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Rust of *Monstera deliciosa* in Australia

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Puccinia paullula on *Monstera deliciosa* in Australia was compared with other rust fungi recorded on aroids. Urediniospores were present throughout the year but with little or no germination except during the cooler months. Teliospores were produced only during the warmer months and the possible temperature threshold for teliospore induction is discussed. Teliospores germinated without dormancy but sporidia were unable to infect *M. deliciosa*. *M. deliciosa*, *M. adansonii* var. *laniata*, *M. standleyana* cv. *Variegata*, *M. subpinnata*, *Epipremnum* (*Rhaphidophora*) *pinnatum* (but not *E. pinnatum* cv. *Aureum*) and *Typhonodorum lindleyanum* had various degrees of susceptibility but not some other aroids including *Amorphophallus* spp. The fungus on *Amorphophallus* is designated f. sp. *amorphophalli* and that on *Monstera* spp., *E. pinnatum* and *T. lindleyanum* is f. sp. *monsterae*.

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