

(B.M. 2922); Italy (B.M. 1951); Portugal (B.M. 2923); Ceylon (Peradeniya Herb.); Java (B.M. 2924); New Zealand (B.M. 2925); Japan (B.M. 2926); Vancouver B.C. (B.M. 2927); Maplehurst, Ontario (B.M. 2928); Washington State (B.M. 2929); Iowa (B.M. 836); Colorado (B.M. 2930); South Carolina (K. 1053).

11. *T. Botrytis* Pers. in Roemer, N. Mag. Bot., i. 89 (1794). Plasmodium purple-brown. Total height 1.5 to 5 mm. Sporangia stalked, pyriform or turbinate, simple or combined in clusters, 0.6 to 0.8 mm. diam., yellowish-olive, red-brown, purple, or nearly black, often marked with paler lines of dehiscence; sporangium-wall of two layers, the outer charged with granular matter and continued into the stalk, the inner membranous, enclosing the spores. Stalks cylindrical, often combined in clusters of three to eight, furrowed, red- or purple-brown, consisting within of a spongy tissue enclosing refuse matter. Capillitium of cylindrical or fusiform yellowish-brown elaters, 4 to 5 μ diam., sometimes branched, gradually tapering to long slender points which are smooth at the tips, marked with three to five flattened or prominent lax and often rugged spiral bands, with intervals of about 1 μ . Spores ochraceous-yellow, minutely spinulose, 9 to 11 μ diam.—Macbr. N. Am. Slime-Moulds, 216. *Stemonitis Botrytis* Pers. in Gmel. Syst. Nat., 1468 (1791). *Trichia serotina* Schrad. in Schrad. Journ. Bot., v. 67 (1799). *T. pyriformis* Fr. Syst. Myc., iii. 184 (1829) non Pers. *T. Lorinzeriana* Corda Icon., i. 23, f. 228 D (1837). *T. purpurascens* Nyll. in Saellsk. Faun. Fl. Fenn., iv. 126 (1859); Mass. Mon., 177. *T. fragilis* Rost. Mon., p. 246 (1875); Mass. l.c., 175. *T. Carlyleana* Mass. in Journ. R. Micr. Soc., 1889, 329; Mass. Mon., 174. *Sphaerocarpus fragilis* Sow. Engl. Fung., t. 279 (1803).

Var 1.—*lateritia* Lister: stalks clustered, red, 2 mm. or more long; elaters pale burnt-sienna colour, terminating in a more or less abruptly tapering point 20 to 40 μ long, the spirals continued almost to the extremity; spores orange.—*T. lateritia* Lév. in Ann. Sci. Nat., ser. 3, v. 167 (1846); Rost. Mon., p. 250. *T. Decaisneana* de Bary in Rost. Mon., l.c.; Mass. Mon., 185.

Var. 2.—*munda* Lister: elaters pale brown or yellowish-brown, marked with close and regular spiral bands, with long tapering points; spores yellow or brownish-yellow.—See Journ. Bot., xxxv. 216.

Var. 3.—*flavicomma* Lister Mycetozoa, 172 (1894): sporangia minute, solitary, purplish-brown with yellow lines of dehiscence; elaters and spores bright yellow.

Pl. 163.—a. sporangia (England); b. elater, var. *munda*; c. elater of typical form; d. spore; e. sporangia, var. *lateritia*; f. g. h. elaters of same; i. spore; j. k. sporangia and elater of var. *flavicomma*.