Miscanthus-Plantago rust - *Puccinia miscanthi*

*Puccinia miscanthi* is similar to the other Asian rust species on *Miscanthus*, namely *P. daisenensis* Hiratsuka f., *P. erythropus* Dietel, *P. miscanthi* Miura, *P. miscanthidii* Doidge, and *P. miscanthicola* F.L. Tai & C.C. Cheo among others. *Puccinia miscanthi* has been reported on numerous grasses, including species of *Saccharum*, although it is not considered damaging to sugarcane (*S. officinarum*).

**Puccinia miscanthi** Miura 1928

**Aecia** on *Plantago*: aeciospores 20-30 × 17-26 µm, ellipsoid to globose, walls 1-1.5 µm thick, hyaline or pale yellowish, verrucose. Peridial cells 33-50 × 27-39 µm, with warts.

**Uredinia** mostly on abaxial leaf surface, cinnamon-brown with capitate paraphyses, walls 2-3 µm thick below, 6-10 (-15) µm apically, cinnamon; urediniospores 25-40 × 19-28 µm, mostly obovoid, walls 1.5-2.5 µm, thick, cinnamon or dark cinnamon-brown, apex slightly darker, echinulate, germ pores 4 or 5 equatorial.

**Telia** mostly on abaxial leaf surface, early exposed, black; teliospores 32-60 × 16-23 µm, mostly oblong-clavate, walls 1.5-2.3 µm, thick at sides, 4-6 µm apically, chestnut-brown; pedicels thick-walled.

See Hiratsuka et al. (1992) and Sato & Kakishima (1982) for more detailed descriptions.

**Host range:** Aecial stage known primarily on *Plantago* including *P. asiatica*, *P. camtschatica*, *P. sawadai*, *P. togashii*, but recently to also develop on *Lysimachia clethroides*.

**Geographic distribution:** Asia (China, Japan, Korea, Malaysia, Papua New Guinea, Philippines, Taiwan) with one report from Africa (Nigeria, Eboh, 1985).

Host range studies with inoculation experiments showed that this species can infect *Lysimachia clethroides* (Primulaceae), although such infection has not been seen in nature (Sato & Kakishima, 1982).


**References:**


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Uredinia and telia of *Puccinia miscanthi* on *Miscanthus* sp. (x25)

Teliospore of *Puccinia miscanthi* on *Miscanthus* sp. (x40)

Uredinospores of *Puccinia miscanthi* on *Miscanthus* sp. (x40)