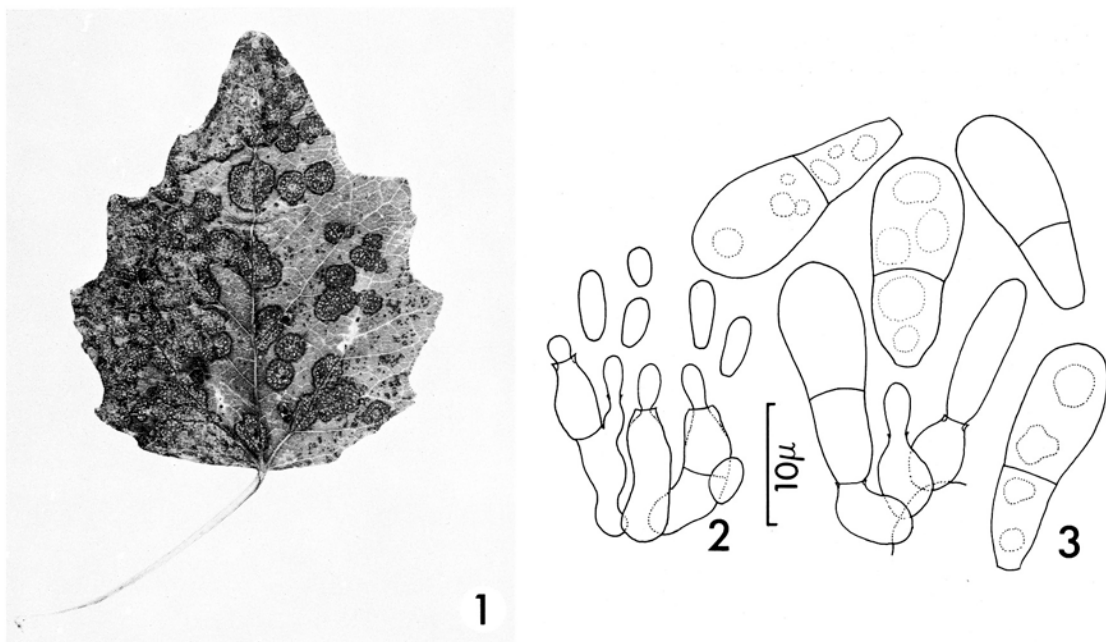


MARSSONINA CASTAGNEI



1, Habit (ca \times 1) from DAOM 144431; 2, conidiogenous cells and microconidia from DAOM 3082; 3, conidiogenous cells and macroconidia from DAOM 15557.

Marssonina castagnei (Desm. & Mont.) Magn., Hedwigia 45: 89. 1906.

≡ *Gloeosporium castagnei* Desm. & Mont., Ann. Sci. Nat. 12: 295. 1849.

≡ *Marsonia castagnei* (Desm. & Mont.) Sacc., Syll. Fung. 3: 768. 1884.

SPOTS dark brown, often paler in the centre and dotted with punctiform, whitish acervuli on the upper side, diffuse, purplish and inconspicuous below, round, mostly about 3 mm diam., usually coalescing into irregular, chestnut brown blotches which may cover most of the leaf surface. ACERVULI amphigenous but predominantly epiphyllous, intraepidermal, up to 400 μ diam., with accumulated conidia lifting host cuticle to form yellowish white or greyish blisters. CONIDIOGENOUS CELLS phialidic, ovoid to ampulliform, usually twisted, 6-10 \times 4-5 μ . CONIDIA hyaline, obovoid to pyriform, straight or somewhat curved, divided by a single septum into a smaller lower cell bearing a flat scar at the base and a larger, rounded upper cell, eguttulate or containing one or more irregular guttules in one (usually the upper) or both cells, (15-)16.5-20.5(-23.5) \times (5.5-)6.3-7.5(-8) μ .

Associated microconidia 1-celled, colourless, cylindrical, ellipsoid or obovoid, somewhat flattened at the base, 3.4-6 \times 1.5-2.2 μ , produced from ampulliform, sometimes branched phialides, 6-10 \times 3-4 μ .

SUBSTRATE: living leaves of *Populus alba* L.

DISTRIBUTION: Nova Scotia, Quebec, Ontario, British Columbia.

COLLECTIONS: on *Populus alba*, N.S., Grand Pré, King's Co., 3.VII.1953, DAOM 44004 (D. Creelman); Que., Mansonville, 3.X.1931, DAOM 3082 (H.N. Racicot), Lennoxville, 5.X.1948, DAOM 24067 (M.K. Nobles); Ont., London (Herb. Dearness 331 in DAOM), Ottawa, 29.VII.1945, DAOM 15557, 7.IX.1945, DAOM 15553, and 20.VIII.1973, DAOM 144431 (D.B.O. Savile); B.C., Ucluelet, Vancouver I., 18.VIII.1959, DAOM 71479 (E.G. Harvey), Victoria, V.I., 29.VII.1960, DAOM 75118 (W.G. Ziller), Agassiz, 7.VIII.1961, DAOM 88058 (D.H. Ruppel), Point Grey, Vancouver, 16.VI.1947, DAOM 118687 (H. Toms).

NOTES: The perfect state, *Drepanopeziza populi-albae* (Kleb.) Nannf. is not yet known to occur in

Canada. What Bisby et al. (Fungi of Man. and Sask., Ottawa, 1938) recorded as *M. castagnei* on *P. balsamifera* in Manitoba and on *P. tremuloides* in Saskatchewan is almost certainly a different species.

Leptothyrium circinans Fuckel, *Gloeosporium populi-albae* Desm. and *Didymosporium piriforme* Riess were cited by Rimpau (Phytopath. Z. 43: 257-306. 1962) as synonyms of *M. castagnei*. The former two are *Titaeosporina tremulae* (Lib.) v. Luyk (von Arx, Verh. Akad. wet. Amsterdam 51 no.3, 1957) and the latter appears to be closer to *M. populi*.

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