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## Laccaria Notebook 1

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Singer, R. Notes sur le genre *Laccaria*. Bull. Trimestr. Soc. Mycol. de France 83:104-123. 1967.

Discussion is followed by a Key to varieties of *L. laccata*.

Key

- A. Spores 1-1.5  $\mu$  longer than broad, 8.5-9.5 (10) x 6.7-8(9) u.
- B. Stipe generally more than twice the cap diameter; spores 8.5-9.5 (10) x 6.7-8(9) u; carpophores average size to large.
- C. Average size; cap plane on the center; stipe fibrillose at the apex . . . . . var. laccata
- C. Large (cap more than 30 mm); stipe 100-150 x 8-12 mm). On conifer needles. This is a large form of var. laccata; insufficiently known to the author: L. laccaria var. proxima sensu Möller, Fungi of the Faeroes 1:271, fig. 129. 1945, non Boudier.
- B. Stipe relatively short, cap small, less than 25 mm; spores 8.8(10) x 6.7-8(9) u, ornamentation 0.7-1.1 u. On subherbaceous species of Salix . . . . . var. pusilla
- A. Spores up to 1 u longer than broad in most instances, subglobose, or spores smaller.
  - D. Carpophores smaller than average; spores 7-9 x 7-9 u; non-carbonicolous.
  - E. Stipe usually rather short; spores up to 1 u longer than broad; variety in arctic regions, or alpine, growing with subherbaceous willows (voy. "B", taller).
  - E. Stipe usually very long; spores almost globose . . . . . var. chilensis
  - D. Carpophores larger and/or spores broader, or on vegetable-carbon.
    - F. Spores small: 7.7-8.2 x 6.5-9.2 u, spines about 0.7 u. On carbon . . . . . var. carbonicola
    - F. Spores average.
    - G. Cap often umbonate, fibrillose-tomentose, or scaly; spores 8.2-10.2 (11) x 8-9(10) u; spines 0.7-1 u.
    - H. On acid soil, among mosses, sphagnicolous, cap often umbonate, fibrillose-tomentose, on drying  $\pm$  grayish and tomentose in the center . . . . . var. anglica

- H. On volcanic ash; cap scaly . var. vulcanica
- G. Cap always umbonate, asperulate-fibrillose or subglabrous; spores small or large; always on volcanic ash.
  - I. Carpophores large (cap more than 30 mm diam.); spores 9.3-10.3 x (8.8)9-10 u; spines 0.7-1.0-1.2 u. Under conifers, growing among mosses, sometimes in sphagnum-bog . . . . . var. affinis
  - I. Not uniting the above characters . . . . . (voy. "E")

## LACCARIA

### Key to Southeastern Species

- |    |                                     |   |
|----|-------------------------------------|---|
| 1. | Pileus 5-10 cm. broad.....          | 2   |
| 1. | Pileus 2-5 cm. broad.....           | 3   |
| 2. | Lamellae purplish.....              | 1. <u>ochropurpurea</u> (Berk.) Pk.             |
| 2. | Lamellae flesh-colored.....         | 2. <u>laccata</u> var. <u>proxima</u> Boud.     |
| 3. | Lamellae flesh-colored.....         | 4   |
| 3. | Lamellae pallid or deep violet..... | 6   |
| 4. | Margin of pileus even.....          | 3. <u>laccata</u> (Fr.) Berk. & Br.             |
| 4. | Margin of pileus striatulate.....   | 5   |
| 5. | Spores 10-14 (16) u diameter.....   | 4. <u>tortilis</u> Pat.                         |
| 5. | Spores 8-10 u diameter.....         | 5. <u>laccata</u> var. <u>striatula</u> Pk.     |
| 6. | Lamellae pallid.....                | 76. <u>laccata</u> var. <u>pallidifolia</u> Pk. |
| 6. | Lamellae violaceous.....            | 7. <u>laccata</u> var. <u>amethystina</u> Bolt. |

Revise, + add L. trusillata (see 72 9: 407)

LACCARIA LACCATA (Fr.) Berk. & Br.

Ann. & Mag. Nat. Hist. V, 12:370. 1883

Agaricus laccatus Fr., Syst. Myc. 1:106. 1821

Clitocybe laccata Quel., Champ. Jura Vosges, p. 91. 1872

Illustrations:

Plate

Smith, Mushrooms, Reel 18, No. 123. 1949

Pileus 2-6 cm. broad, convex-hemispheric, expanding convex, more or less depressed, hygrophanous, disk "Mikado brown," marginal portion "cinnamon" (moist), "cinnamon buff" to "clay color" (dry), densely pale scurfy-squamulose, margin even or wavy-cremulate to sub-plicate. Flesh thin, pliant, pallid (dry), dark (wet); odor mild, taste fungoid.

Lamellae emarginate, <sup>at in one form decurrent,</sup> rather close to subdistant, broad, "pinkish buff" to "vinaceous fawn," pruinose, edges even. Stipe 3-9 cm. x 4-10 mm., equal, rimose-striate, with scattered fibrils, stuffed, <sup>"Mikado brown"</sup> ~~brownish-dingy~~.

Spores globose to subglobose, 7-9 x 7-8  $\mu$ , rarely 11 x 8  $\mu$ , echinulate, white in mass, non-amyloid. Pleurocystidia and cheilocystidia not observed. Rea (quoting Ricken) reports cheilocystidia as clavate-vermiform, 50-60 x 9-12  $\mu$ .

Habitat and Distribution. - On soil, in conifer and frondose woods, or on open terrain, Tennessee, <sup>Kentucky,</sup> North Carolina, <sup>Georgia,</sup> and Florida, May-January.

Observations. - There is considerable variation in size, color, and markings of the pileus, in the color of the lamellae, and in the size of the stipe. Accordingly, varieties have been found, as follows:

Var. proxima Boud. (see Lange). Pileus up to 8 cm. broad, fulvous, even; lamellae flesh-color; stipe up to 10 cm. x 12 mm.

Var. pallidofolia Pk. Lamellae pallid, whitish.

Var. striatula Pk. Pileus thin, striate to disk.

Var. amethystina Bolt. Pileus dark; lamellae adnate-decurrent, deep-violet in color. We have not collected this variety. Coker and Beardslee (Elisha Mitchell Jour. 38:101-102. 1922) report it from North Carolina as amethystea (Bull.) Murr.

No. 23461 was growing in a fairy ring, 5ft. diameter.

23439

*Laccaria laccata* (Fr.) Berk. & Br.  
in pine woods, near Park Office  
Coll.: A. J. Sharp, October 11, 1959

Photo

Pileus 1.5-5 cm. broad, hygrophanous, "pale ochraceous buff" when dry, "vinaceous cinnamon," "orange cinnamon" to "cinnamon" when wet, convex, disk depressed, subumbilicate, finally upturned and wavy, appressed-fibrillose to canescent, margin even. becoming crenate. Flesh thin, pliant, "vinaceous-cinnamon"; odor and taste fungoid. Lamellae adnate, decurrent, to adnexed, whitish, finally "light vinaceous cinnamon," subdistant, broad, narrowed both ways, many short. Stipe 3-5 cm. x 4-10 mm., dingy brown, subequal to enlarged above, hollow-stuffed, tough, base white-mycelioid.

Spores 6-9  $\mu$  diameter, globose to subglobose, echinate, yellowish in Melzer's reagent, white in mass.

24558

*Laccaria laccata*

Photo

under pine, on lawn, Herndon's  
Nov. 8, 1961

Pileus 2-3.5 cm., convex, depressed-umbilicate, densely fibrillose-scaly, hygrophanous, "cinnamon" when dry, "Mikado brown" when wet, disk often darker, margin even sulcate-ridged. Context pallid-flesh tinted, thin, pliant; odor mild, taste somewhat acidulous.

Lamellae adnate, or with a subdecurrent tooth, at times seceding, "light vinaceous cinnamon", subdistant, broad, few forking, alternately long and short.

Stipe 4-6 cm. x 4-8 mm., often more or less compressed, dingy cinnamon, pruinose to fibrillose, often longitudinally fibrillose-rimose, equal, solid.



39026

LACCARIA LACCATA

Clingmans Dome, leg. David Jenkins, Sept. 13, 1973.

Pileus pale cinnamon brown (not matched). Gills pinkish. Stipe reddish brown with a bulbous base ( the bulb clavate ).

LACCARIA LACCATA var. NO. 24603

Photo

Pileus 2-6 cm., minutely scaly, "cinnamon rufous," margin strongly crimped-plicate. Context rather thick on disk, concolorous. Lamellae flesh pink, adnexed, coarsely serrate, close, broad. Stipe 5-8 cm. x 4-8 mm., brown, equal or enlarged above.

24604

*Laccaria laccata*

Photo

in pine woods, Walland, Dec. 19-1961

Pileus 1.8-2.8 cm., densely floccose, "tawny", faintly striate. Gills pale flesh, short-decurrent, close, medium broad. Stipe brown, equal.

LACCARIA OCHROPURPUREA (Berk.) Pk.

New York State Mus. Ann. Rept. 50:129. 1897

Agaricus ochropurpureus Berk. Hook. London Jour. 4:299. 1845

Illustration:

Plate

Coker & Beardslee, Elisha Mitch. Sci. Soc. Jour. 38,

pl. 7. 1922

Fileus 5-8 cm. broad, hemispheric-convex, expanding-convex, glabrous to scaly, hygrophanous, "ecru-drab" to "pallid brownish drab" when dry, "brownish drab" when wet, margin upturned in age, even. Flesh thick, compact, pallid; odor mild (?), taste disagreeable. Lamellae adnate, sinuate or slightly decurrent, broad, distant or subdistant, "vinaceous purple." Stipe 4-15 cm. x 8-15 mm., cylindrical to subequal, rigid, hard, concolor or paler, often twisted, and base sometimes curved, solid.

Spores globose, 7-9  $\mu$ , echinulate, in mass: white, tinged lilac.

Habitat and Distribution. - On soil, in mixed woods, Tennessee, North Carolina, <sup>Alabama,</sup> and Florida, July-October.

29967

LACCARIA OCHROPURPUREA (BERK.) PK.

PHOTO

Soil, deciduous woods, Witherspoons, Timberlake Road, Sept. 17, 1967

Pileus 3-9(15) cm broad, hygrophanous, near "Tilleul buff" when dry, "wood brown" when wet, convex, margin becoming upturned, surface matted then cracked. Context pallid, firm; odor slight, taste slightly unpleasant.

Lamellae adnexed, "dark heliotrope gray", broad, close, many lamellulae of about 5 ranks.

Stipe 5-18 cm long, 8-18(22) mm thick, pallid or concolorous, slightly fibrillose, solid, equal, base often curved. Spores in deposit - white. Forming a fairy-ring of some 60 basidiocarps, about 20 feet in diameter.

24883

LACCARIA

Pileus 2-3 cm., convex, more or less expanding hygrophanous, "wood brown" when wet, "pinkish buff" when dry, appearing fibrillose, even (dry), faintly striate (wet).

Lamellae adnate, "orange cinnamon", close to subdistant, rather broad, none forked, few short.

Stipe 4-7 cm. x 2-3 mm., fibrillose-rimose, dark brownish, equal, hollow.

25580

LACCARIA LACCATA

on sandy soil, deciduous woods, Horse Cove,  
June 18-'63.

Pileus sayal brown (moist), glabrous, margin wavy-crisped,  
margin even.

Lamellae adnate-decurrent, at first "pinkish buff", finally  
"vinaceous cinnamon", narrow or medium-narrow, nearly subdistant,  
many short, short ones of about five ranks.

Stipe 3-8 cm. x 2-8 mm., brownish, striate, often  
fibrillose-appressed and rimose, equal, spongy.

30175

LACCARIA LACCATA

On wet soil, woods, Cades Cove, July 11, 1968.

Pileus hygrophanous, striate, minutely fibrillose. Lamellae broad, distant.

Spores 7-9  $\mu$  diam.



39008

LACCARIA

On soil, woods, Gades Cove, Aug.15, 1973

Pileus 1-2.5 cm. broad, moist, "wood brown" then "avellaneous", minutely white-silky becoming squamulose, even. Context pallid avellaneous; odor mild, taste slightly bitter.

Lamellae aduate, whitish, finally "pale vinaceous fawn", nearly subdistant, lamellulae abundant, of 4-5 ranks, broad behind, narrowed in front.

Stipe 2-3.5 cm. long, 2-3.5 mm. thick, concolorous or paler to pallid, striate, scattered-fibrillose, tabular, dry.

Spores 6-7.5 $\mu$ , globose, echinulate-spiny.



29967 - *Faccaria ochropurpurea*



10774 - *Clitocybe ochropurpurea* Berk.



19283 - *Clitocybe ochropurpurea* Berk.

70510 - *Clitocybe ochropurpurea* Berk.



24967 - *Laccaria laccata* (Fr.) B. + B.

558



24558 - *Laccaria laccata*



24603 - *Laccaria laccata*





24604 - *Laccaria laccata*



23439 - *Laccaria laccata* (Fr.) Berk. & Br.



20772 - *Clitocybe laccata* Fr.



20772 - *Clitocybe laccata* Fr.



18868 - *Clitocybe laccata* Fr.



12968 - *Clitocybe laccata* Fr.



18967 - *Clitocybe laccata* var. *striatula* PK.

20772 - *Clitocybe laccata* Fr.