s. Male

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ove. sule ter148. Leucolepis. Stem-leaves (principally above) with elongate cells; branch-leaves with round-polygonal, small cells. Capsule symmetric; endostome orange; cilia not appendiculate. Habit of *Thamnium*.

B. Stem not tree-like.

a. Capsule lateral.

Rhizogonieæ. Capsule asymmetric and curved.
149. Rhizogonium. Leaves smooth, setiform; upper cells small and rotundate, the basal ones subquadrate.

b. Capsule terminal.

aa. Leaves sheathing; upper cells usually papillose.

III. *Timmiece*. Capsule symmetric. Leaf-cells small, round-hexagonal.

150. Timmia. Capsule not striate. Habit of Polytrichum.

*bb.* Leaves not sheathing, smooth or (in some species of *Aulacomnium*) papillose above.

IV. Aulacomnieæ. Leaves usually papillose; cells small, generally rotundate. Capsule often asymmetric, usually striate when dry.

151. Aulacomnium. Stem often with pseudopodia (sterile gemmiform shoots).

V. *Mnieæ*. Leaves smooth; cells polygonal, mostly large. Capsules generally symmetric, not striate, often clustered Subterranean stem generally rhizomatic, often stoloniferous. Lowest leaves mostly squamiform. Tufts generally loose.

152. Mnium. Capsules symmetric, often clustered; endostome orange; cilia not or indistinctly appendiculate. Leaves serrate or entire; cells nearly uniform, generally round-hexagonal, in one species suboval-oblong. Paraphyses claviform.

153. Roellia (new genus). Capsule symmetric, solitary; endostome hyaline; cilia not appendiculate. Leaves serrate; cells diversiform, mostly oblong-lanceolate or the uppermost oblong-oval. Male flowers unknown.

154. Rhodobryum. Capsules more or less asymme-