

CULTURAL CHARACTERISTICS OF SOME
ILLINOIS RESUPINATE BASIDIOMYCETES

R. MICHAEL MILLER
Illinois State University, Normal

ABSTRACT.—The cultural characteristics of three resupinate Basidiomycetes are reported for the first time.

In recent years taxonomists of wood-rotting Basidiomycetes have been using cultural characteristics along with the macroscopic and microscopic characters as an aid to gain a further understanding of this diverse group of fungi.

Presented here for the first time are the cultural characteristics along with the key codes (Nobles, 1965) of three resupinate Basidiomycetes. The polypore isolate of *Calocera cornea* (Fr.) Loudon was obtained from Dr. A. E. Liberta who collected the original specimen in Williamson Co., Ill. The specimens of *Sebacina dubia* (Bourd. & Galz.) Bourd. and *Coniophora olivacea* (Fr. ex Pers.) Karst. from which polypore isolates were made were collected by the author in Funks Grove, McLean Co., Ill. All specimen identifications were verified by Dr. A. E. Liberta.

The cultural methods and descriptive criteria used in this investigation are those of Nobles (1965). All cultures are deposited in the ISU culture collection.

Calocera cornea (Fr.) Loudon

Mat cream-white, turning orange in light, smooth in appearance, gelatinous in texture; hyphae simple-septate, thin-walled 6-8 X 3-4 u diam.; reacting negatively to both gallic acid and tannic acid; odor sweet and growth extremely slow.

Key Code: 1.6.7.33.36.(37).38.47.50.54.55.

Polypore isolate. Culture No ISU 70-46. *Coniophora olivacea* (Fr. ex Pers.) Karst. Mat cream-like in color with margins fluffy and older areas appearing appressed in a reticulate fashion; hyphae with multiple clamp connections, thin-walled, with adherent brown resinous masses sometimes present; giving a negative extra-cellular oxidase reaction to gallic acid and a weak reaction on tannic acid.

Key Code: 1.5.(7).(21).35.36.(37).38.(39).43.(54).55.

Polypore isolate. Culture No ISU-57. *Sebacina dubia* (Bourd. & Galz.) Bourd. Mat white, felty at first but becoming appressed with age; thin-walled hyphae with simple-septa found throughout; surface hyphae hyaline, 1.5-2 u diam.; tests for extra-cellular oxidase showing a strong positive reaction to both gallic acid and tannic acid.

Key Code: 2.6.7.32.38.46.47.54.55.
Polypore isolate. Culture No ISU-54 and RMM 71-14.

LITERATURE CITED

NOBLES, M. K. 1965. Identification of cultures of wood-inhabiting hymenomycetes. Can. Jour. Bot. 43:1097-1139.

Manuscript received August 21, 1971.