

U.S. Department of Agriculture, Agricultural Research Service

Systematic Mycology and Microbiology Laboratory - Nomenclature Fact Sheets

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Discostroma fuscillum

This fungus was initially described by Berkeley and Broome in 1852 under the name *Sphaeria fuscella*. According to Huhndorf (1992), Berkeley & Broome (1852) erroneously described the ascospores as pale brown in their English description (with color unspecified in the Latin description), but in a figure accompanying the type specimen they annotated the ascospores of *Sphaeria fuscella* as hyaline. Based on the description of brown ascospores, *Sphaeria fuscella* was widely considered to be a *Leptosphaeria*. Wehmeyer (1957) examined the type specimen and found that it contained a fungus with hyaline ascospores identical to *Sphaeria corticola* (= *Discostroma corticola*); however, Wehmeyer regarded the confusion surrounding the discrepancies between the type specimen and Berkeley & Broome's description as grounds for rejecting the name as a *nomen dubium*. Huhndorf (1992) disagreed, arguing that *Sphaeria fuscella* was suitable for use as the basionym for this fungus. As the epithet *fuscella* has priority over *corticola*, she transferred *Sphaeria fuscella* to the genus *Discostroma* and placed *Discostroma corticola* in synonymy. The fungus is still commonly referred to as *Discostroma corticola* in the literature.

The anamorph of *Discostroma fuscillum* was first described by Corda in 1839 as *Sporocadus lichenicola*, the type of the genus *Sporocadus*. Shoemaker (1964) treated *Sporocadus* as a synonym of *Seimatosporium* and transferred *Sporocadus lichenicola* to the genus *Seimatosporium* as *Seimatosporium lichenicola*. Brockmann (1975) disagreed, maintaining *Sporocadus* as a distinct genus on the basis of differences in conidial morphology. Here we follow Brockmann (1975) in retaining *Sporocadus lichenicola* as the accepted name for the anamorph of *Discostroma fuscillum* (as *Discostroma corticola*). The status of the genus *Sporocadus* remains controversial. Nag Raj (1993) followed Brockmann (1975) in maintaining it as a distinct genus, while Sutton (1980) followed Shoemaker (1964) in considering *Sporocadus* to be a synonym of *Seimatosporium*.

Both Brockmann (1975) and Sutton (1980) listed an extensive synonymy for *Sporocadus lichenicola* (for Sutton, under the name *Seimatosporium lichenicola*). The nomenclature report below is based on the synonymy of Brockmann (1975), which differs in many respects from that of Sutton (1980). See the nomenclature reports for *Seimatosporium hysteroioides* and *Seimatosporium salicinum* below for additional names listed by Sutton (1980) and Shoemaker (1964) as synonyms of *Sporocadus lichenicola* (as *Seimatosporium lichenicola*).

Nomenclature Report:

***Discostroma fuscillum* (Berk. & Broome) Huhndorf 1992 (Ascomycetes, Xylariales)**

≡ *Sphaeria fuscella* Berk. & Broome 1852

≡ *Leptosphaeria fuscella* (Berk. & Broome) Ces. & De Not. 1863

≡ *Leptosphaeria fuscella* var. *fuscella* (Berk. & Broome) Ces. & De Not. 1863

= *Metasphaeria cinerea* Sacc. 1883 Note: Author corrected from (Fuckel) Sacc.; an illegitimate later

homonym cannot serve as the basionym (Art. 58.1). The name *Sphaeria saepincola* and *Metasphaeria saepincola* have been misapplied by Fuckel and by Schroeter, respectively, to this fungus (Brockmann 1975).

[≡ *Sphaeria cinerea* Fuckel 1870 - illegitimate later homonym, not included in search] Note: Not Pers. 1801 = *Ostropa barbara*. Brockmann (1975) lists *Cucurbitaria cinerea* Fuckel, possibly an invalid name?

≡ *Leptosphaeria cinerea* (Sacc.) G. Winter 1885

= *Sphaeria corticola* Fuckel 1870

≡ *Discostroma corticola* (Fuckel) I. Brockmann 1976 [1975]

≡ *Clethridium corticola* (Fuckel) Shoemaker & E. Müll. 1964 Note: as 'Clathridium'

≡ *Griphosphaeria corticola* (Fuckel) Höhn. 1918

≡ *Pleosphaerulina corticola* (Fuckel) Rehm 1912

≡ *Leptosphaeria corticola* (Fuckel) Sacc. 1878 Note: A misapplied name.

≡ *Metasphaeria corticola* (Fuckel) Sacc. 1883

Variant spelling *Clathridium corticola* (Fuckel) Shoemaker & E. Müll. 1964 Note: Variant spelling of *Clethridium corticola*.

= *Sphaeria leiostega* Ellis 1881 Note: Corrected spelling.

Variant spelling *Sphaeria lejustega* Ellis 1881 Note: Original spelling.

≡ *Metasphaeria leiostega* (Ellis) Sacc. 1883

≡ *Leptosphaeria leiostega* (Ellis) A.G. Eliasson 1896

Variant spelling *Metasphaeria lejustega* (Ellis) Sacc. 1883 Note: Original spelling of *Metasphaeria leiostega*.

= *Sphaerulina salicina* Syd. 1913

Alternate State (Anamorph): *Sporocadus lichenicola* Corda

Notes: *Discostroma fuscillum* was originally published as *Discostroma fuscilla*. This species is commonly reported in the literature as *Discostroma corticola*. Huhndorf (1992) argued that *Discostroma corticola* was synonymous with *Sphaeria fuscilla* (= *Leptosphaeria fuscilla*; *fuscilla* has priority therefore she made the new combination *Discostroma fuscilla*. According to Huhndorf (1992), Berkeley & Broome made an error in their description which resulted in confusion, but the name is suitable for use (see also Wehmeyer 1957).

Distribution: Europe, North America (USA), Asia (China, India), Africa (Ethiopia, South Africa), Australia, New Zealand.

Substrate: Branches, twigs, leaves..

Host: Woody trees and shrubs of multiple plant families.

Internal Note: Spelling corrected to *fuscillum* to agree with the neuter genus *Discostroma*.

Sporocadus lichenicola Corda 1839

- ≡ *Hendersonia lichenicola* (Corda) Lév. 1846 Note: Author and year changed (checked source).
- ≡ *Seimatosporium lichenicola* (Corda) Shoemaker & E. Müll. 1964
- = *Coryneum carbonaceum* Kabát & Bubák 1916
- = *Coryneum corni-asperifoliae* Gonz. Frag. 1817 Note: Published as *corni-asperiiifoliae*.
- = *Hendersonia crataegi* Brenckle 1918 Note: Listed as a synonym by Sutton (1980) but not by Brockmann (1975).
- = *Hendersonia decipiens* Thüm. 1876
- = *Coryneum foliicola* Fuckel 1870
 - ≡ *Coryneopsis foliicola* (Fuckel) Grove 1932
- = *Hendersonia henriquesiana* Sacc. & Roum. 1884
- = *Coryneum maculicola* Fuckel 1870
- = *Coryneum microstictoides* Sacc. & Penz. 1882
- = *Coryneum microstictoides* subsp. *epilobii* P. Karst. 1888
 - ≡ *Coryneum epilobii* (P. Karst.) Oudem. 1923
- = *Coryneum microstictum* Berk. & Broome 1850 Note: Synonymy follows Nag Raj (1993, p. 52), but see Brockmann (1975, p. 316).
 - ≡ *Leptocoryneum microstictum* (Berk. & Broome) Petr. 1925
 - ≡ *Stilbospora microsticta* (Berk. & Broome) Höhn. 1930
 - ≡ *Coryneopsis microsticta* (Berk. & Broome) Grove 1932
- = *Sporocadus rosicola* Rabenh. 1848
- = *Hendersonia rubi* Westend. 1878 Note: Brockmann (1975) cites Bull. de Brux. II p. 14 but this record could not be located.
 - ≡ *Coryneopsis rubi* (Westend.) Grove 1937
- = *Coryneum ruborum* Oudem. 1894
- [= *Coryneum sorbi* Mig. 1934 - illegitimate later homonym, not included in search] Note: Validly published in *exsiccati*. Not *Coryneum sorbi* Peck = *Seimatosporium cassiopes*.
- = *Coryneum trotterianum* C. Massal. 1914

Alternate State (Teleomorph): *Discostroma fuscillum* (Berk. & Broome) Huhndorf

Notes: *Sporocadus lichenicola* is the type of the genus *Sporocadus*. Sutton (1980) followed Shoemaker (1964) who transferred *Sporocadus lichenicola* to the genus *Seimatosporium* and treated *Sporocadus* as a synonym of *Seimatosporium*, but Nag Raj (1993) followed Brockmann (1975) who maintained *Sporocadus* as a distinct genus. Here we follow Brockmann (1975).

Distribution: Europe, North America (USA), Asia (China, India), Africa (Ethiopia, South Africa),

Australia, New Zealand.

Substrate: Twigs, branches, leaves.

Host: Woody trees and shrubs of multiple plant families.

Supporting Literature:

Barr, M.E. 1994. Notes on the Amphispheeriaceae and related families. *Mycotaxon* 51: 191-224.

Brockmann, I. 1975. Untersuchungen ueber die Gattung *Discostroma* Clements (Ascomycetes). *Sydowia* 28: 275-338.

Huhndorf, S.M. 1992. Systematics of *Leptosphaeria* species found on the Rosaceae. *Illinois Nat. Hist. Survey, Biol. Notes* 34: 480-533.

Nag Raj, T.R. 1993. Coelomycetous anamorphs with appendage-bearing conidia. Mycologue Publications, Waterloo, Ontario, 1101 pages.

Shoemaker, R.A. 1964. *Seimatosporium* (=Cryptostictis) parasites of *Rosa*, *Vitis*, and *Cornus*. *Canad. J. Bot.* 42: 411-421.

Shoemaker, R.A., and Mueller, E. 1964. Generic correlations and concepts: *Clathridium* (=Griphosphaeria) and *Seimatosporium* (=Sporocadus). *Canad. J. Bot.* 42: 403-410.

Sutton, B.C. 1980. The Coelomycetes. Fungi Imperfecti with Pycnidia, Acervuli and Stromata. Commonwealth Mycological Institute, Kew, Surrey, England : 696.

Wehmeyer, L.E. 1957. The genera *Sacchettoecium*, *Pringsheimia*, *Pleosphaerulina* and *Pseudoplea*. *Mycologia* 49: 83-94.

Verified By: Erica On Feb 08, 2006

Seimatosporium hysteroioides (Fuckel) Brockmann 1975 (Ascomycetes, Xylariales)

≡ Cryptostictis hysteroioides Fuckel 1866

≡ Doehmolopha hysteroioides (Fuckel) Cooke 1878 Note: Checked source.

≡ Hendersonia hysteroioides (Fuckel) Fuckel 1884

= Amphichaeta europaea Grove 1917

= Pestalotia monochaetoidea var. affinis Sacc. & Briard 1902

≡ Monochaetia monochaetoidea var. affinis (Sacc. & Briard) Allesch. 1902 Note: Incorrect author citation in Nag Raj 1992 (checked source).

≡ Monochaetia ellisiana var. affinis (Sacc. & Briard) Sacc. 1931 Note: Incorrect author citation in Nag Raj 1992 (checked source).

Variant spelling Pestalozzia monochaetoidea var. affinis Sacc. & Briard

= Pestalotia sarmenti Pass. 1890 [1889]

≡ Monochaetia sarmenti (Pass.) Sacc. 1902

Variant spelling Pestalozzia sarmenti Pass.

= Pestalotia viticola Cavara 1888

≡ Monochaetia viticola (Cavara) Allesch. 1902 Note: Author and year changed, see Nag Raj 1993.

≡ Hyaloceras viticola (Cavara) Died. 1915 Note: Listed by Nag Raj (1993) as Hyalocera.

Variant spelling Pestalozzia viticola Cavara

Notes: Shoemaker (1964 p. 413) and Sutton (1980) considered *Seimatosporium hysteroioides* to be a synonym of *Seimatosporium lichenicola* (= *Sporocadus lichenicola*). Sutton (1980) followed Shoemaker (1964 p. 405) in synonymizing *Sporocadus* with *Seimatosporium*. Nag Raj (1993) disagreed, instead following Brockmann (1975) who retained the genus *Sporocadus* (with type *Sporocadus lichenicola*) and considered *Seimatosporium hysteroioides* to be a distinct species.

Distribution: Australia, Europe.

Substrate: Dead canes (Nag Raj 1993). Also reported on fruits.

Host: *Vitis vinifera* and *Vitis* sp. (Vitaceae).

Internal Note: Nag Raj (1993) lists *Monochaetia ellisiana* as a synonym (p. 822), but this is probably an error, as he also lists it as unexamined on p. 503.

Supporting Literature:

Brockmann, I. 1975. Untersuchungen ueber die Gattung *Discostroma* Clements (Ascomycetes). Sydowia 28: 275-338.

Huhndorf, S.M. 1992. Systematics of *Leptosphaeria* species found on the Rosaceae. Illinois Nat. Hist. Survey, Biol. Notes 34: 480-533.

Nag Raj, T.R. 1993. Coelomycetous anamorphs with appendage-bearing conidia. Mycologue Publications, Waterloo, Ontario, 1101 pages.

Shoemaker, R.A. 1964. *Seimatosporium* (= *Cryptostictis*) parasites of *Rosa*, *Vitis*, and *Cornus*. Canad. J. Bot. 42: 411-421.

Shoemaker, R.A., and Mueller, E. 1964. Generic correlations and concepts: *Clathridium* (= *Griphosphaeria*) and *Seimatosporium* (= *Sporocadus*). Canad. J. Bot. 42: 403-410.

Sutton, B.C. 1980. The Coelomycetes. Fungi Imperfecti with Pycnidia, Acervuli and Stromata. Commonwealth Mycological Institute, Kew, Surrey, England : 696.

Verified By: Erica On Feb 09, 2006

***Seimatosporium salicinum* (Corda) Nag Raj 1993 (Ascomycetes, Xylariales)**

≡ *Didymosporium salicinum* Corda 1837

≡ *Coryneum salicinum* (Corda) Sacc. 1884 Note: Reports from North Dakota are *Seimatosporium lichenicola* (Corda) Shoemaker & E. Müller (1964).

= *Sporocadus caudata* Preuss 1851 Note: Listed by Brockmann (1975) as a synonym of *Seimatosporium rosae*, but transferred by Nag Raj (1993) to synonymy with *Seimatosporium salicinum*.

≡ *Seimatosporium caudatum* (Preuss) Shoemaker 1964

≡ *Cryptostictis caudata* (Preuss) Sacc. 1884

= *Monochaetia excipuliformis* Bubák 1906 Note: Considered by Sutton (1980) to be a synonym of *Seimatosporium lichenicola* = *Sporocadus lichenicola*.

= *Hendersonia foliorum* Fuckel 1870

≡ *Coryneum foliorum* (Fuckel) Petr. 1920

≡ *Leptocoryneum foliorum* (Fuckel) Petr. 1925

= *Pestalotia hendersonioides* Fautrey 1893 Note: Originally published as *Pestalozzia*.

Variant spelling *Pestalozzia hendersonioides* Fautrey 1893

- ≡ *Monochaetia hendersonioides* (Fautrey) Sacc. 1902
- ≡ *Cryptostictis hendersonioides* (Fautrey) Guba 1961
- = *Cryptostictis ludibunda* Vestergr. 1897
- = *Cryptostictis moravica* Petr. 1923 Note: Considered by Sutton (1980) to be a synonym of *Seimatosporium lichenicola* = *Sporocadus lichenicola*.
- ≡ *Basipilus moravicus* (Petr.) Subram. 1961
- = *Hendersonia ribis-alpini* Fautrey 1892
- ≡ *Seimatosporium ribis-alpini* (Fautrey) Shoemaker & E. Müll. 1964
- = *Monochaetia rubi* Lebezh. 1959

Notes: Synonymy follows Nag Raj (1993), but see Sutton (1980), who follows Shoemaker (1964). According to Nag Raj (1993), *Coryneum salicis* Tognini 1899 is a possible synonym.

Distribution: Europe (including Russia).

Substrate: Twigs and dead branches.

Host: *Ribes* (Grossulariaceae), *Rubus* (Rosaceae), and *Salix* spp. (Salicaceae) (Nag Raj 1993). Also reported on other plant families.

Supporting Literature:

Brockmann, I. 1975. Untersuchungen ueber die Gattung *Discostroma* Clements (Ascomycetes). Sydowia 28: 275-338.
Nag Raj, T.R. 1993. Coelomycetous anamorphs with appendage-bearing conidia. Mycologue Publications, Waterloo, Ontario, 1101 pages.
Shoemaker, R.A. 1964. *Seimatosporium* (= *Cryptostictis*) parasites of *Rosa*, *Vitis*, and *Cornus*. Canad. J. Bot. 42: 411-421.
Sutton, B.C. 1980. The Coelomycetes. Fungi Imperfecti with Pycnidia, Acervuli and Stromata. Commonwealth Mycological Institute, Kew, Surrey, England : 696.

Verified By: Erica On Feb 09, 2006

The synonymy listed above is based on Nag Raj (1993). Sutton (1980) followed Shoemaker (1964), who considered *Seimatosporium ribis-alpini* and *Seimatosporium caudatum* to be distinct species, and placed *Cryptostictis moravica* and *Monochaetia excipuliformis* as synonyms of *Sporocadus lichenicola* (as *Seimatosporium lichenicola*). According to Nag Raj (1993), *Coryneum salicis* Tognini 1899 is a possible synonym of *Seimatosporium salicinum*.

Written by Erica Cline, 14 February 2006