

ON LEAVES

After Various Authors

Rev. November 6, 1997; Needs to be made more user-friendly.

1. Asci or ascigerous tissue scattered and embedded in thallus, or ascocarps resembling rounded or elongate apothecia but ascolocular, with branched and anastomosing paraphysoids. 2
1. Ascocarps true apothecia. 4
 2. Ascigerous tissue or ascocarps lacking excipuloid tissue around them. 3
 2. Ascocarps with non-radiating excipuloid tissue, elongate to irregularly rounded or composite; excipuloid tissue black. Spores transversely septate. Opegrapha
3. Ascigerous parts of thallus whitish, scattered in thallus with loose hyphal tissue in between asci. Spores muriform. Cryptothecia
3. Ascocarps colored or black, \pm superficial; asci and paraphyses coherent in a gelatinous matrix. Spores transversely septate. Spores straight, often macrocephalic. Arthonia
 4. Margin of apothecia formed by ruptured tissue which initially covers apothecium. Spores transversely septate to submuriform. 5
 4. Margin of apothecia not formed as above. 6
5. Epithelial alga present; paraphyses simple; apotheci round. Exciple well developed. Asterothyrium
5. Epithelial alga absent; paraphyses branched and anastomosing; apothecia round to elongate. Ascus thin-walled, with no tholus. Ascomata not oriented. Aulaxina
 6. Apothecia immersed in thallus, later erumpent and sometimes prominent. 7
 6. Apothecia adnate to sessile, constricted at base, rarely substipitate. Exciple distinct, well developed. 8
7. Hyphophores present; thallus with 1-cell layer of cortex. Exciple poorly developed. Asci 1-spored. Hyphophores as dark, roundish spots on thallus. Thallus later becoming squamulose. Apothecial margin raised. Gyalectidium
7. Hyphophores absent; thallus with corticiform layer or ecorticate. Paraphyses branched and anastomosing. Spores transversely septate to submuriform. Calenia
 8. Exciple spreading laterally, formed by intricate or radiating hyphae. 9
 8. Exciple not spreading laterally, formed by para- or prosoplectenchymatous tissue. 10
9. Paraphyses branched and anastomosing; spores transversely septate or muriform. Echinoplaca
9. Paraphyses simple or slightly branched, not anastomosing; spores transversely 1-3-septate. Exciple white and cobwebby or cotton-like. Byssoloma
 10. Paraphyses simple or slightly branched, not anastomosing. 11
 10. Paraphyses branched and anastomosing. 13
11. Spores multicelled-muriform. Apothecial disc brown-black. Thallus with or without campylidia. Hypothecium K-. Calopadia

- 11. Spores transversely septate.** 12
- 12. Spores 1-septate.** Apothecial disc yellow or orange. Ascus without any apical structure. Dimerella
- 12. Spores 2- or more-septate.** Exciple lacking crystals. Thallus of goniocysts. Ascus apex without I+ blue tube structure; spores > 20 um long. Bacidina aphiaca (placed by some authors in the separate genus Woessia)
- 13. Thallus with white or brown-black hairs.** With hyphophores on hair-like stalks. Spores transversely septate to muriform. Tricharia
- 13. Thallus lacking hairs.** Apothecial margin without hairs. 14
- 14. Epithecial alga present.** Asci 1-spored; spores multicelled muriform. Thallus with campylidia, usually felty. Disc pale to dark brown. Sporopodium
- 14. Epithecial alga absent.** 15
- 15. Exciple with crystals.** Spores 3-septate. Bacidia
- 15. Exciple without crystals.** Spores transversely septate to sub-muriform or muriform. 16
- 16. Hypothecium purplish brown, K+ purplish-red-brown.** Apothecial disc black. Thallus with or without campylidia. Paraphyses branched. Thallus not felty. Tapellaria
- 16. Hypothecium not purplish brown, K-.** Apothecial disc yellow-brown to red-brown; exciple K-. Thallus farinose to granular, without campylidia. Ascus apex with I+ blue tube structure; spores < 20 um. Paraphyses free, tips not dark-capped. Fellhanera

ADD:

Ascospores mostly with 3 or more septa, with one of the median cells distinctly larger than the other three. Campylidia absent or else not white and two-ciliate. Exciple not white and cobwebby or cotton-like. Mazosia

Ascoma a perithecium or resembling one. Thallus without white, tapering hairs or hyphophores on hair-like stalks. Without campylidia. Mature ascospores muriform. Exciple not white and cobwebby or cotton-like. Aspidothelium

Ascoma a perithecium, not ornamented. Ascospores 3- or more-septate, with \pm equal-sized cells. Campylidia absent or else not white and two-ciliate. Exciple not white and cobwebby or cotton-like. Porina

Ascoma a perithecium, ornamented with a crown of spreading bristles. Trichothelium

ADD? (may not be any foliicolous species reported from N. America):

Arthothelium

Lecanora

Scoliciosporum

