

Fam. 7. **Meteoriaceæ.**

Stem pendent, without paraphyllia. Leaves papillose; cells very small, dilated or narrow. Calyptra mitriform or cucullate. Dioecious, very rarely fruiting.

Fam. 8. **Hookeriaceæ.**

Stem neither tree-like nor pendent; paraphyllia none. Leaves smooth or (in *Callicostella*) papillose; cells mostly dilated. Calyptra mitriform. Monoecious or polygamous.

Fam. 9. **Leskeaceæ.**

Stem decumbent, often with paraphyllia. Leaves mostly papillose; cells usually dilated. Calyptra cucullate.

Fam. 10. **Entodontaceæ.**

Stem generally decumbent, rarely ascending but not tree-like; paraphyllia none. Leaves smooth; cells mostly narrow. Calyptra cucullate.

B. *Platylepideæ*. Endostomial segments broad.

Capsule often asymmetric or curved. Calyptra cucullate. Leaves sometimes falcate.

a. Primary stem rhizomatic, mostly subterranean; secondary stems generally tree-like and suberect or ascending.

Leaves neither papillose nor falcate.

Fam. 11. **Olimaciaceæ.**

Capsule symmetric or asymmetric; pedicel mostly smooth. Stem often with paraphyllia. Leaf-cells mostly narrow. Branch-leaves often strongly serrate.

b. Stem not tree-like, generally decumbent.

Fam. 12. **Thuidiaceæ.**

Capsule generally asymmetric or curved; pedicel generally smooth. Stem often with paraphyllia. Leaves usually papillose, not distichous, rarely falcate; cells mostly dilated.