

rostrate, not or indistinctly necked; pedicel elongate. Leaves sheathing and channelled, denticulate, crisped when dry; basal cells, at least the inner ones, hyaline; costa not excurrent. Dioecious, rarely fruiting.

B. Peristome cancellate at base, divided above in filiform, more or less cohering branches.

V. Cinclidotæ. Leaves without lamellæ, often smooth; borders thick. Dioecious.

120. *Dialytrichia.* Capsule terminal on the stem; pedicel long; teeth faintly twisted. Leaves papillose, obtuse.

121. *Cinclidotus.* Capsule placed on small lateral branches, often nearly immersed; pedicel short; teeth not or scarcely twisted. Leaves generally smooth, often acute.

Fam. 25. Calymperaceæ.

122. *Calymperes.* Capsule oval; pedicel short. Leaves not sheathing, suboblong, entire and convolute, rigid when dry, often with propagula; basal cells, at least the inner ones, hyaline. Dioecious. Habit of *Syrrophodon*.

Fam. 26. Encalyptaceæ.

123. *Encalypta.* Leaves very papillose above. Peristome variable or wanting.

124. *Merceya.* Leaves smooth or indistinctly papillose. Capsules unknown.

Fam. 27. Orthotrichaceæ.

I. *Orthotricheæ.* Capsule terminal, often immersed; peristome generally double; segments usually ciliiform; calyptra mitriform. Leaves usually papillose, often crisped; inner cells not seriate; alar cells sometimes subquadrate; costa not excurrent. Stem generally erect and sparingly branching, seldom decumbent. Tufts often pulvinate.

125. *Orthotrichum.* Calyptra generally plicate and hairy.

II. *Macromitriææ.* Capsule lateral, not immersed; calyptra subcampanulate. Leaves indistinctly papillose; cells obliquely seriate, the alar not defined. Stem creeping; branches numerous.