

Parasola Redhead, Vilgalys & Hopple

JAN VESTERHOLT

Coprinus Pers. s. lato p.p.

Frb very thin-fleshed, short lived and fragile, with plicate cap and black sp deposit. Cap almost cylindrical, acorn-shaped, ovoid or ellipsoid, later expanding to convex, bell-shaped or plane, becoming radially grooved, dry, reddish brown to orange brown, in one species with lilac tinges, later paler and more greyish. Gills free, in most species remote from stem, distant, mostly not deliquescent. Stem ± cylindrical, smooth, dry. Veil absent. Smell indistinct. Taste insignificant or unknown. Sp deposit black.

Sp ellipsoid or heart-shaped to angular or circular in face view and ellipsoid in side view, often distinctly broader in face view than in side view, and in such cases the spore size is given in three dimensions, in most species with eccentric germ pore, smooth, dark brown to black. Basidia mostly 4-spored. Cheilocystidia subglobose, ellipsoid, utriform, lageniform or cylindrical. Pleurocystidia present or absent, ellipsoid, utriform, lageniform or cylindrical. Pileocystidia generally absent, but one species with long thick-walled, brown sclerocystidia. Caulocystidia absent. Pileipellis a hymeniderm. Clamps present.

Saprotrophic. On soil, in grass, on wood chips, dung, etc. Spring to autumn.

10 species in the Nordic countries.

Lit.: Orton & Watling 1979, Redhead et al. 2001, Uljé in Noordeloos et al. 2005, Uljé & Bas 1988, Uljé & Bender 1997, Vesterholt et al. 2007.

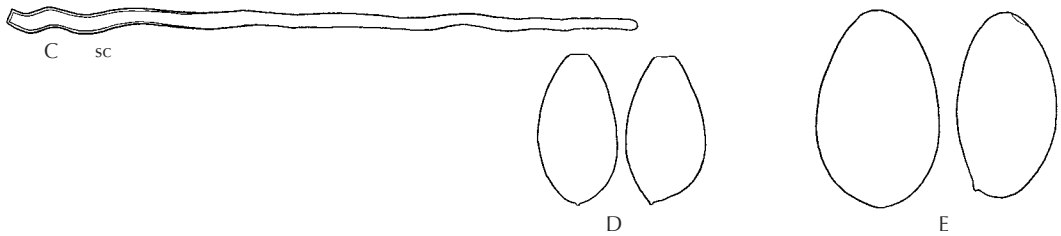


Fig. 585. Spores, cheilocystidia and sclerocystidium: C-D: *Parasola auricoma*, E: *P. megasperma*.

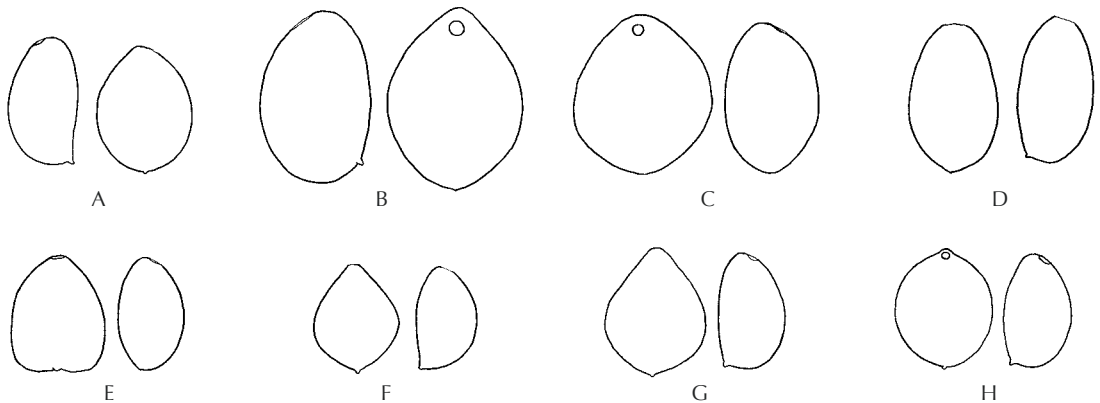









Fig. 587. Sclerocystidium and spores: A: *Parasola lilatincta*, B: *P. hercules*, C: *P. schroeteri*, D: *P. plicatilis*, E: *P. misera*, F: *P. kuehneri*, G: *P. leioccephala*, H: *P. galericuliformis*.

1. Cap with scattered, > 200 μm long, thick-walled, brown sclerocystidia (fig. 585C); sp with central germ pore. Cap 10-15 x 8-12 mm, acorn-shaped to ellipsoid, later expanding, becoming radially grooved, reddish brown to orange brown, later paler and more greyish towards margin; gills free, not or slightly deliquescent; stem 30-120 x 2-4 mm, cylindrical or slightly widened downwards, whitish to yellowish brown. Sp 10-14.5 x 6-8 μm , ellipsoid (fig. 585D). On soil and wood chips, in lawns, at roadsides, etc.; occasional in temp., rare in hemib.-bore.; DK (LC), FI (DD), IS (Au), NO (LC), SE (LC). – B&K 4:266, FAD 160C, Jordst 18(1), Lud 93.19, Svp 56:32, .
P. auricoma (Pat.) Redhead, Vilgalys & Hopple (*Coprinus auricomus* Pat., *C. hansenii* J.E. Lange, *C. hemerobius* Fr. s. auct.)
 - Cap glabrous, without sclerocystidia; sp with eccentric germ pore 2
2. Sp \pm ovoid to ellipsoid 3
 - Sp broadly heart-shaped, rounded angular or circular in face view 4
3. Sp on av \geq 14.3 μm long (fig. 585E). Cap 5-15 x 3-10 mm, ellipsoid to ovoid, later expanding, becoming radially grooved, orange brown to reddish brown; gills slightly remote from stem, not or slightly deliquescent; stem 30-100 x 1-2.5 mm, cylindrical, white to pale greyish brown. Sp 13-18 x 8.5-11.5 x 7.5-10 μm , \pm ellipsoid, with eccentric germ pore. On soil, grass, wood chips or dung; spring to summer; occasional in hemib.-southern bore., rare in temp.; DK (LC), FI (LC). – Lud 93.15.
P. megasperma (P.D. Orton) Redhead, Vilgalys & Hopple (*Coprinus m.* P.D. Orton)
 - Sp on av \leq 12.8 μm long see *P. plicatilis* 7
4. Cap with lilac tinges when young; elements of pileipellis with oily granules. Cap 5-30 x 3-16 mm, narrowly conical to cylindrical, later expanded, becoming radially grooved, with age pale greyish brown; gills free, not or slightly deliquescent; stem up to 100 x 2-3 mm, cylindrical with a widened base, white to greyish white, sometimes tinged lilac at base. Sp 9.5-13.5 x 9-11 x 5.5-8.5 μm , rounded 5-angular in face view, ellipsoid in side view (fig. 587A), with eccentric germ pore. On wood chips, at roadsides, etc.; spring to autumn; very rare in temp.; DK (LC). – Lud 93.17, Pers 14:374.
P. lilatincta (Bender & Uljé) Redhead, Vilgalys & Hopple (*Coprinus l.* Bender & Uljé)
 - Cap without lilac tinges; elements of pileipellis without oily granules 5
5. Sp on av > 11 μm long 6
 - Sp on av < 11 μm long 8
6. Expanded cap 8-14(-18) mm; sp on av \geq 11.8 μm broad in face view. Cap 4-7(-10) x 2-5(-7) mm, bell-shaped to hemispherical, later expanding, becoming radially grooved, orange brown to reddish brown; gills free, not deliquescent; stem 48-70 x 0.5-1.5 mm, cylindrical, white to pale greyish brown. Sp 12.5-17 x 11.5-15 x 8-11 μm , rounded 3-angular to weakly 5(-7)-angular in face view, ellipsoid in side view (fig. 587B), with eccentric germ pore. On naked soil and in lawns; rare in temp.-hemib.; DK (LC), NO (Østf: Fredrikstad). – Lud 93.14, Mic Due 536, Svp 56:33, .
P. hercules (Uljé & Bas) Redhead, Vilgalys & Hopple (*Coprinus h.* Uljé & Bas)
 - Expanded cap up to 30 mm; sp on av < 11.5 μm broad in face view 7
7. Sp on av > 10 μm broad; on soil or dung. Cap 7-15 x 4-8 mm, ellipsoid to ovoid, later expanding, becoming radially grooved, yellowish brown to buff or reddish brown; gills somewhat remote from stem, not deliquescent; stem 30-80 x 0.5-2 mm, cylindrical, white to yellowish or pale brown. Sp 10-15.5 x 9-13 x 8-9.5 μm , broadly heart-shaped in face view, ellipsoid in side view (fig. 587C), with eccentric germ pore. Spring-autumn; common in temp., rare in hemib.-southern bore.; DK (LC), FI (LC), NO (STr: Trondheim), SE (LC). – OPN 5A, Svp 56:37, ZM 54:48, .
P. schroeteri (P. Karst.) Redhead, Vilgalys & Hopple (*Coprinus s.* P. Karst., *C. nudiceps* P.D. Orton)

- Sp on av < 10 μm broad; in grass in open places, often in lawns. Cap 5-13 x 4-10 mm, ovoid to ellipsoid, later convex to expanded, becoming radially grooved, sordid yellowish brown to reddish brown, towards margin paler and more grey; gills remote from stem, not deliquescent; stem 30-120 x 1-2.5 mm, cylindrical, sordid whitish to yellowish brown. Sp 10-14.5 x 7-10.5 x 6.5-8 μm , \pm ovoid to ellipsoid (fig. 587D), with or without 5-6 rounded angles in face view, ellipsoid in side view, with eccentric germ pore. In grass in open places, often in lawns; early summer to autumn; very common in temp.-suba.; DK (LC), FI (LC), IS, NO (LC), SE (LC). – Lud 93.11, Phil 261d, R&H 428, Svp 44:39, 56:36, Ves 294, .
P. plicatilis (Curtis: Fr.) Redhead, Vilgalys & Hopple (*Coprinus p.* (Curtis: Fr.) Fr.)
- 8. On dung; gills reaching the stem. Cap 2-5 x 1-3 mm, ovoid to ellipsoid, later convex to expanded, becoming radially grooved, orange brown, later grey and \pm transparent in outer part; gills free, not or slightly deliquescent; stem 10-50 x 0.1-0.5 mm, cylindrical. Sp 7-10.5 x 6.5-10 x 5-6 μm , heart-shaped in face view, ellipsoid in side view (fig. 587E), with eccentric germ pore. Common in temp.-suba.; DK (LC), FI (LC), IS, NO (LC), SE (LC). – C&D 761, FAD 157B, Lud 93.18, M&J *Coprinus* 25, Svp 56:35, .
P. misera (P. Karst.) Redhead, Vilgalys & Hopple (*Coprinus m.* P. Karst.)
- On soil or wood chips; gills remote from the stem 9
- 9. Sp 6.5-11 x 5.5-8 x 5-6 μm (fig. 587F). Cap 5-16 x 4-11 mm, ovoid to ellipsoid, later expanded, becoming radially grooved, sordid reddish brown, towards margin paler and more grey; gills remote from stem, not deliquescent; stem 40-100 x 1-3 mm, cylindrical, sordid whitish to yellowish brown. Sp heart-shaped to rhomboid or 3-4-(5-)angled in face view, ellipsoid in side view, with eccentric germ pore. In shady places under trees, in grass lawns or on rotting plant remains; spring to autumn; occasional in temp.-hemib., rare in bore.; DK (LC), FI (DD), NO (Tel: Bamble, STR: Trondheim), SE (LC). – B&K 4:285, Lud 93.13, M&J *Coprinus* 18, RdM 48:69, Svp 56:34, .
P. kuehneri (Uljé & Bas) Redhead, Vilgalys & Hopple (*Coprinus k.* Uljé & Bas, *C. plicatilis* (Curtis: Fr.) Fr. var. *microsporus* Kühner)
- Sp on av > 8 μm broad 10
- 10. Sp \pm 5-angled to heart-shaped in face view (fig. 587G). Cap 5-15 x 4-13 mm, ovoid to ellipsoid, later convex to expanded, becoming radially grooved, yellowish buff to reddish brown, towards margin paler and more grey; gills remote from stem, not deliquescent; stem 40-120 x 1-2 (-3) mm, cylindrical, whitish to pale yellowish brown. Sp 8-12 x 7-10.5 x 5.5-7 μm , ellipsoid in side view, with eccentric germ pore. On soil or wood chips in shady places, rarely in grass; common in temp.-hemib., occasional in southern-middle bore.; DK (LC), FI (LC), NO (LC), SE (LC). – B&K 4:290, End 396, Ger 01:361, Lud 93.12, Svp 56:35, .
P. leiocephala (P.D. Orton) Redhead, Vilgalys & Hopple (*Coprinus l.* P.D. Orton)
- Sp circular without angles in face view (fig. 587H). Cap 5-15 x 3-10 mm, ovoid to ellipsoid, later convex to expanded, becoming radially grooved, yellow buff to reddish brown, towards margin paler and more grey; gills remote from stem, not or slightly deliquescent; stem 25-70 x 0.5-3 mm, cylindrical, sordid whitish to yellowish brown. Sp 10-12 x 8.5-10.5 x 6-7 μm , ellipsoid in side view. On soil in shady places, on rotting twigs and sawdust; occasional in hemib.-middle bore.; rare in temp.; DK (DD), FI (LC), SE (LC). – Lud 93.16.
P. galericuliformis (Watling) Redhead, Vilgalys & Hopple (*Coprinus g.* Watling)