

**Mycoglaena** Hhnel

after Harris, 1973, and others

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Thallus immersed, inconspicuous; photobiont evidently absent. Ascomata perithecioid, 0.20.4 mm diam., circular or broadly ellipsoid in outline, flattened, greenish black but often with a thin whitish border. Involucrellum present, bright green, K, N+ red, composed of dark hyphae mixed with bark cells. Exciple not distinct. Hamathecium of paraphyses to 1 um thick, simple or sparingly branched and anastomosed; gel I. Asci relatively thick tipped, lacking a chitinoid ring, ± cylindrical, with a ± truncate apex, K/I; without an ocular chamber, 8spored. Spores transversely septate or muriform, ovoidfusiform or clavate, colorless; perispore not apparent. Pycnidia resembling ascomata but much smaller; conidia bacilliform. On smooth bark of trees and shrubs. Temperate.

**1. Spores 2celled (very rarely 4celled), 1723 x 68 um.** Thallus indicated by a lighter area on the bark, without algae. Asocarps flattened, orbicular, ca. 0.3 mm diam., occasionally depressed in the center. Paraphyses little branched, rather thick, ca. 2 um, with scattered swollen cells, almost moniliform in places. Asci cylindrical or narrowly ovate, 7090 x 1215 um. Spores narrowly ovate, the upper cell broader than the lower; perispore not obvious. Texas. ....M. wetmorei

**1. Spores 4celled to submuriform.** .... 2

**2. Spores with 46(7) cells, 25 of the cells longitudinally septate,** 1826 x (7)810 um, ovate to elliptical, submuriform, 8 per ascus, constricted at the septa, especially the median one. Thallus nonlichenized, indicated by a pale gray area on the bark. Asocarps scattered, bluish or greenishblack, circular to elliptical in outline, flattened, often sunken in the center, 0.40.6 mm diam.; wall green, greenish brown or greenish black, N+ reddish, lacking below, 1025 um thick. Hymenium I. Interthecial hyphae not abundant, ca. 12 um thick, septate, branched and anastomosed. Asci cylindrical, usually with truncate tip, not thickened at tip, variable in length depending on distance from the ostiole, 75130 x 1520 um. On smooth bark of Acer rubrum, Myrica, Prunus, and Quercus. Illinois, Iowa, Massachusetts, Connecticut, Missouri, Maine, New York. ....M. meridionalis (Zahlbr.) Szat. in

Degen

**2. Spores mostly with only 46 cells, rarely a single cell longitudinally septate. .... 3**

**3. Spores pointed at one or both ends, 4celled (one of the median cells enlarged, constricted at septa), 1823 x 68 um,** narrowly ovate. Asci 5075 x 1015 um. Pycnidia 4060 um; pycnospores 4.55(5.7) um. Thallus nonlichenized, indicated by a paler grayish or brownish area on the bark. Ascocarps scattered, greenish black, elliptic, flattened, 0.20.5 x 0.10.3 mm, ca. 0.1 mm high; wall green to greenish brown or greenish black, N+ reddish, containing bark cells, 2535 um thick. Hymenium I. Interthecial hyphae ca. 12 um thick, septate, branched and anastomosed. Asci cylindrical, slightly thickened at tip, inner surface occasionally indistinctly indented. Spores 8, subbiseriate, hyaline, fusiform, lacking a gelatinous sheath. On Myrica, rarely on Abies, Alnus, Betula, or Sorbus. Michigan. .... M. myricae (Nyl.) R. C. Harris

**3. Spores with more rounded ends, 46celled (the cells all approximately equal), 1830 x (5)68(9) um,** narrowly elliptical to narrowly ovate or fusiform; occasionally with one cell longitudinally septate. Thallus nonlichenized, indicated by a lighter area on the bark. Asocarps scattered, greenish black, circular to elliptical, flattened, often sunken in the center, 0.6 mm diam. or ca. 0.6 mm long and 0.10.2 mm less in width, 0.120.15 mm high; wall green, N+ reddish, lacking below, 2025 um thick. Hymenium I. Interthecial hyphae often sparse, ca. 12 um thick, filamentous, septate, branched and anastomosed. Asci cylindric with truncate tip, thick walled, not much thickened at tip, inner surface not indented, length variable depending on distance from ostiole, 70125 x 1218 um. Spores 8, subbiseriate, colorless, without a gelatinous sheath. Pycnidia ca. 0.1 mm diam., greenish; microconidia short bacilliiform, 45 x 1 um. . On Quercus. Illinois, Minnesota, Iowa, Missouri. .... M. quercicola R. C. Harris

## Literature

Harris, R. C. 1973. Corticolous pyrenolichens of the Great Lakes region. Michigan Botanist 12: 368.

Coppins, B. 1992. Mycoglaena. In: Purvis, et al., Lichen Flora of Great Britain and Ireland.