



Sematophyllum jolliffii

a, branch leaves. **b**, apical cells of branch leaf. **c**, mid-laminal cells of branch leaf. **d**, alar region of branch leaf. **e**, perichaetial leaf. **f**, gametophyte and sporophyte. **g**, capsule with peristome. **h**, exothecial cells. **i**, spores. **j**, peristome: exostome tooth twisted near apex (left), endostome basal membrane with part of cilium (centre) and endostome segment (right) [a, *A.C.Beauglehole* 30375 (MEL); b–d, *A.W.Thies* FN1577P (MEL); e, h–j, Western Port, Vic., coll. unknown (MEL); f, g, *W.A.Weymouth* 164 (HO)]. Scales: 1 mm for habit, leaves, capsules; 50 microns for spores; 100 microns for cellular drawings including peristome. Drawings by L.Elkan & H.P.Ramsay. Reproduced from H.P.Ramsay, W.B.Schofield & B.C.Tan, *J. Hattori Bot. Lab.* 90: 36, fig. 18 (2002).