

U.S. Department of Agriculture, Agricultural Research Service

Systematic Mycology and Microbiology Laboratory - Nomenclature Fact Sheets

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Phyllosticta spp. on *Passiflora* spp.

Nomenclature

The taxonomy is uncertain for *Phyllosticta* spp. occurring on the plant host *Passiflora*. None of the three species reported on *Passiflora* spp. were accepted in the most recent revision of the genus (van der Aa & Vanev 2002). *Phyllosticta passifloramaculans* Bat. was listed as a probable *Phoma* sp. but was not formally transferred. *Phyllosticta passiflorae* McAlpine and *P. superficialis* F. Stevens were excluded from *Phyllosticta* sensu stricto but their genus could not be determined. Van der Aa and Vanev were not able to examine any of the type specimens, therefore these judgements were based solely on the description from the protologue for each of the species.

P. superficialis was originally published as '*superficiale*' but was subsequently corrected under Article 23.3 and Article 32.5 of the International Code of Botanical Nomenclature (St. Louis Code, 2000).

Plant Hosts and Geographic Distribution

P. passiflorae was initially collected on *Passiflora edulis* in Australia (McAlpine 1903). Both *P. passifloramaculans* and *P. superficialis* have been reported on *Passiflora edulis* in Brazil (Batista & Vital 1952, Mendes et al. 1998). In addition, *P. superficialis* was reported on *Passiflora sexflora* in Puerto Rico under the original spelling '*superficiale*' (Stevenson 1975).

Phyllosticta sp. has been reported on *Passiflora edulis* in Brazil (Batista 1952, Mendes et al. 1998), on *Passiflora foetida* in India (Mathur 1979), and on a *Passiflora* sp. in Brazil (Mendes et al. 1998). The only record of *Phyllosticta* occurring on *Passiflora* spp. in the United States is for a *Phyllosticta* sp. in New Jersey on an ornamental *Passiflora* sp. (Anon. 1960, also cited in Horst 2002) and a *Phyllosticta* sp. in Florida on *Passiflora edulis* (Alfieri et al. 1984, 1994), both listed in plant host indices without supporting detail.

Nomenclature Reports

Phyllosticta passiflorae McAlpine 1903 (Ascomycetes, Dothideales)

Notes: Not accepted as a *Phyllosticta* sp. sensu stricto by van der Aa (2002). Generic affinity uncertain.

Distribution: Australia (type).

Substrate: Leaves.

Host: *Passiflora edulis* (type, Passifloraceae).

Supporting Literature:

Van Der AA, H.A., and Vanev, S. 2002. A revision of the species described in *Phyllosticta*. Centraalbureau voor Schimmelcultures, Utrecht, 510 pages.

Verified By: Erica On Jul 14, 2005

Phyllosticta passifloramaculans Bat. 1952 (Ascomycetes, Dothideales)

Notes: Type not available; probably a *Phoma* sp. (van der Aa, 2002).

Distribution: South America (Brazil).

Substrate: Living leaves.

Host: *Passiflora edulis* (Passifloraceae).

Supporting Literature:

Batista, A.C., and Vital, A.F. 1952. Monografia Das Especies De *Phyllosticta* Em Pernambuco. Bol. Secret. Ind. Comer. (Argent.) 19: 1-80.

Van Der AA, H.A., and Vanev, S. 2002. A revision of the species described in *Phyllosticta*. Centraalbureau voor Schimmelcultures, Utrecht, 510 pages.

Verified By: Erica On Jul 14, 2005

Phyllosticta superficialis F. Stevens 1917 (Ascomycetes, Dothideales)

Variant spelling *Phyllosticta superficiale* F. Stevens 1917 Note: Original spelling corrected; should be nominative feminine not neuter ending.

Notes: Not accepted as a *Phyllosticta* sp. sensu stricto by van der Aa (2002). Generic affinity uncertain.

Distribution: South America (Brazil), Puerto Rico. Report from Virgin Islands is a transcription error.

Substrate: Living leaves.

Disease Note: Brown leaf spot.

Host: *Passiflora sexflora*, *Passiflora edulis* (Passifloraceae).

Supporting Literature:

Van Der AA, H.A., and Vanev, S. 2002. A revision of the species described in *Phyllosticta*. Centraalbureau voor Schimmelcultures, Utrecht, 510 pages.

Verified By: Erica On Jul 14, 2005

Additional References

Alfieri Jr., S.A., Langdon, K.R., Wehlburg, C., and Kimbrough, J.W. 1984. Index of Plant Diseases in Florida (Revised). Florida Dept. Agric. and Consumer Serv., Div. Plant Ind. Bull. 11 : 1-389.

Alfieri Jr., S.A., Langdon, K.R., Kimbrough, J.W., El-Gholl, N.E., and Wehburg, C. 1994. Diseases and Disorders of Plants in Florida. Florida Dept. Agric. and Consumer Serv., Div. Plant Ind. Bull. 14 : 1114

Anonymous 1960. Index of Plant Diseases in the United States. U.S.D.A. Agric. Handb. 165 : 1-531.

Farr, D.F., Bills, G.F., Chamuris, G.P., and Rossman, A.Y. 1989. Fungi on Plants and Plant Products in the United States. American Phytopathological Society, St. Paul, Minnesota, 1252 pages.

Horst, R.K. 2001. Westcott's Plant Disease Handbook, Sixth Edition. Kluwer Academic Publishers, 1008 pages

Mathur, R.S. 1979. The Coelomycetes of India. Bishen Singh Mahendra Pal Singh, Delhi, India., 460 pages.

McAlpine 1903. Proc. Linn. Soc. N.S. Wales 23(3):557.

Mendes, M.A.S., da Silva, V.L., Dianese, J.C., and et al. 1998. Fungos em Plants no Brasil. Embrapa-SPI/Embrapa-Cenargen, Brasilia, 555 pages.

Stevenson, J.A. 1975. Fungi of Puerto Rico and the American Virgin Islands. Contr. Reed Herb. 23 : 743

Written by Erica Cline, October 12, 2005.