

Tissue squashes of Helminthora lindaueri (A61545, slide 12776) stained blue and viewed microscopically

- 1. branch tip with wide core (medulla, med) of threads, and outer layers (cortex, co) of tufts of coloured cells
- 2. detached cortical tuft: basal medulla thread, rhizoids and curved, bead-like chains of cortical cells
- 3. structure produced after fertilisation, detaching as a complete unit: basal rhizoids (*rh*) fertile cells (gonimoblast, *gon*) and wrapping threads (involucre, *inv*)
- 4. early female structure: curved carpogonial branch, carp br) with trichogyne (tr) and threads from cells above (fil)
- 5. detached cortical tuft, end cells with spermatangia (*sperm*)



Helminthora linaueri Desikachary (6-8 from Victoria)

- 6, 7. a plant from the intertidal at Bridgewater Bay, showing the fuzzy surface and forked branching (A28070)
- 8. from low rock pools, Lawrence Rock Portland showing proliferation of side branches at the base (A24035)
- 9. base of a plant from Evans Cave, Cape Lannes near Robe, S Australia (A61545)
- 10. tips of cortical branches stained blue and viewed microscopically: smaller tip cell, bead-like chains of cells with bright objects associated with plastids (pyrenoid, *pyr*) (A61545 slide 12776)