

1. ***Plagiothecium*** Bruch & Schimp. in B.S.G. mian xian shu

Bryol. Eur. 5: 179. 1852. *Hypnum* sect. *Plagiothecium* (Bruch & Schimp.) Sull. in Gray, Manual (ed. 2) 679. 1856.

Plants slender to medium-sized, often complanate, green or yellowish green, usually glossy, in loose or dense mats. *Stems* prostrate or somewhat ascending, irregularly branched; in cross section a row of outer cortical cells enlarged, thin-walled; central strand absent or weakly to well differentiated; paraphyllia and pseudoparaphyllia absent. *Stem* and *branch leaves* similar, erect-spreading, plane, or sometimes undulate, often asymmetric, ovate to elliptical, or ovate-lanceolate, gradually or abruptly acute to acuminate, strongly decurrent at base; margins often recurved near base, sometimes throughout, entire or somewhat dentate at apex; costae double, or forked, unequal, appearing to be single, reaching 1/3–1/2 the leaf length, sometimes very short or absent; median leaf cells smooth, narrowly or elongate-rhomboidal, thin-walled; basal cells shorter, broader; alar regions often differentiated with loose, elongate-rectangular cells, thin-walled, hyaline, often strongly decurrent with long, narrow stripes in 2–3 rows. *Brood bodies* often present; gemmae single-celled, club-shaped, cylindrical, or fusiform, 2–7 celled, uniseriate, often clustered in leaf axils on stems and branches, sometimes borne on dorsal leaf surfaces, hyaline or light green. *Autoicous* or *dioicous*. *Perichaetial leaves* often sheathing at base, reflexed at apex. *Setae* slender, smooth, somewhat reddish when mature; capsules suberect, inclined or horizontal, symmetric or asymmetric, ellipsoidal or cylindrical, with a short neck; stomata present; opercula conic-rostrate with long, oblique beaks; annuli differentiated; peristome double; exostome teeth narrowly lanceolate, yellowish, cross-striolate below, hyaline, papillose above; endostome segments keeled, hyaline, papillose; basal membrane high; cilia 2–3, nodulose. *Calyptrae* cucullate, smooth. *Spores* spherical, nearly smooth or papillose.