
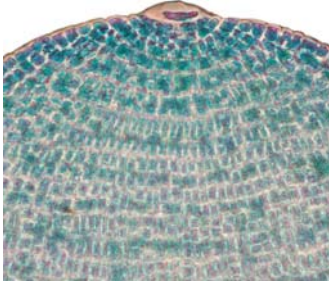



# SOUTHERN AUSTRALIAN GENERA OF *DICTYOTACEAE* AT A GLANCE

“Algae Revealed” R N Baldock, S Australian State Herbarium, July 2003  
(magnified detail may be colourless or blue)

## I. genera with *single* apical cells


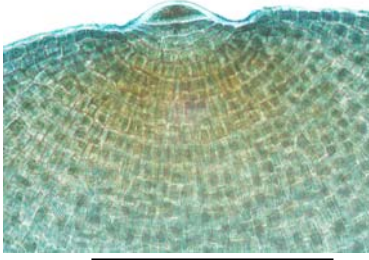
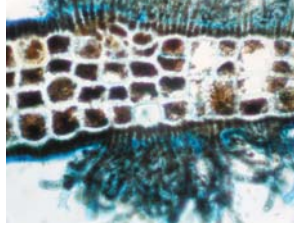





cross section

**Dictyota**

Single apical cell

Single middle layer of large cells; single outer layer of small cells

Young blades may show many cell layers only at edges

Several ordered middle layers of large cells; single outer layer of small cells in cross section

**Dilophus**

Single apical cell





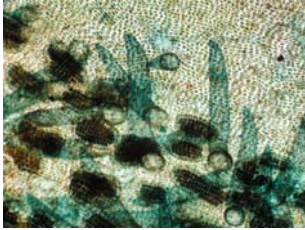




Divergent branches

Single large-celled middle layer, several rows of small outer cells in cross section

**Pachydictyon**

Single apical cells

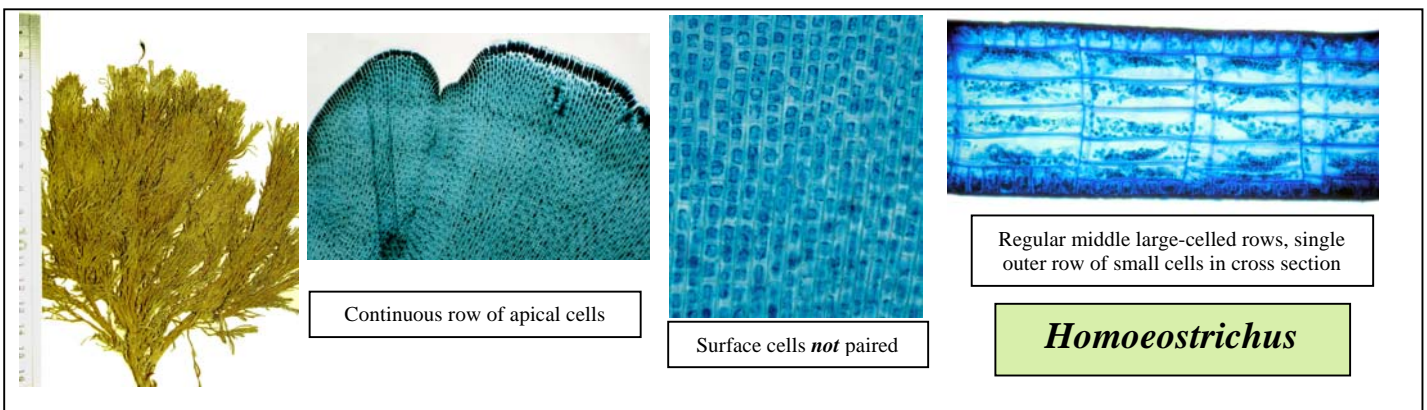
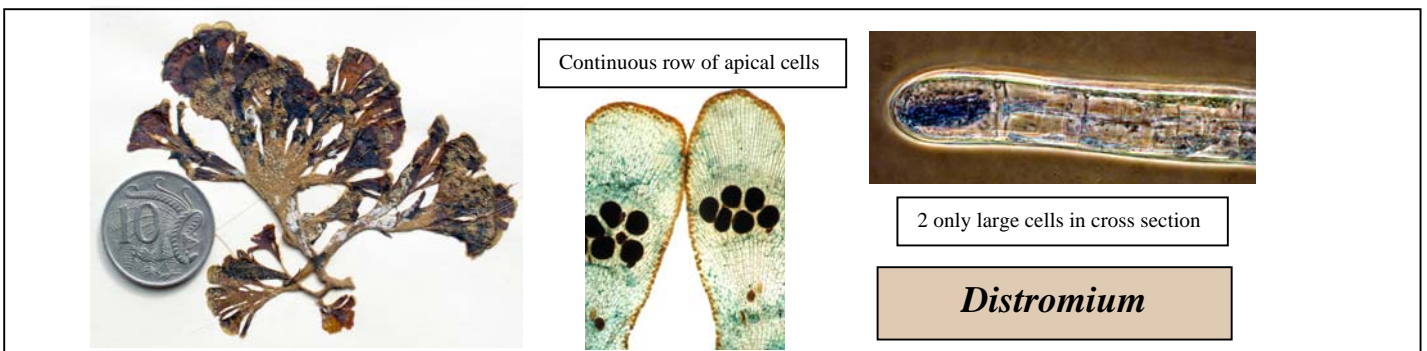
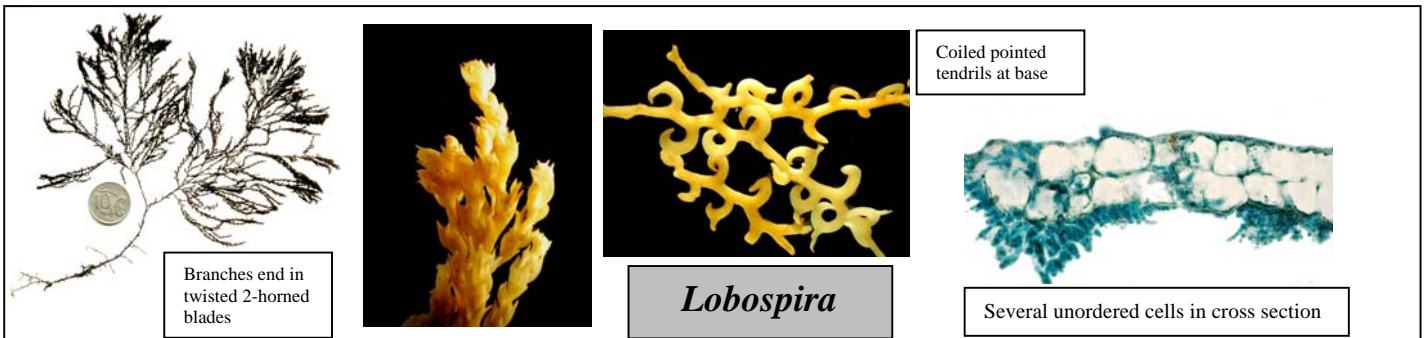
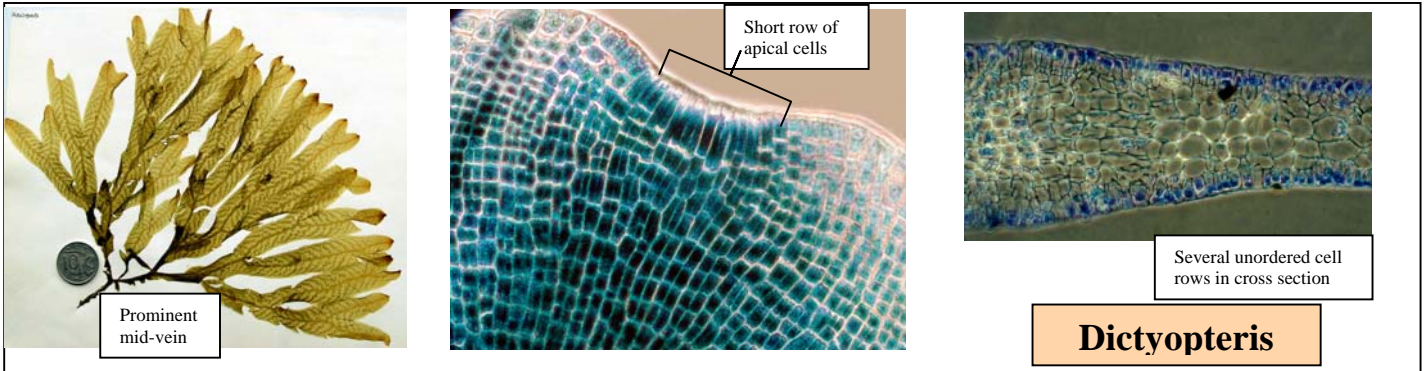
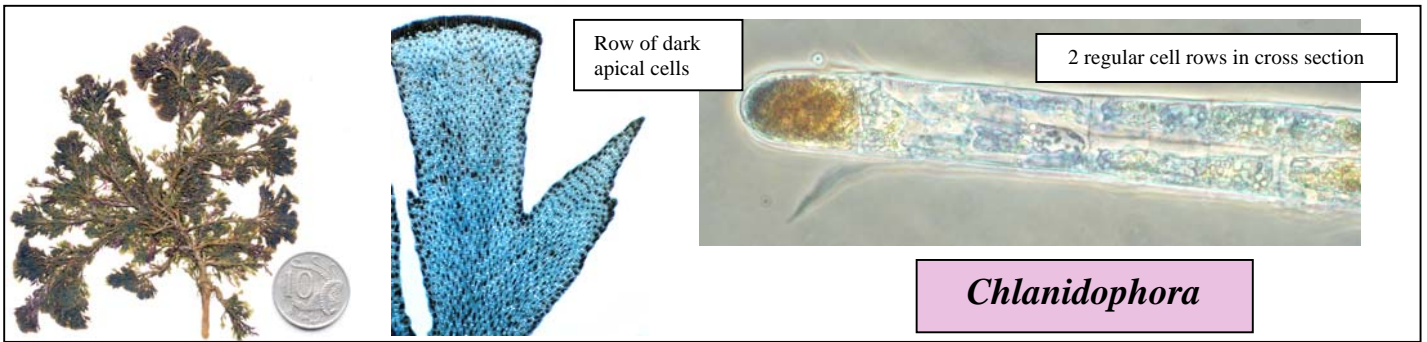





Surface with numerous bristly outgrowths


Single large-celled middle layer, single rows of small outer cells in cross section of most blades

**Glossophora**

## II. genera with *several* or a *row* of apical cells



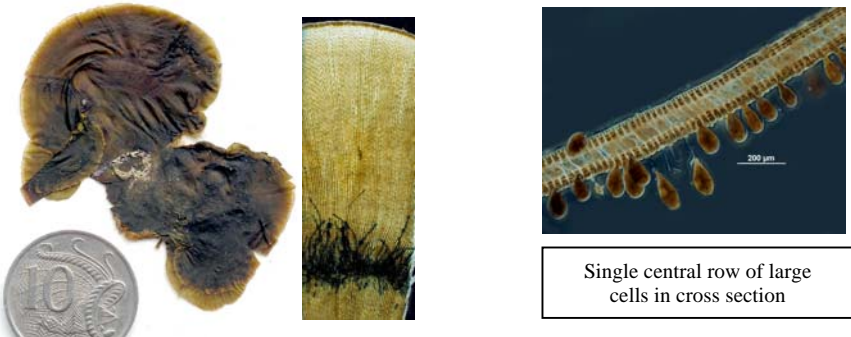
## II. genera with *several* or a *row* of apical cells (continued)



Continuous row of apical cells

Middle layer with large cells in 5 rows


**Exallosorus**



**Lobophora**

Single central row of large cells in cross section

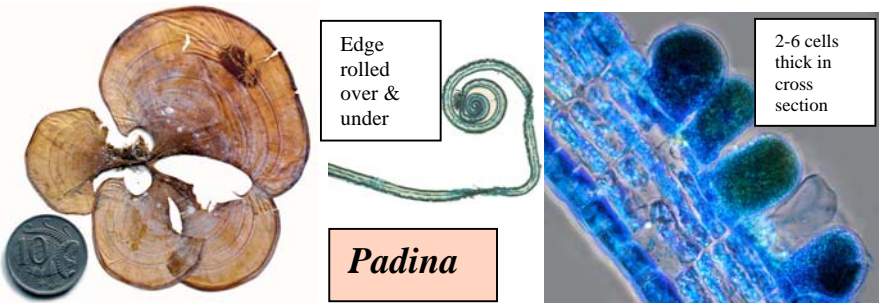
Continuous row of apical cells



Several rows of central cells of the same size in cross section

Continuous row of apical cells

**Zonaria**

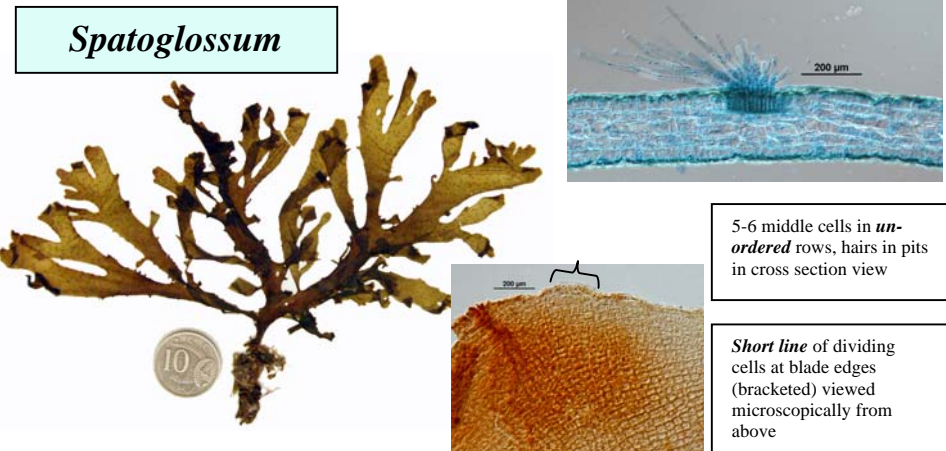


Edge rolled over & under

2-6 cells thick in cross section

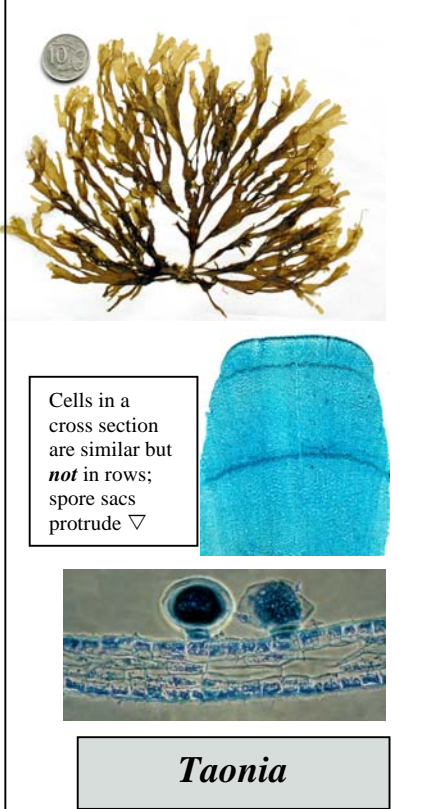
**Padina**

**Spatoglossum**



5-6 middle cells in *un-ordered* rows, hairs in pits in cross section view

Short line of dividing cells at blade edges (bracketed) viewed microscopically from above



Cells in a cross section are similar but *not* in rows; spore sacs protrude ▽

**Taonia**