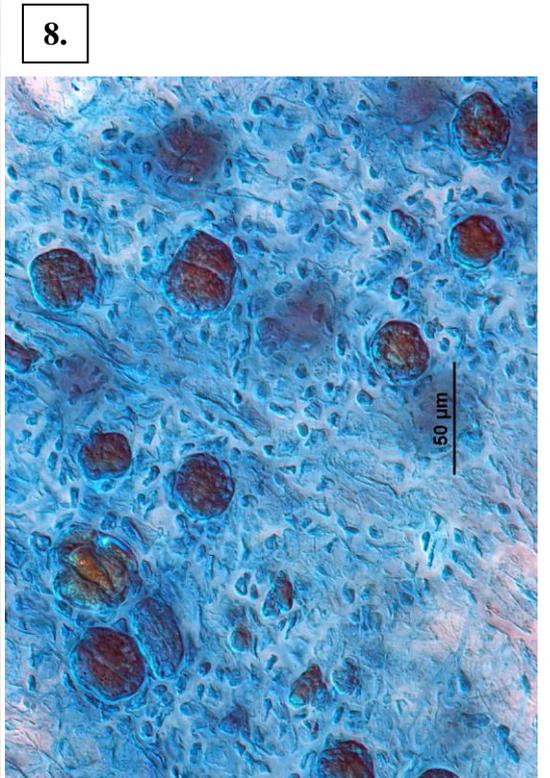
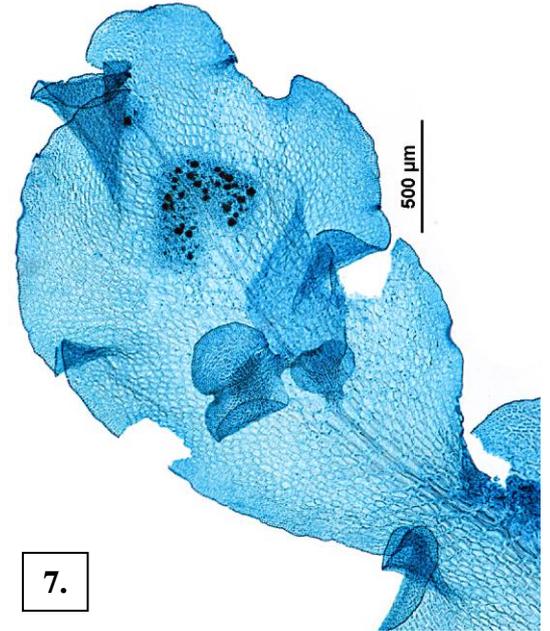
3.



4.

Surface microscope views of *Dicroglossum crispatum* stained blue

1. blade tip with apical cell (arrowed), mid-rib forming (*m rib*) and regular arching lines of cells (slide 17191)
2. forked (dichotomous) mid-rib indicative of the origin of branching from the blade edges (exogenous)(slide 17191)
3. sunken cystocarp (*cys*) on the mid-rib of a bladelet (slide 17193)
4. spermatangial masses both sides of a mid-rib of a blade (slide 17193)



- 5, 6. two drift specimens of *Dicroglossum crispatum* (Harvey) A. Millar & Huisman  
 5. from Vivonne Bay, Kangaroo I., S Australia (A10718)  
 6. from 10km E of Eucla, W Australia (A19285)
- 7, 8. surface microscope views at two magnifications of a tetrasporangial specimen stained blue:  
 7. clusters of mature sporangia on either side of the mid-rib of a main blade, ruffled edges, stalked bladelets bearing developing tetrasporangia arising from the mid-rib (slide 17191)  
 8. surface view of tetrasporangia adjacent to the leaflet mid-rib (slide 17191)