

8. ***Ulota*** D. Mohr juan ye xian shu

Ann. Bot. (König & Sims) 2: 540. 1806. *Orthotrichum* subgen. *Ulota* (D. Mohr) Boulay, Musc. France, Mousses 342. 1884. *Orthotrichum* sect. *Ulota* (D. Mohr) Müll. Hal., Syn. Musc. Frond. 1: 711. 1849.

Plants small to medium-sized or rather large, dark green, yellowish green to brown or black, in loose tufts or dense mats. *Stems* elongate, prostrate or erect-ascending, with erect reproductive branches, simple or forked; rhizoids dense, brown. *Leaves* crisped or twisted when dry, erect-spreading or squarrose when moist, narrowly lanceolate with ovate base or linear-lanceolate; margins entire, often inflexed; costae single, strong, mostly subpercurrent; upper leaf cells hexagonal; lower cells narrowly elongate, yellow; basal marginal cells often differentiated into several rows of quadrate, thin-walled, hyaline cells. *Gemmae* usually present on leaves. *Autoicous*, rarely dioicous. *Perichaetial leaves* not or only slightly differentiated. *Setae* very short to elongate; capsules erect, ovoid, oblong-ovoid or cylindrical, symmetric, with 8 furrows, often forming ridges when dry; opercula convex or flat conic, with long, straight rostrate apices; annuli often persistent; stomata present in lower part of capsules; peristome usually double, rarely absent; exostome teeth 16, lanceolate, often united in pairs; endostome segments usually 8, rarely 16 or rudimentary. *Calyptrae* mitrate or rarely cucullate, lobed at the base, with golden hairs, rarely naked. *Spores* spherical, finely papillose to papillose.