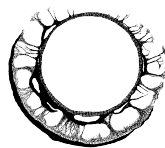


FRAGILE ITEMS

Key to *Sistotrema*

Monomitic corticioid fungi with urniform basidia, without dendrohyphidia
and with non-amyloid, thin-walled, smooth basidiospores

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Used shortenings:

CB+/-	dextrinoidity
Distr.	distribution
IKI+/-	amyloidity
Refs.	references
smt.	sometimes
smw.	somewhat
st.	sterigmata
Substr.	substrate
SV	sulphovanilline
	description and images available in aphyllo.net

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Key

- 1.1 Hyphae simple-septate. 2
- 1.2 Hyphae fibulate. 7
- 2.1 Spores lanceolate, filiform, 24–30 x 1.5–2 µm.
Effused, farinaceous, smooth, very thin, white. Hyphae simple-septate, 2–8 µm; subicular up to 8 µm with thickening wall. Cystidia tubular-clavate-irregular, up to 70 x 6 µm. Basidia suburniform to subcylindrical, 24–30 x 3–6 µm; 4 st.
Distr.: Great Britain. – Substr.: *Pteridium aquilinum*. – Refs.: [35¹¹]
Sistotrema aciferum P. Roberts & Henrici 2008
- 2.2 Spores differently shaped. 3
- 3.1 Cystidia (gloeocystidia) present.
Effused, membranaceous, smooth, thin, whitish, pale yellowish. Hyphae simple-septate, 1.5–2.5 µm. Gloeocystidia subcylindrical-irregular, smt. bi-rooted, smt. with apical schizopapilla, (15) 20–30 (40) x (2.5) 3.5–5 (6) µm. Basidia urniform, 14–25 x 4–6 µm; 4 st. Spores narrowly ellipsoid to cylindrical, (5) 6–8.5 x 2–2.8 µm.
Distr.: France. – Substr.: *Fraxinus excelsior*, *Rubus idaeus*. – Refs.: [3¹⁸⁹] 
Sistotrema gloeocystidiatum Boidin & Gilles 1994
- 3.2 Cystidia (gloeocystidia) absent. 4
- 4.1 Spores subfusiform, narrowly ellipsoid often tapering toward the apiculus, longer than 9 µm.
Effused, adherent, porulose, reticulate, smooth, thin, whitish-grey. Hyphae simple-septate; subhymenial 2–3 µm; subicular 4–7 µm, with thickening wall. Basidia urniform, with an elongated neck, subcylindrical, smt. peduncolate, (20) 25–35 (40) x 6–7.5 µm (base); (4) 6 st. Spores narrowly ellipsoid often tapering toward the apiculus, subfusiform, 9–11 (12) x 4–4.5 (5) µm
Distr.: Europe. – Substr.: angio, gymno, litter, needles. – Refs.: [13¹³⁵⁵]
Sistotrema pyrosporum Hauerslev 1974
- 4.2 Spores differently shaped and shorter. 5
- 5.1 Spores subangular, broadly ellipsoid, wider than 3.5 µm.
Effused, adherent, hypochnoid to membraceous, smooth, whitish to yellowish. Hyphae simple-septate, 2–3.5 µm. Basidia urniform, 20–25 x 5–6 µm; 6 (8) st. Spores 5–6 x 3.5–4 µm
Distr.: Europe. – Substr.: gymno, *Pinus sp.*, bark. – Refs.: [41⁴⁷⁹, 13¹³⁶⁵, *ibid.*, 24³¹⁸, 4²⁴⁹, p.p.]
Sistotrema citriforme (M.P. Christ.) K.H. Larss. & Hjortstam 1987
- 5.2 Spores ellipsoid to cylindrical, up to 3.5 µm in diam. 6
- 6.1 Hyphae 5–8 µm in diam., spores (6) 7–8 (9) x 3–3.5 (4) µm.
Effused, arachnoid-pruinose, smooth, very thin, whitish. Hyphae simple-septate, subicular with thickening wall. Basidia urniform, smt. with a long neck (tubular), 15–45 x 6–8 µm; (4) 6 (8) st. Spores narrowly ellipsoid to cylindrical.
Distr.: Argentina. – Substr.: *Nothofagus pumilio*. – Refs.: [16¹³⁹²]
Sistotrema botryobasidioides Gresl. 2001

- 6.2 Hyphae 2–6 µm in diam., spores (4.5) 5–6 (7.5) x 2.5–3 µm.
Effused, smooth, very thin, whitish, greyish. Hyphae simple-septate; subicular thickening wall, smt. ampullate at the septa. Basidia urniform (15) 18–22 (25) x 5–7 µm; 6 st. Spores ellipsoid, narrowly ellipsoid, cylindrical, often glued together.
Distr.: S.America, Europe. – Substr.: angio, gymno, needles, bark, wood. – Refs.: [13:¹³³⁷]
Sistotrema efibulatum (J. Erikss.) Hjortstam 1984
- 7.1 Cystidia present. 8
- 7.2 Cystidia absent. 19
- 8.1 Cystidia (gloeocystidia) cylindrical to tubular, with or without constrictions, normally enclosed and with yellowish content. 9
- 8.2 Cystidia (leptocystidia) capitate, broadly clavate, ovoid, subglobose, ventricose, mostly hymenial, projecting or not. 16
- 9.1 Basidia with 1–4(5) sterigmata. 10
- 9.2 Basidia with 6–8 sterigmata. 12
- 10.1 Spores 5–7.5 (9) µm long
Effused, adherent, smooth, slightly tuberculate, whitish. Hyphae fibulate, 3–7 µm; subicular often ampullate at the septa. Gloeocystidia cylindrical-irregular, 50–80 x 5–8 µm. Basidia urniform with a long neck, 15–30 x 3.5–6 µm; (2) 4 st. Spores cylindrical, suballantoid. Smt. with bulbils
Distr.: Africa, N.America, S.America, Asia-Temperate, Asia-Tropical, Europe. – Substr.: angio, basidio, fungi, gymno, wood. – Refs.: [13:¹³⁶¹, 10:⁴⁵] 
Sistotrema sernanderi (Litsch.) Donk 1956
- 10.2 Spores 7–12 (14) µm long 11
- 11.1 Basidia with 2 sterigmata
Effused, adherent, farinaceous or tufted-porulose to smooth, greyish to whitish. Hyphae fibulate; basal distinct 2–7 µm, sometimes ampullate, with thickening wall. Gloeocystidia cylindrical to tubular, slightly irregular, sinuous, obtuse, smt. with short outgrows toward the base, 45–80 x 3–7.5 µm. Basidia urniform to subcylindrical, (10) 15–30 x (3) 4–7 µm; 1–2 (5) st. Spores cylindrical, adaxial side flattening or slightly depressed, often with a light median compression in frontal view, 7–12 (14) x 2–3.5 µm
Distr.: Primorsk Terr.. – Substr.: *Corylus heterophylla*. – Refs.: [10:⁴⁶, 33:²⁰⁹]
Sistotrema pereximium (Parmasto) Domanski 1992
- 11.2 Basidia with 4 sterigmata
Effused, loosely adherent, smooth, greyish white, brownish grey when dry. Hyphae fibulate less than 3.7 µm wide, basal with ampullate swellings. Basidia suburniform to urniform, 20–34 x 8–9 µm; 4 st. Spores narrowly ellipsoid to suballantoid, 8–11.5 x 3–3.7 µm
Distr.: West Himalaya. – Substr.: *Cedrus deodara*. – Refs.: [26:⁶⁷⁶]
Sistotrema macrosporum Man. Kaur & al. 2019

- 12.1 Spores subglobose to drop or pip-shaped, 2.5–4 x 2–3.5 μm .
 Effused, loosely adherent, membranaceous, pellicular, smooth, very thin, whitish; with hyphal strands. Hyphae fibulate, 2.5–8 μm . Gloeocystidia poorly differentiated, cylindrical-irregular, 20–62 x 4.5–7 μm , often embedded in a hyaline to yellowish resinous matter. Basidia urniform, rarely pleural, (12) 14–25 (28) x 6–7.5 μm ; (4) 6–8 st.
 Distr.: Europe. – Substr.: angio, gymno. – Refs.: [12:²]
Sistotrema henri-michel Duhem & al. 2011
- 12.2 Spores elongated, subcylindrical to allantoid in side view. 13
- 13.1 Gloeocystidia toruloid to moniliform, with yellow-ochre content. 14
- 13.2 Gloeocystidia cylindrical to sinuous, without or with faint constrictions, with hyaline to yellowish content. 15
- 14.1 Spores 4–5.5 x 2–3 μm .
 Effused, adherent, smooth, tuberculate, grandinioid, thin, whitish, light ochraceous. Hyphae fibulate, 2–5 μm . Gloeocystidia cylindrical-irregular to moniliform, 40–60 x 6–8 μm , yellow-brown content. Basidia urniform with a long neck, 17–30 x 5–6 μm ; (4) 6 (8) st. Spores ellipsoid, subovoid.
 Distr.: Africa, N.America, S.America, Asia-Temperate, Europe. – Substr.: angio, gymno, wood. – Refs.: [19:⁴⁶⁶, 13:¹³⁵⁹, 10:³²]
Sistotrema resinicystidium Hallenb. 1980
- 14.2 Spores (5) 5.5–7.5 (8) x 2.4–3.5 (4) μm .
 Effused, membranaceous to papyraceous, loosely adherent to separable, thin, smooth to slightly tuberculated, cream to ochraceous or brownish. Hyphae fibulate; basal 4–8 μm , often ampullate. Gloeocystidia sinuous, irregularly moniliform, 50–80 (100+) x 7–13 (15) μm , yellow-amber content. Basidia urniform with a long neck, 15–30 x 5.5–6.5 μm ; 5–8 st. Spores narrowly ellipsoid to subcylindrical, often slightly depressed, smt. tapering toward the apiculus.
 Distr.: France. – Substr.: *Pinus* sp., *Pinus sylvestris*. – Refs.: [10:³⁵]
Sistotrema resinicystidioides Duhem 2013
- 15.1 Spores 3–5 (5.5) x (1.3) 1.5–2 (2.5) μm .
 Effused, adherent, pruinose, smooth, subceraceous, very thin, greyish, whitish. Hyphae fibulate, 2–5.5 μm , hyaline, oily content; subicular with slightly thickening wall. Gloeocystidia cylindrical-irregular, 18–60 x (3.5) 5–8 (10) μm , oily content. Basidia urniform, 9–18 (22) x (3.5) 4–5.5 (6.5) μm ; 6–8 st. Spores suballantoid, allantoid, subreniform.
 Distr.: Europe. – Substr.: angio, fungi, gymno, bark, wood. – Refs.: [11:²⁰²] 
Sistotrema tholliae Duhem & Schultheis 2013
- 15.2 Spores 5–7 (7.5) x (1.5) 2–2.8 μm .
 Effused, adherent, porulose, smooth, whitish to pale yellow. Hyphae fibulate, 2–5.5 μm , hyaline, oily content; subicular mostly thin-walled. Gloeocystidia 18–60 x (3.5) 5–8 (10) μm . Basidia urniform, 15–20 (25) x 5–8 μm ; (4) 6 (8) st. Spores narrowly ellipsoid, subcylindrical, suballantoid.
 Distr.: Northern hemisphere. – Substr.: angio, basidio, gymno, timber, wood. – Refs.: [13:¹³²⁹, 10:¹⁹] 
Sistotrema coroniferum (Höhn. & Litsch.) Donk 1956

- 16.1 Cystidia capitate.
Effused, loosely adherent, pellicular, smooth, thin, whitish. Hyphae fibulate, 3–6 μm ; subicular with thin or thickening wall, smt. ampullate at the septa. Cystidia (25) 40–70 x 6–7 (9) (base) x 2–4 (stem) x 6–8 (9) μm (top). Basidia urniform, suburniform, 20–35 x 4–6 μm ; 6 (8) st. Spores subglobose, drop-shaped, subangular, 4–5 μm across or 3.5–5 x 3.2–4.5 μm .
Distr.: Africa, Europe. – Substr.: angio, gymno, mosses. – Refs.: [1:¹³⁵², 3:²⁰⁹]
Sistotrema pistilliferum Hauerslev 1974
- 16.2 Cystidia not capitate..... 17
- 17.1 Spores often with depressed adaxial side, subreniform, up to 3.5–4.5 x 2.2–2.6 μm .
Effused, adherent, pruinose, porulose, granulose, finely grandinioid, white, greyish-white or bluish-white. Hyphae fibulate, 2.5–6 (11.5) μm . Cystidia ventricose, clavate, globose, 10–25 x 6.5–13.5 μm , smt. shortly peduncolate. Basidia urniform, 11–22 x 3.8–6 μm ; 6–8 st.
Distr.: Italy. – Substr.: *Fagus sylvatica*. – Refs.: [7:⁴²]
Sistotrema ampullaceum Duhem 2011
- 17.2 Spores with flattening or only slightly depressed adaxial side, longer than 4.5 μm 18
- 18.1 Basidia botryose, stout, 8–15 μm long; cystidia with small papillae.
Effused, araneose, pruinose, very thin, greyish-white. Hyphae fibulate, (2) 3–4 μm . Cystidia subglobose to broadly clavate, 12–20 x 10–13 μm . Basidia 8–15 x 5–9 μm ; 4–8 st. Spores (4) 4.5–5 (6) x 2–2.5 (3) μm .
Distr.: Argentina. – Substr.: *Nothofagus pumilio*. – Refs.: [16:¹³⁹³]
Sistotrema globosum Gresl. 2001
- 18.2 Basidia urniform to suburniform, 12–25 μm long; cystidia smooth.
Effused, smooth, porulose when dry. Hyphae fibulate, 2.5–4 μm , thin-walled. Cystidia subglobose to ovoid, 20–35 x 8–16 μm , with thin or thickening wall. Basidia 12–25 x 5.5–7 μm ; 6–8 st. Spores subcylindrical, 5–7 x 2.5–3 μm .
Distr.: France. – Substr.: *Pinus pinaster*. – Refs.: [3:²¹⁷]
Sistotremastrum lateclavigerum Boidin & Gilles 1994
- 19.1 Hymenophore odontoid, hydroid, irpicoid, poroid. 20
- 19.2 Hymenophore smooth to grandinioid or slightly tuberculate. 28
- 20.1 Basidiome flabellate, spatulate, stipitate. 21
- 20.2 Basidiome effused. 22
- 21.1 Spores narrowly ellipsoid, subcylindrical, (4) 4.5–6 x 2–2.5 (3) μm .
Concrescent, soft whitish, parts turning ochraceous when old. Hymenophore reticulate poroid to irpicoid or hydroid, teeth up to 2 mm long. Hyphae fibulate, 2–5 (7) μm . Basidia urniform, (12) 14–25 (45) x (3.5) 4–6 (8) μm ; 6–8 st.
Distr.: Africa, N.America, Asia-Temperate, Asia-Tropical, Europe. – Substr.: angio, gymno, litter, mosses, needles, roots, timber, wood. – Refs.: [13:¹³²⁵, 34, 37:⁶¹², 38:³⁸⁵]

Sistotrema confluens Pers. 1794

- 21.2 Spores ellipsoid to narrowly ellipsoid, (3.7) 3.9–4.2 (4.5) x 2–2.3 (2.4) μm .
 Infundibuliform, centrally or laterally stipitate. Hymenophore poroid. Hyphae fibulate, 2–5 μm diam., thin-walled. Basidia urniform, 10–18 x 4–7 μm ; 6 st.
 Distr.: Manchuria. – Substr.: timber. – Refs.: [45¹⁸⁰]
Sistotrema subconfluens L.W. Zhou 2013
- 22.1 Hymenophore odontoid to hydroid..... 23
- 22.2 Hymenophore poroid..... 25
- 23.1 Spores subglobose to broadly ellipsoid, 3–5 x 2.5–3.5 μm .
 Effused, loosely adherent, separable, soft membranaceous, odontoid, hydroid, irpicoid, subporoid, whitish, yellowish; teeth up to 2 mm long. Hyphae fibulate, 2–5 μm , smt. ampullate at the septa. Basidia urniform, 12–20 (25) x 5–7 μm (base); 6 st.
 Distr.: Northern hemisphere. – Substr.: angio, gymno, leaves, lichens, litter, mosses, needles, ferns, stones, worked timber, wood. – Refs.: [13¹³⁴³, p.p., 36⁶²] 
Sistotrema muscicola (Pers.) S. Lundell 1947
- 23.2 Spores elongated, longer than 6 μm 24
- 24.1 Spores subfusiform, narrowly ellipsoid, often slightly broader toward the base, (6) 6.5–8.5 (9) x (2.2) 2.8–3.5 μm .
 Effused, adherent, odontoid, hydroid, whitish, pale buff; subiculum thin; aculei up to 4 mm long. Hyphae fibulate, 2–6 μm ; subicular with slightly thickening wall. Basidia urniform, 18–20 (25) x 6.5–8 μm (base); (4) 6–8 st.
 Distr.: N.America, S.America, Asia-Temperate, Europe. – Substr.: angio, gymno, wood. – Refs.: [13¹³⁵⁷, 3²¹²]
Sistotrema raduloides (P. Karst.) Donk 1956
- 24.2 Spores narrowly ellipsoid, 9–10.5 x 2.8–3 μm .
 Effused, pruinose, membranaceous, smooth with scattered spines, odontoid, whitish, pale buff, with hyphal strands; aculei up to 1 mm long. Hyphae fibulate, 2.4–6.5 μm ; subicular with rare ampullate septa. Basidia urniform, (15) 25–35 x 6 μm ; 4–6 st.
 Distr.: Yukon. – Substr.: *Populus tremuloides*. – Refs.: [14⁶⁷]
Sistotrema populicola Ginns 1988
- 25.1 Spores globose to subglobose..... 26
- 25.2 Spores elongated..... 27
- 26.1 Basidia with 2–4 sterigmata; spores 4.5–6 μm across.
 Effused, loosely adherent, soft, brittle when dry, pores angular, 1–4/mm, 1–2 mm thick, whitish to pale yellowish. Hyphae fibulate, 2–8 μm . Basidia urniform, 20–30 (35) x (6) 7–10 (11) μm .
 Distr.: Northern hemisphere. – Substr.: angio, gymno, litter, mosses, stones, timber. – Refs.: [13¹³¹², 15²⁰, 38³⁸⁴]
Sistotrema alboluteum (Bourdot & Galzin) Bondartsev & Singer 1941
- 26.2 Basidia with 6–8 sterigmata; spores 3–4 μm across.
 Effused, pores angular, 4/mm, thin, whitish. Hyphae fibulate, 2.5–4 μm . Basidia urniform, 12–18 μm . Spores subglobose, broadly ellipsoid, 3–4 x 2.5–3 μm .
 Distr.: Europe. – Substr.: ferns, gymno, litter, stones. – Refs.: [36⁶²]
Sistotrema albopallescens (Bourdot & Galzin) Bondartsev & Singer 1941

- 27.1 Basidiome pale ochraceous to brownish; spores narrowly ellipsoid to cylindrical, adaxial side flattening.
Effused, soft-waxy and fragile, soft-corky when dry, pores angular, lacerate, (3) 4-6/mm, up to 5 mm thick. Hyphae fibulate, subhymenial 2.5-4 µm, subicular 3.5-7 µm, CB±. Basidia urniform, 15-22 x 4.5-6 (7) µm; 2-4 st. Spores (4.3) 4.6-6.7 (7.3) x (2.3) 2.5-2.9 (3.4) µm
Distr.: Russia Central. – Substr.: *Populus tremula*. – Refs.: [40^{:57}]
Sistotrema brunneolum Spirin & Zmitr. 2007
- 27.2 Basidiome whitish; spores subcylindrical, adaxial side flattening or slightly depressed.
Effused, loosely adherent, soft, delicate, brittle when dry, pores rounded to angular. Hyphae fibulate, 2-5 µm; subicular smt. ampullate at the septa. Basidia urniform, 14-20 x 5-7 µm; 6 st. Spores 4-5.5 (6) x 2-2.5 (3) µm
Distr.: Africa, Asia-Temperate, Europe. – Substr.: angio, gymno, litter, wood. – Refs.: [28^{:105}, 13^{:1331}]
Sistotrema dennisii Malençon 1976
- 28.1 Spores isodiametric or almost so: globose, subglobose, broadly ellipsoid, ovoid, obovoid or ±angular, adaxial side convex or sometimes flattening..... 29
- 28.2 Spores elongated 36
- 29.1 Spores tetrahedral, distinctly 3-4 angular.
Effused, adherent, smooth, very thin, whitish. Hyphae fibulate, 2.5-5 µm. Basidia urniform, 12-18 x 4-6 µm; 6-8 st. Spores 4.5-5 x 3-4.5 µm.
Distr.: Africa, N.America, S.America, Asia-Tropical, Europe, Pacific. – Substr.: angio, gymno, wood. – Refs.: [13^{:1365}] 
Sistotrema subtrigonospermum D.P. Rogers 1935
- 29.2 Spores differently shaped..... 30
- 30.1 Spores often slightly angular to somewhat biapiculate; basidiome relatively thick, yellowish to yellowish-green.
Effused, adherent, tough, smooth. Hyphae fibulate; subhymenial 2.5-4 µm; basal short-celled 3-9 µm often almost isodiametric. Basidia urniform to subcylindrical, smt. narrowed at the base, (19) 21-36 (40) x 6-8 (9) µm; 6 st. Spores (4.5) 5-6 x (3.5) 4-5 µm.
Distr.: Finland. – Substr.: *Juniperus communis*, *Populus tremula*. – Refs.: [27^{:220}]
Sistotrema luteoviride Kotir. & K.H. Larss. 2013
- 30.2 Spores different; basidiome mostly whitish..... 31
- 31.1 Basidia up to 10 µm long; spores 2.5-3.5 x 2.3-2.5 µm.
Effused, loosely adherent, farinaceous, smooth, whitish. Hyphae fibulate, 2-3.3 µm. Basidia urniform, 8-9.5 x 3-4 µm; 6-8 st. Spores subglobose.
Distr.: Alaska, British Columbia, Veracruz. – Substr.: angio, gymno. – Refs.: [20^{:406}]
Sistotrema farinaceum Hallenb. 1984
- 31.2 Basidia longer; spores larger..... 32

- 32.1 Basal hyphae short-celled, irregular, swollen, sausage-shaped, up to 16 µm in diam., thick-walled. 33
- 32.2 Basal hyphae almost regular or if irregular then thin-walled. 34
- 33.1 Basal hyphae finely and densely incrustated (at least in IKI and CB); spores 3–4 (4.5) x 2–2.6 µm.
 Effused, adherent, thin, whitish. Hyphae fibulate; subhymenial 1.5–5 µm; basal up to 10 µm in diam, sausage-shaped, finely and densely incrustated in CB and IKI. Basidia urniform to subcylindrical, 9–25 (30) x 4.4–5.5 µm; 6–8 st. Spores broadly ellipsoid with a flattening adaxial side.
 Distr.: France. – Substr.: angio, wood. – Refs.: [9:⁹⁸]
Sistotrema gerard-trichies Duhem 2013
- 33.2 Basal hyphae smooth; spores (3.8) 4–5.5 (6) x 3.3–4.2 µm.
 Hyphae fibulate. Basidia urniform, 13–27.5 x 5.5–7.5 µm; 5–7 st. Spores broadly ellipsoid.
 Distr.: France. – Substr.: *Picea abies*. – Refs.: [8:¹⁰⁵]
Sistotrema sommandense Duhem 2011
- 34.1 Spores up to 4.5 (5) µm long.
 Effused, adherent to loosely adherent, farinose, porulose, pelliculose, smooth, whitish, yellowish, ochraceous. Hyphae fibulate, 3–5 µm, subicular smt. up to 10 µm, with thickening wall. Basidia urniform, smt. with a long neck, 11–30 (40) x 4.5–6.5 µm; 6–8 st. Spores broadly ellipsoid, slightly tapering toward the apiculus, drop-shaped, (2.5) 3–4.5 (5) x (2) 2.2–3 (3.3) µm.
 Distr.: Africa, N.America, S.America, Asia-Temperate, Asia-Tropical, Europe. – Substr.: angio, ferns, gymno, herbs, leaves, bark, wood. – Refs.: [7:⁴⁶⁻⁵⁴, type rev.]
Sistotrema diademiferum (Bourdot & Galzin) Donk 1956
- 34.2 Spores 5–7 µm long. 35
- 35.1 Basal hyphae 6–8 (10) µm wide.
 Effused, loosely adherent, smooth, whitish. Hyphae fibulate. Basidia urniform, 16–24 x 5–7 (9) µm; (4) 6 (8) st. Spores pyriform to ovoid, broadly ellipsoid, (5) 5.5–7 x (3.5) 4.5–5 µm
 Distr.: New Zealand. – Substr.: wood. – Refs.: [17:⁶⁷, 42:³³¹, 5:³²⁴]
Sistotrema otagense (G. Cunn.) Stalpers & P.K. Buchanan 1991
- 35.2 Basal hyphae 2–3 µm wide.
 Effused, adherent, smooth, subceraceous, thin, greyish when fresh, when dry yellowish and porulose. Hyphae fibulate. Basidia urniform, 17–22 (25) x 6–7 µm; 4–5 (6) st. Spores subglobose, more or less isodiametric, 5–6 (6.5) x 4–5 µm.
 Distr.: Martinique. – Substr.: *Coccoloba uvifera*. – Refs.: [17:⁶⁶]
Sistotrema macabouense G. Gruhn & al. 2017
- 36.1 Basidia with 1–4 sterigmata. 37
- 36.2 Basidia with 6–8 sterigmata. 42
- 37.1 Basidia mostly with 2 sterigmata. 38
- 37.2 Basidia mostly with 4 sterigmata. 39

- 38.1 Spores ellipsoid to subcylindrical, 8–10.5 x 5.5–6 µm.
Effused, pruinose, porulose, smooth, very thin, whitish. Hyphae fibulate, 3.5–4.5 µm. Basidia urniform, often with a long neck, 20–25 x 7–8.5 µm; 2 (4) st.
Distr.: North Caucasus, Ontario. – Substr.: *Pinus strobus*, wood. – Refs.: [25¹⁵²]
Sistotrema eximum (H.S. Jacks.) Ryvarden & Solheim 1977
- 38.2 Spores ellipsoid to subfusiform, (8) 10–16 (18) x (5.5) 6–8 µm.
Effused, porose-reticulate then subpellicular, subceraceous, smooth, thin, whitish. Hyphae fibulate, 3–4 (6) µm; subicular smt. ampullate at the septa. Basidia subcylindrical to narrowly urniform 25–50 x 5–7 µm; 2 st.
Distr.: Europe. – Substr.: angio. – Refs.: [39³⁷⁸, 13¹³¹⁷, 3¹⁸⁹]
Sistotrema autumnale Ryvarden & H. Solheim 1977
- 39.1 Spores up to 8 µm long. 40
- 39.2 Spores longer than 8 µm. 41
- 40.1 Basidiome adherent, becoming grandinioid.
Effused, adherent, porulose, grandinioid, whitish. Hyphae fibulate, 2–4 µm. Basidia urniform, 15–20 x (4) 5.5–7 µm; 4 st. Spores subcylindrical, suballantoid, 5.5–7 (8) x 3–4 µm.
Distr.: Africa, Europe. – Substr.: angio, ferns, gymno. – Refs.: [6¹³⁰, 21sub *S. quadrisporum*]
Sistotrema hispanicum M. Dueñas & al. 1988
- 40.2 Basidiome pellicular, smooth.
Effused, adherent, ceraceous, up to 0.3 mm thick, whitish. Hyphae fibulate, 2.5–5 (6) µm, greyish to yellow-olivaceous with SV. Basidia urniform with an elongated neck, 20–28 x 4.5–5.5 µm; 4 st. Spores (6.5) 7–8 (8.5) x 3–3.5 µm.
Distr.: Estonia. – Substr.: angio. – Refs.: [32²²⁴]
Galzinia athelioides Parmasto 1965
- 41.1 Spores with convex adaxial side.
Effused, adherent, porulose, smooth, indistinctly tuberculate, cracking when dry, whitish. Hyphae fibulate, 3–5 µm, subicular straight and uniform, with thickening wall. Basidia urniform, 30–40 x 6–7 µm; (2) 4 st. Spores subamigdaliform, 8–10 (11) x 4.5–5.5 (6.5) µm.
Distr.: Europe. – Substr.: *Salix nigricans*, *Salix sp.* – Refs.: [22⁵⁷⁸, 13¹³⁴⁰]
Sistotrema intermedium Hjortstam 1983
- 41.2 Spores with flattening to depressed adaxial side.
Effused, farinose, araneose, porulose, smooth, white. Hyphae fibulate, 3–4 µm. Basidia urniform, 19–32 x 6–7 µm (base); (2) 4 st. Spores narrowly ellipsoid, subfusiform, slightly depressed, 6.5–9 x 3–4 µm.
Distr.: Europe. – Substr.: *Alnus viridis*. – Refs.: [3¹⁸⁷]
Sistotrema alni Boidin & Gilles 1994
- 42.1 Spores with distinctly depressed adaxial side. 43
- 42.2 Spores with convex, flattening or only slightly depressen adaxial side. 50

- 43.1 Spores up to 6.5 μm long..... 44
- 43.2 Spores longer than 6 μm 48
- 44.1 Spores 3-4 x 1.5 μm ; basidia up to 10 μm long.
 Effused, adherent, reticulate, smooth, very thin, whitish. Hyphae fibulate, 1.5–4 μm .
 Basidia urniform, 6.5–9.5 x 3.5–4 μm ; 6–8 st.
 Distr.: Japan, Sichuan. – Substr.: angio, *Castanopsis cuspidata*. – Refs.: [30:¹²²]
Sistotrema microsporum N. Maek. 1993
- 44.2 Spores and basidia larger..... 45
- 45.1 Basidiome granulose to grandinioid
 Effused, soft, whitish. Hyphae fibulate, 3–6 μm ; subicular with thickening wall. Basidia
 urniform, 12–20 (24) x 3–6 (7) μm ; 6–8 st. Spores subballantoid 4–4.5 x 2–2.5 μm .
 Distr.: Africa, N.America, S.America, Antarctic, Asia-Temperate, Asia-Tropical,
 Europe, Pacific. – Substr.: angio, basidio, ferns, Fungi, gymno, litter, worked timber,
 bark, wood. – Refs.: [20:³⁹², 13:¹³¹⁷]
Sistotrema brinkmannii (Bres.) J. Erikss. 1948
- 45.2 Basidiome pruinose, porulose, becoming smooth (never grandinioid)..... 46
- 46.1 Spores somewhat bananiform, tapering toward the apiculus.
 Effused, pruinose to tufted, greyish-ochraceous. Hyphae fibulate, 1–4 μm in diam; in hy-
 menium embedded in yellowish resinous material (CB). Basidia botryose to suburniform,
 9–20 (25) x 3.5–6 μm ; 6–8 st. Spores 4–6 (6.5) x 1.5–2.2 (2.5) μm .
 Distr.: France. – Substr.: angio, wood. – Refs.: [9:⁹⁴]
Sistotrema janus Duhem & Trichies 2013
- 46.2 Spores with obtuse ends..... 47
- 47.1 On *Hevea brasiliensis* in Malaysia; with *Ingoldiella* imperfect state in culture.
 Effused, pruinose, powdery or granular, thin, white. Hyphae fibulate. Basidia urni-
 form; (4) 8 st. Spores subcylindrical, subballantoid, 5–6 x 1.5–1.8 μm Imperfect state:
Ingoldiella hamata
 Distr.: Malaysia. – Substr.: *Hevea brasiliensis*. – Refs.: [31:²⁸⁷]
Sistotrema hamatum Nawawi & J. Webster 1982
- 47.2 On other substrates, common species with worldwide distribution.
 Effused, adherent, pruinose, smooth, ceraceous, very thin, whitish, light greyish. Hyphae
 fibulate, 2.5–3.5 μm diam.. Basidia urniform, 15–18 (22) x 4–6 μm ; 6–8 st. Spores
 cylindrical, subballantoid (4.5) 5–6 x 1.5–2 μm .
 Distr.: Worldwide. – Substr.: angio, gymno, bark, wood. – Refs.: [13:¹³⁴⁷]
Sistotrema oblongisporum M.P. Christ. & Hauerslev 1960
- 48.1 Spores subnavicular, somewhat bananiform; basidia up to 20 μm long.
 Effused, araneose, pruinose, subpellicular, thin, whitish. Hyphae fibulate, 3–4 μm . Cy-
 stidia absent. Basidia urniform, 15–20 x 5–7.5 μm ; 6–8 st. Spores (5) 7–9 x 2–2.5
 μm .
 Distr.: Australia. – Substr.: timber. – Refs.: [44:⁵¹⁰]
Sistotrema hypogaeum Warcup & P.H.B. Talbot 1962
- 48.2 Spores subballantoid to allantoid; basidia often longer..... 49

- 49.1 Basidiome adherent; basal hyphae regular, thin-walled, not forming strands.
Effused, smooth, thin, whitish. Hyphae fibulate, 2.5–4.5 µm. Basidia urniform, with elongated neck, 25–32 x 5–6 µm; (6) 8 st. Spores (6.3) 7–9 (10) x 1.8–2.5 µm.
Distr.: Reunion. – Substr.: *Stellia* sp. – Refs.: [2:¹³⁴]
Sistotrema cadetii Boidin & Gilles 1994
- 49.2 Basidiome pellicular; basal hyphae often with ampullate septa, some with thickening wall, sometimes forming strands.
Effused, smooth, thin, whitish, light ochraceous. Hyphae fibulate, 2.5–5.5 µm. Basidia urniform, 14–30 x 5.5–6.5 µm; 4–8 st. Spores cylindrical, subballantoid, 7–9 x 2–2.5 µm.
Distr.: Asia-Temperate, Europe. – Substr.: *Castanea sativa*, *Populus alba*. – Refs.: [19:⁴⁶⁸]
Sistotrema suballantosporum Hallenb. 1980
- 50.1 Basal hyphae 7–10 µm in diam., brownish and cyanophilous.
Effused, loosely adherent, porulose, pellicular, smooth, thin, whitish; smt. with hyphal strands. Hyphae fibulate. Basidia urniform, 18–25 (30) x 6–7 µm; 6–8 st. Spores narrowly ellipsoid, adaxial side flattening or smt. concave, subcylindrical, 4.5–5.5 (6) x 2–2.5 (3) µm, CB±
Distr.: Africa, Europe, Pacific. – Substr.: angio, cones, ferns, gymno, litter, timber, wood. – Refs.: [13:¹³³⁹, 29:³¹²]
Sistotrema heteronemum (J. Erikss.) Å. Strid 1975
- 50.2 Basal hyphae thinner, hyaline to yellowish, CB–..... 51
- 51.1 Spores longer than 8.5 µm.
Effused, adherent, pruinose, porulose, smooth, thin, whitish. Hyphae fibulate, 2.5–3 (3.5) µm. Basidia urniform, smt. pleural, 20–30 (40) x 6–7 (8) µm; (4) 5 st. Spores narrowly ellipsoid to cylindrical, 9–12 x 4–4.5 (5.5) µm.
Distr.: Africa, Europe. – Substr.: angio, ferns, gymno, horsetails. – Refs.: [23:⁵⁶]
Sistotrema pteriphilum K.H. Larss. & Hjortstam 1985
- 51.2 Spores less than 8.5 µm long. 52
- 52.1 Spores up to 4.5 µm long. 53
- 52.2 Spores longer than 4.5 µm. 55
- 53.1 Spores obovoid to drop-shaped, tapering toward the apiculus.
Effused, pruinose, subceraceous, whitish. Hyphae fibulate, 2–5.5 µm. Basidia urniform, 12.5–17 x 5–5.5 µm (base); 8 st. Spores 3–4 x 1.7–2.2 µm.
Distr.: France. – Substr.: leaves, *Pinus pinaster*. – Refs.: [3:²⁰⁸]
Sistotrema pinifoliae Boidin & Gilles 1994
- 53.2 Spores subcylindrical, obtuse at both ends. 54
- 54.1 Spores binucleate, 3.3–3.8 x 1.5–1.8 µm.
Effused, adherent, porulose, smooth, very thin, greyish. Hyphae fibulate, 1.5–3 µm diam. Basidia urniform, 7–12 x 3–4 µm; 6–8 st.
Distr.: N.America, Asia-Temperate, Asia-Tropical, Europe. – Substr.: angio, gymno, wood. – Refs.: [20:⁴⁰⁹]
Sistotrema binucleosporum Hallenb. 1984

- 54.2 Spores uninucleate, 3.5–4.5 x (1.8) **2–2.5** μm .
 Effused, adherent, porulose, smooth, thin, greyish white. Hyphae fibulate, subicular with thickening walls. Basidia urniform, 10–20 x 3.5–4.5 μm ; 6–8 st.
 Distr.: Africa, N.America, S.America, Asia-Temperate, Asia-Tropical, Europe. – Substr.: angio, gymno. – Refs.: [20^{:407}, 3^{:209}] 
Sistotrema porulosum Hallenb. 1984
- 55.1 Spores wider than 3 μm (at least in mean)..... 56
- 55.2 Spores up to 3 μm in diam. 58
- 56.1 Spores up to 6.5 (7) μm long; basidiome pellicular.
 effused, arachnoid to pellicular and separable, smooth, white to slightly greyish. Hyphae fibulate; subhymenial 3.5–4.5 (5) μm ; subicular 3.5–7 (8) μm , individual cells sometimes swollen. Basidia urniform, 18–25 x 4.5–5.5 μm , 6 st. Spores ellipsoid with flattening adaxial side, sometimes slightly pip-shaped, (5.4) 5.7–6.5 (7) x 3.3–4 (4.3) μm .
 Distr.: Netherlands. – Substr.: *Fagus sylvatica*, leaves. – Refs.: [43^{:287}]
Sistotrema epiphyllum Stalpers & al. 2014
- 56.2 Spores 6–8 μm long; basidiome adherent or pellicular. 57
- 57.1 Basidiome pellicular, separable; basal hyphae often forming strands; spores (6.2) 6.5–8.2 x (2.8) 3–4 (4.2) μm .
 Effused, smooth, thin, whitish, with hyphal strands. Hyphae fibulate, 3.3–6.5 μm , in subiculum with thickening wall, smt. ampullate at the septa, content often yellowish, brownish with SV. Basidia urniform, smt. peduncolate, 16–32 x 6–8 μm ; (4) 6–8 st.
 Distr.: N.America, S.America, Asia-Temperate. – Substr.: angio, gymno. – Refs.: [20^{:400}]. – 
Sistotrema athelioides Hallenb. 1984
- 57.2 Basidiome adherent; basal hyphae rarely forming strands; spores (5) 6–7 (8) x 2.7–3.3 μm .
 Effused, smooth, thin, whitish. Hyphae fibulate; subhymenial 3.5–7.5 μm ; subicular with thickening wall, often ampullate at the septa. Basidia urniform, 19–27 x 6–8.5 μm ; 6 st.
 Distr.: British Columbia. – Substr.: gymno, wood. – Refs.: [20^{:397}]. – 
Sistotrema adnatum Hallenb. 1984
- 58.1 Basidiome very thin, mostly discontinuous and hardly visible when dry. 59
- 58.2 Basidiome thicker, submembranaceous to pellicular, normally well developed.. 61
- 59.1 Spores wider than 2.5 μm .
 Effused, farinose, pruinose, smooth, very thin, whitish, light greyish. Hyphae fibulate, 3.5–6 μm , often smw. ampullate at the septa. Basidia urniform, rarely obpyriform, 6–8 μm wide; 6 st. Spores narrowly ellipsoid to subcylindrical, slightly tapering toward the apiculus, 5.5–7.5 x (2.5) 2.7–3.2 μm .
 Distr.: Estonia, Sichuan. – Substr.: *Populus tremula*. – Refs.: [32^{:230}]
Sistotrema estonicum Parmasto 1965
- 59.2 Spores up to 2.5 μm in diam. 60

- 60.1 Spores somewhat bottle-shaped in frontal view, sometimes slightly broader toward the base; apiculus distinct and relatively large.
Effused, porulose, discontinuous, very thin, whitish. Hyphae fibulate, 5–8 µm, subicular with thickening wall, smw. ampullate at the septa. Basidia urniform, 10–15 (20) x 6–7 µm (base); 6–8 st. Spores narrowly ellipsoid, cylindrical, 5.5–7.5 x 2.2–2.7 µm.
Distr.: Africa, Europe. – Substr.: *Calamus sp.*, *Juncus sp.*, *Pteridium sp.* – Refs.: [3:²⁰⁴]
Sistotrema lagenosporum Boidin & Gilles 1994
- 60.2 Spores ellipsoid in frontal view; apiculus small.
Effused, loosely adherent or separable, pulverulent, hypochnoid, reticulate, smooth, very thin, whitish, pale yellowish grey. Hyphae fibulate, 3.5–6.5 µm, smt. ampullate at the septa. Basidia urniform, 15–20 x 5.5–7 µm; (4) 6 (8) st. Spores narrowly ellipsoid to cylindrical, 5.5–7 x 1.8–2.5 µm.
Distr.: Iran, Kamchatka. – Substr.: angio, *Populus suaveolens*. – Refs.: [32:²³⁰, 18:⁷²]
Sistotrema camshadalicum Parmasto 1965
- 61.1 Basidiome smooth to granulose or somewhat grandinioid; bulbils normally common toward and at the margin; hyphal strands infrequent.
Effused, pellicular to submembranaceous, loosely adherent to separable, smooth to granulose or smw. grandinioid, cream to yellowish. Rhizomorphs infrequent. Hyphae fibulate, 2.5–5 µm, sometimes with ampullate septa. Basidia urniform, 15–25 x 5–7 µm; (4) 6 sterigmata. Spores ellipsoid, narrowly ellipsoid to subcylindrical, (4) 5–6.5 (7) x (2) 2.2–3 µm. Bulbils normally present at margin.
Distr.: Northern hemisphere. – Substr.: angio, gymno, wood. – Refs.: [20:⁴⁰³] 
Sistotrema coronilla (Höhn. & Litsch.) Donk 1935
- 61.2 Basidiome porulose to smooth; bulbils absent (but reported for *S. biggsiae* in culture.); hyphal strands absent. 62
- 62.1 Spores ellipsoid to narrowly ellipsoid; adaxial side mostly convex.
Effused, smooth, soft, whitish. Hyphae fibulate, subhymenial 3–4 µm, subicular 4–7 µm. Basidia urniform, 15–20 (30) x 5–7 µm; 6 st. Spores (4) 4.5–6 (7) x (2) 2.5–3 µm.
Distr.: Africa, Asia-Temperate, Europe. – Substr.: angio, basidio, ferns, gymno, leaves, litter, mosses, timber, bark, wood. – Refs.: [13:¹³⁴⁹]
Sistotrema octosporum (Höhn. & Litsch.) Hallenb. 1984
- 62.2 Spores subcylindrical; adaxial side flattening, sometimes slightly depressed.
Effused, membranaceous, smooth, whitish. Hyphae fibulate, 2.5–5.5 µm. Basidia urniform, 12–28 x 4–5.5 µm; 6–8 st. Spores subcylindrical, 5–6.5 x 2.3–3 µm.
Distr.: Africa, N.America, S.America. – Substr.: angio, fungi, gymno, wood. – Refs.: [20:⁴⁰¹]
Sistotrema biggsiae Hallenb. 1984

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