



University of Tennessee, Knoxville

TRACE: Tennessee Research and Creative Exchange

L. R. Hesler's Mushroom Notebooks

University of Tennessee Herbarium

November 2013

Crepidotus Notebook 7

L. R. Hesler

Follow this and additional works at: https://trace.tennessee.edu/utk_hesler

Recommended Citation

Hesler, L. R., "Crepidotus Notebook 7" (2013). *L. R. Hesler's Mushroom Notebooks*.
https://trace.tennessee.edu/utk_hesler/42

This Crepidotus is brought to you for free and open access by the University of Tennessee Herbarium at TRACE: Tennessee Research and Creative Exchange. It has been accepted for inclusion in L. R. Hesler's Mushroom Notebooks by an authorized administrator of TRACE: Tennessee Research and Creative Exchange. For more information, please contact trace@utk.edu.

circinatus sp. nov.
CREPIDOTUS Sm-16572

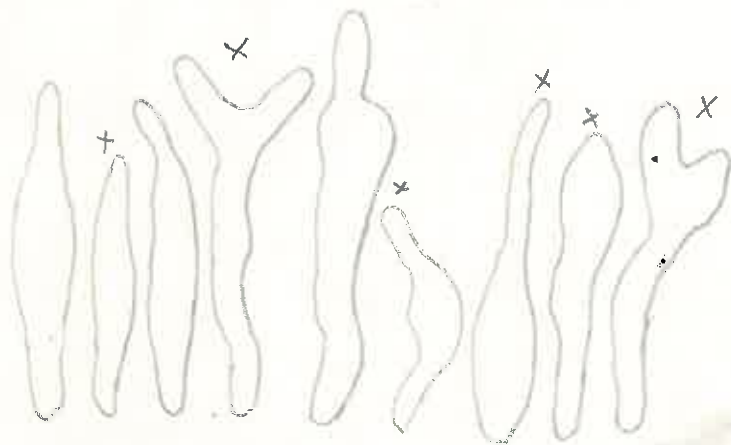
On old sticks, Baker Lake, Wash., Sept. 2, 1941.

5.15 mm broad, yellowish buff, (dried; probably buff fresh).
Pileus villose, ~~reddish~~ buff ~~when~~

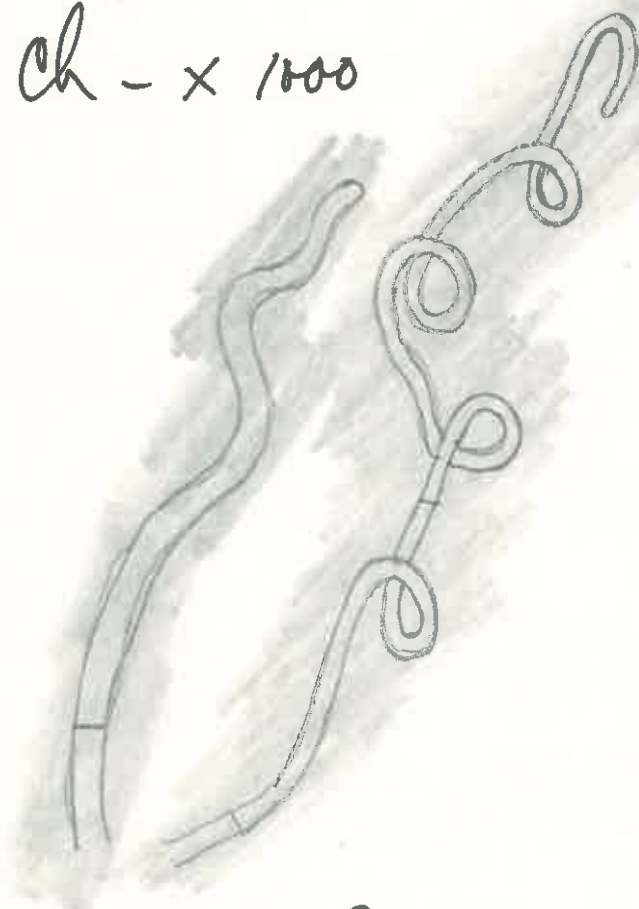
Lamellae medium broad, moderately close.

Spores 6-8 x 4.5-^{5.5} ~~6~~ μ , ellipsoid, inequilateral, punctate.
Basidia 27-34 x 6-7 μ , 4-spored. Pleurocystidia none; cheil-
cystidia 32-56 x 5-11 μ , fusoid, ventricose, clavate, bottle-
shaped, at times the apex forked or branched. Gill trama
interwoven, hyphae 5-9 μ broad. Pileus trama interwoven.
Cuticle of repent hyphae, bearing a turf of septate hyphae,
5-9 μ broad, some of the cells at random with a pigment which
is brownish or golden yellow in 2% KOH, these hyphae non-incrusted,
some of the hyphae crooked and some coiled. Clamp connections
present.

Crepidotus circinatus sp. nov.
Sm - 16572



Ch - x 1000



Epicuticular hyphae - x 1000

helicus sp. nov.
CREPIDOTUS Sm-22054

Type

On hardwood sticks, Wolf's Bog, Cheboygan Co.,
Mich., leg. A.H.S., Aug. 7, 1946.

Pileus 3-8 mm. broad, convex with an ~~incurved~~ *incurved* margin,
becoming fan-shaped, or, if on the lower side of the substratum,
reniform, fibrillose, yellowish, drying dull pinkish buff.

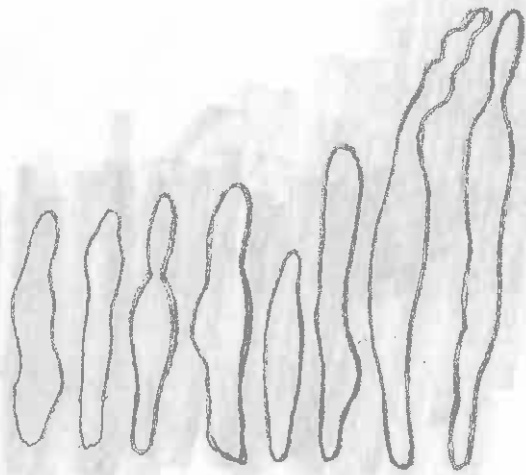
Lamellae adnate or radiating, cinnamon buff as dried,
broad, close to subdistant, edges crenulate.

Stipe lacking, or present as a pseudostipe.

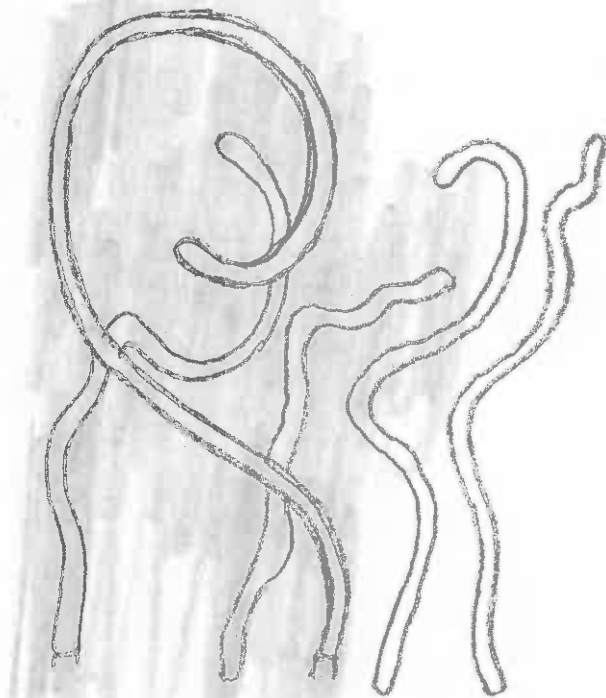
~~7.5-10 x 4.5-5.5 μ~~
Spores ~~7.5-10 x 4.5-5.5 μ~~, ovate or ellipsoid, inequilateral,
punctate, near cinnamon buff in 2% KOH. Basidia 22-27 x 5-6 μ,
4-spored. Pleurocystidia none; cheilocystidia 31-63 x 4-9 μ,
cylindric, ventricose, at times clavate and with or without
a long neck. Gill trama subparallel, hyphae 4-6 μ broad.
Pileus trama interwoven. Cuticle a dense, tangled trichodermium,
the terminal portion of the hyphae crooked or more or less coiled,
the hyphae 3-6 μ broad. Clamp connections present.

Observations. - The small yellowish pileus, the thin-
walled, ornamented spores, and the coiled trichodermial hyphal
tips are distinctive. (Suggested name: helicus.)

Opephodotus Sm - 72054
helium



Ch - $\times 1000$



Epicuticular hyphae - $\times 1000$
(colorless, non-incurved)

rubromollis (?)

CREPIDOTUS Bigelow-200

(ex. Herb. Mich.)

Univ. Mich. Biol. Sta., leg. H. E. Bigelow, July 22, 1956.

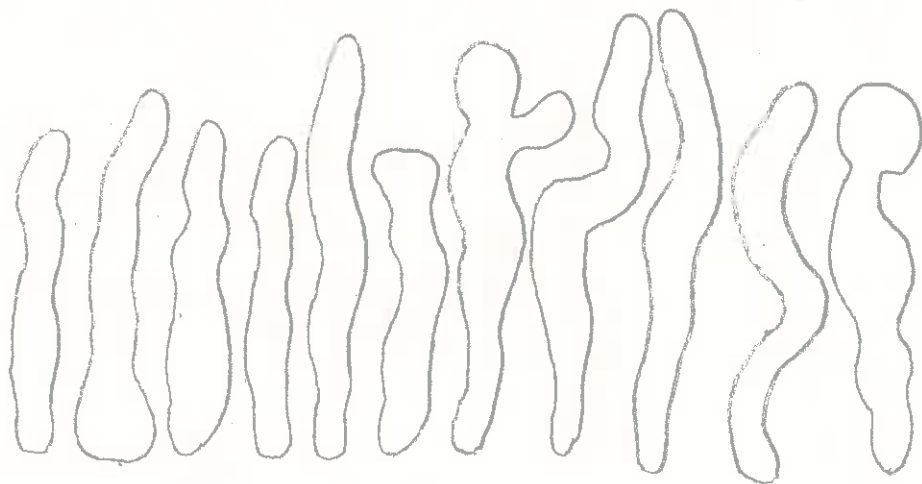
(No notes with collections)

white or at first whitish at first usually drying buff.
white at first

Lamellae narrow to medium narrow, subdistant.

Spores ⁽⁷⁾ ~~7.5-9 x 4.5-5.5~~ *7.5-9 x 4.5-5.5*, ellipsoid, inequilateral in profile, obscurely punctate, yellowish brown, wall medium thick. Basidia 23-28 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 40-62 x 5-10 (base) x 5-10 μ (apex), clavate and at times capitate, cylindric and often crooked, at times cylindric, ~~more rarely branched or forked~~, more rarely branched or forked. Gill trama subparallel to slightly interwoven, hyphae 4-7 μ broad. Pileus trama interwoven. Cuticle of repent hyphae bearing scattered to gregarious (then more or less a turf), colorless, non-incrusted hyphae, 2-5 μ broad. Clamp connections present.

Cepidotus Bagelow - 200
(ex-herb. Mich)



Ch - x 1000

CREPIDOTUS Bas-527

~~YANNA SPADDA~~

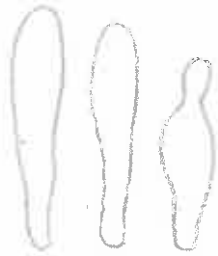
Coll. C. Bas, Michigan, 1963.

Pileus 6-12 mm broad, white, base white-tomentose.

Lamellae close, medium broad.

Spores 7-9 (11) x 4-5 μ , ellipsoid, inequilateral in profile, punctate. Basidia 25-30 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 24-32 x 5-7 μ , clavate to ventricose. Gill trama subparallel, hyphae 4-8 μ broad. Pileus trama more or less loosely interwoven. Cuticle of several layers of repent hyphae, bearing scattered, cylindric pilocystidia, 18-30 x 2-2.5 μ , and a turf of colorless hyphae, 2-5 μ broad, toward the base. Clamp connections present (scarce).

Oreodotus Bas-527



Ch - x 1000

hardwood

submicrosporus
var. heterofolius
CREPIDOTUS Thiers-2950

On log, in mixed forest, near Mackinaw City, leg. H.D. Thiers,
^ July 5, 1956.

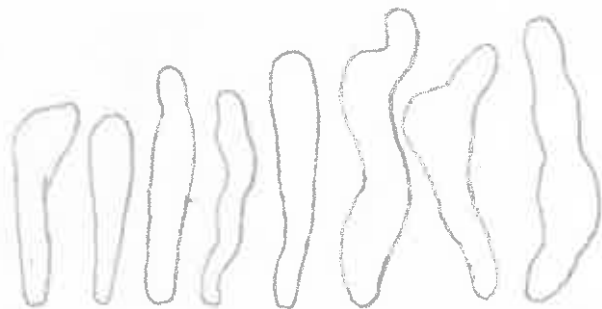
Pileus white, tomentose. Context thin.

Lamellae narrow to medium ~~narrow~~ ^{broad}, close.

Spores ~~8-10~~ 8-10 x 4-5 μ , ellipsoid, ~~shaped~~ ^{to funiform-ellipsoid,} ~~or subcircular,~~
~~slightly wrinkled.~~ [^] Basidia 22-26 x 6-7 μ ,
inequilateral in profile, ~~punctate~~ [^] 4-spored. Pleurocystidia none; cheilocystidia 25-40 x 4-9 μ ,
clavate, cylindric, often ~~more or less curved, or~~ ^{only slightly} crooked.
Gill trama subparallel, hyphae 4-7 μ broad. Pileus trama densely
interwoven, gradually more loosely interwoven outward. Cuticle
not differentiated, the surface bearing a turf of tangled, color-
less hyphae, 2-3 μ broad (at times 5 μ). Clamp connections present.

Near Sm-50875.

Pepidotus Thiers - 2950



Ch - x 1000

CREPIDOTUS Thiers-3092

On log (hardwood), cedar swamp, near head of Pigeon River,
Otsego Co. (state?), leg. Thiers, July 10, 1956.

Pileus white, tomentose. Context thin; odor and taste mild.

Lamellae moderately close, medium broad.

(4) 7.5-9 x 4-5 (5.5) μ ,
Spores ~~7.8-8.5 x 4.5-5.5 μ~~ , ellipsoid, inequilateral in
profile, ~~smooth~~ ^{wrinkled-verruculose}, pale yellowish-brown in 2% KOH. Basidia
22-27 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia
27-61 x 4-¹⁷~~16~~ μ , versiform: filamentous, cylindric-capitate,
vesiculose to irregularly so, dumb-bell shaped, not infrequently
bent at right angles. Gill trama subparallel to slightly
interwoven, hyphae 5-9 μ broad. Pileus trama interwoven.
Cuticle of repent hyphae, bearing a turf of colorless hyphae,
2-4 μ broad. Clamp connections present.

obscurus

Type

Crepidotus ~~versutus~~ (Sm-10963)

Pileus 5-30 mm broad, at first pure white and white fibrillose pubescent all over, subglabrescent near margin at maturity, not striate, color sordid brownish and appearing water soaked in age, shape usually applanate, large caps variously wavy or lobed and at times almost orbicular in outline. Flesh thin, soft, whitish, odor and taste mild.

Gills broad, close, adnate to or free from the stipe, white, sordid brown at maturity. Stipe present 2-3 mm or more long .7 or .5 mm thick, white, not furnishing the main attachment of fruiting body to the substratum, fruiting body usually attached by a broad pubescent base, even in orbicular caps, stipe appearing eccentric but cap not truly marginate behind.

Spores $7-8 \times 4-5 \mu$, very faintly roughened, dark brown inner wall and smooth hyaline outer wall, walls of medium thickness, non-amyloid.

Basidia $20.9-22.2 \times 6.5-7.8 \mu$, 2-, 4-spored, hyaline to pallid in KOH. Pleurocystidia none. Cheilocystidia contorted, branched in some, moderately thin-walled, clavate to subglobose, $14.4-27.4 \times 5.2-11.7 \mu$.

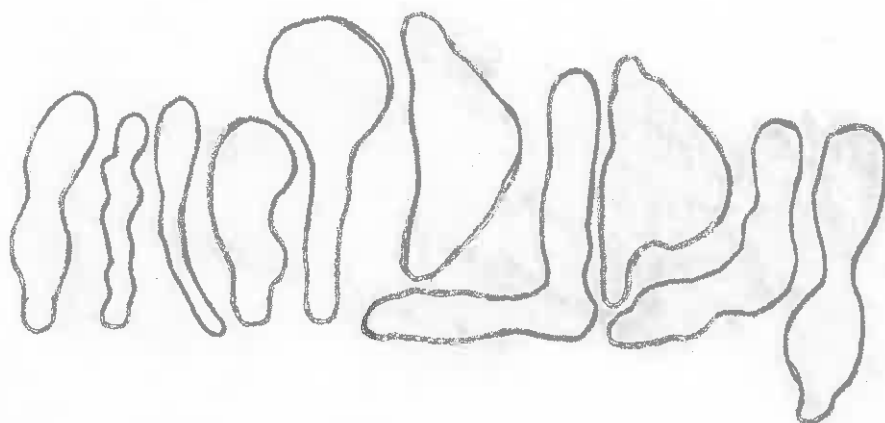
Gill trama parallel to interwoven, hyaline in KOH; pileus trama homogeneous hyaline to pallid in KOH, interwoven; cuticle of long slender hyaline in KOH, appressed hyphae; clamps present.

Habit, habitat and distribution. On basswood, Ann Arbor, Mich. 9-15-38.

Observations. Stipe excludes versutus?

Crepidotus Thiers - 3092

Crepidotellae
(lyphae straight)



Ch - x 1000

CREPIDOTUS Sm-10963

7-9 x 4.5-5.5 μ ^{wrinkled-reverse,}
Spores ~~7-8 x 4-5 μ~~ , ellipsoid, ~~smooth~~, pale brown in
2% KOH, wall double. Basidia 22-26 x 7-8 μ , 4-spored. Pleuro-
cystidia none; cheilocystidia variable, roughly of two types:
(a) more or less cylindric, subventricose, irregular, at times
branched (forked), 24-38 x 4-8 μ ; (b) clavate, napiform to
sphaeropedunculate, 33-55 x 10-28 μ . Gill trama slightly
interwoven, of relatively short cells, hyphae 7-10 (14) μ
broad. Pileus trama interwoven. Cuticle a cutis, with
scattered or rather closely grouped, more or less erect hyphae
which may be branched. Clamp connections somewhat inconspicuous
on the epicuticular hyphae; numerous and conspicuous on the
hyphae of the tomentum at the point of attachment to the
substratum.

This is not C. versutus. It differs from C. versutus
in its close lamellae, the presence of a stipe, smaller and
slightly darker spores, and different cheilocystidia.

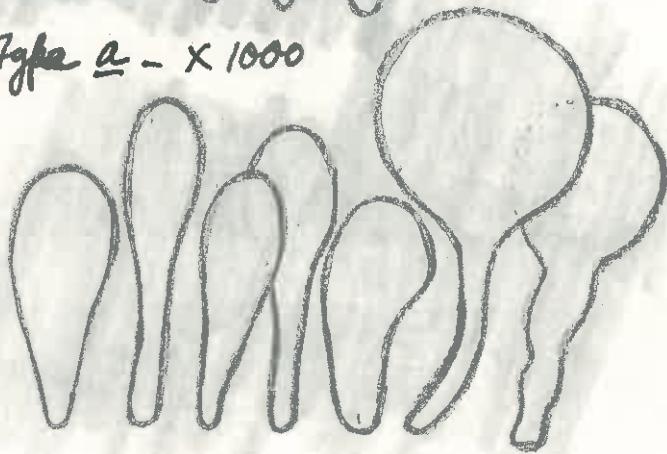
Crepidotus Sm - 10963

Crepidotellae
(hyphae straight)



Type A - x 1000

Ch



Type B - x 1000



Epicuticular hyphae - x 1000

CREPIDOTUS AMYGDALOSPORUS

(Sm-14558)

On alder, Jayce, Wash., June 22, 1939.

Pileus white, pubescent.

Lamellae close, medium broad.

Spores 7-9 x 4.5-5.5 μ , ellipsoid, inequilateral or at times obscurely so, minutely and obscurely punctate. Basidia 27-35 x 6-8 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 23-33 x 4-8 μ , cylindric to clavate, ventricose or at times slightly so, rarely subcapitate, few. Gill trama interwoven, hyphae 5-14 μ broad. Pileus trama loosely interwoven. Cuticle of repent hyphae, bearing a turf of colorless, non-incrusted hyphae, 4-6 μ broad. Clamp connections present.

ampl

CREPIDOTUS Sm-17848

On sticks (deciduous), Port Angeles, Olympics, Wash.,
Oct. 13, 1941.

Pileus whitish, ^{white pubescent or} ~~MAVONNA~~ fibrillose.

Lamellae close, moderately narrow.

Spores ^{7.5-9 x} ~~MAVONNA~~ 4.5-5.5 μ , ellipsoid, slightly inequilateral, obscurely punctate. Basidia 28-32 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 20-44 x 5-9 μ , fusoid, sub-fusoid, cylindric-clavate, more rarely vesiculose or pyriform. Gill trama interwoven or nearly subparallel, hyphae 5-7 μ broad. Pileus trama interwoven. Cuticle of repent hyphae bearing a turf of colorless hyphae 4-6 μ broad. Clamp connections present.

Smith suggests it might be near (same as?) to Sm-49599, but the latter has entirely different cheilocystidia, and a different gill-trama. It can not be versutus which lacks clamps, and has larger spores.

Orepidotus Sm-17848



Ch - x 1000

Crepidotus

CREPIDOTUS SUBVERRUCISPORUS Pilat

(Sm-19443)

Rhododendron, Oregon, Oct. 4, 1944.

Pileus white, 1-2 cm. or less.

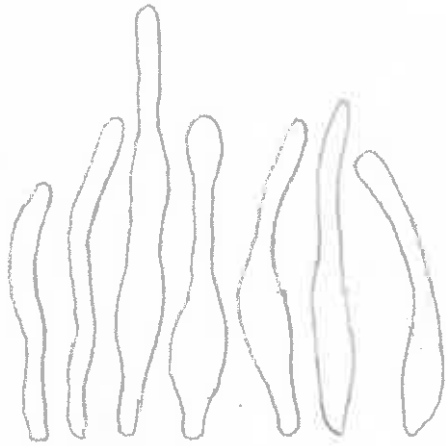
Lamellae broad, subdistant.

Spores 7.5-10 ~~10~~ x 4.7-6 μ , ellipsoid, inequilateral in profile, punctate to wrinkled-rough.

All other characters agree with the type.

Same as McKnight F-106.

Oepidotus subverrucisporus Pilat
(Sm. 19443)



Ch - x 1000

Crepidotellae

CREPIDOTUS SUBMOLLIS Murr.

(Sm-19444)

On Alnus twigs, Rhododendron, Ore., leg. A.H.S.,
Oct. 4, 1944.

Pileus 1-3 cm. broad, conchate, dimidiate or subreniform, dry, matted-fibrillose, white, but in age often dusted with spores, drying pallid, margin long remaining inrolled, finally spreading, often lobed, not striate.

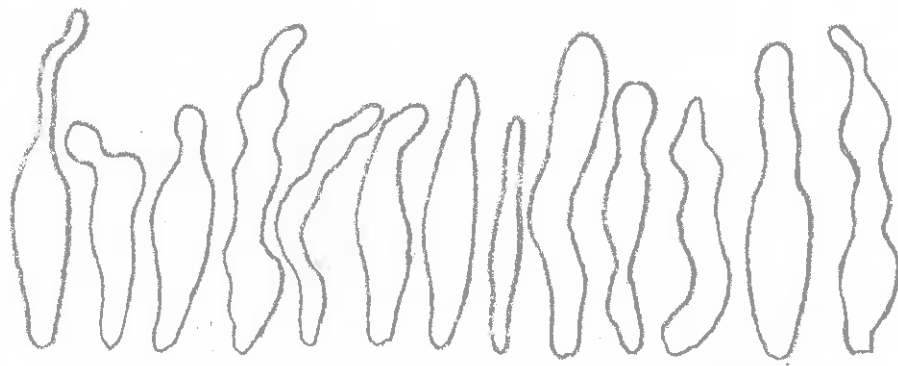
Lamellae radiating, white becoming clay color, narrow to moderately broad, close but not crowded, edges even or crenulate.

Stipe none.

Spores 7-9 x 4.8-6 μ , ellipsoid or ovate, slightly inequilateral in profile, wall slightly thickened, smooth under high dry lens, under oil minute pores give a punctate appearance. Basidia 28-34 x 7-9 (10) μ , 4-spored. Pleurocystidia none; cheilocystidia 28-46 x 4-9 μ , variable: ventricose, filamentous, clavate, bottle-shaped, at times with a long neck, more rarely subcapitate, often more or less constricted and irregular. Gill trama subparallel to interwoven, hyphae 5-8 μ broad. Pileus trama interwoven. Cuticle bearing scattered or numerous (dense), more or less erect, colorless hyphae—trichodermium. Clamp connections present on the epicuticular hyphae and at the base of the basidia.

The spore ornamentation is easily overlooked, and it should be placed under both smooth and rough spored groups in the key.

Grepidotus submolles Murr.
(Sm. 19444)



Ch - x 1000

CREPIDOTUS Sm-20398

On aspen, Mud Lake Bog, Washtenaw Co., Mich.,
leg. A.H.S., June 6, 1945.

Pileus 5-10 mm. broad, fan-shaped, dry, white, minutely tomentose to the incurved margin, opaque, with byssoid mycelium around the base.

Lamellae adnate to short-decurrent, white becoming alutaceous, broad, subdistant.

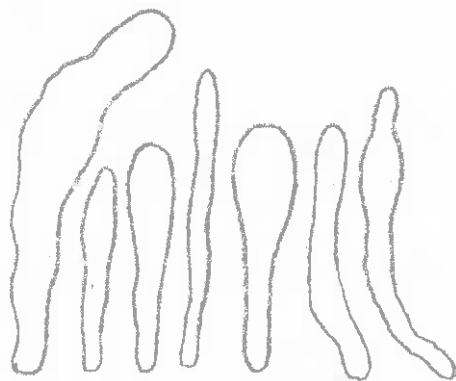
Stipe present as a pseudostipe on the lower side of the pileus.

Spores ^{(6)7-9.5}~~4.5-5.5~~ x 4.5-5.5 (6.5) μ , ellipsoid to ovoid, slightly inequilateral in profile, punctate, near cinnamon buff in 2% KOH. Basidia 21-26 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 27-52 x 3-11 μ , variable: filamentous, clavate, ventricose. Gill trama subparallel, hyphae 4-6 μ broad. Pileus trama interwoven. Cuticle a tangled trichodermium, hyphae long and slender, colorless. Clamp connections present on the epicuticular hyphae.

Smith (notes) says the cheilocystidia are gelatinous and agglutinated in KOH. He reports pilocystidia 40-60 x 5-8 μ .

Cf. Sm-~~52852~~.

Gepidostus Sm-20398



Ch - x 1000

subverrucosus var. *roseifolius*
Crepidotus Sm-28588

Pileus 5-10 mm broad, reniform to orbicular on under side of branch, fan-shaped when on the side, white and unpolished, smooth to sulcate striate, margin flaring in some; flesh exceedingly thin and delicate, white, odor none, taste not recorded. Lamellae broad, subdistant, very thin, radiating from a point, white at first, soon flesh-colored and then pale tawny from the spores, edges even. Stipe absent, but at times the cap marginate all around (pendulous from a central attachment).

Spores $8-10 \times 5-6 \mu$, elliptic to slightly ovate in face view, elliptic to obscurely inequilateral in profile, warty-rugulose (roughened under high dry), thick-walled but wall thin at apex (callus present but indistinct) dull rusty brown in KOH.

Basidia 4-spored, $26-33 \times 8-9 \mu$, hyaline in KOH. Pleurocystidia none. Cheilocystidia $30-40 \times 7-11 \mu$, mostly fusoid - ventricose with obtuse (not capitate apices) varying to flexuous-filamentose and $40-6 \mu$ with apex not especially differentiated (obtuse) hyaline, smooth, thin-walled.

Gill trama somewhat interwoven, hyaline, lacking pigment incrustations. Pileus trama homogeneous, with a loose turf of frequently branched to pegged hyphae of hyaline smooth threads $4-8 \mu$ in diam.; clamps abundant.

Habit, habitat and distribution. Scattered on alder bark, Troutdale, Ore., Nov. 7, 1947, Sm-28588.

Observations. The spores are roughened much as one finds in Cortinarius and the color in KOH, though paler is the same hue. The larger spores at once distinguish it from 47698. The loosely arranged turf-hyphae at times have short branches tapered to an acute apex.

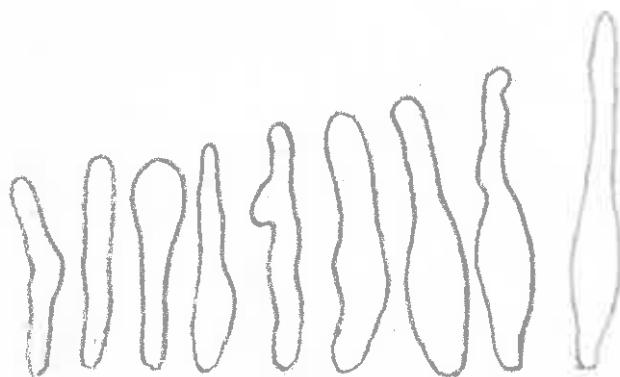
CREPIDOTUS Sm-28588

(10)

Spores 7.5-9.5^Λ x 5-7 μ , more rarely larger, wall wrinkled-rough, ellipsoid (front view), slightly inequilateral (profile), brownish in 2% KOH. Basidia 23-28 x 6-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 25-~~40~~⁴⁷ x 3-8 μ , cylindric-filamentous, clavate, ventricose, ampullaceous, nine-pin-shaped. Gill trama more or less interwoven, hyphae 5-10 μ broad. Pileus trama interwoven. Cuticle repent, with some more or less erect hyphae which are colorless and branched, at times forming a thin turf. Clamp connections on the epicuticular hyphae.

Orefidotus

Sm - 28588



Ch - x 1000

CREPIDOTUS Sm-29546

On deciduous stick, Lower Tahoma, Mt. Rainier Nat'l. Park, *Washington*,
July 28, 1948.

(near submollis and Sm-19444)

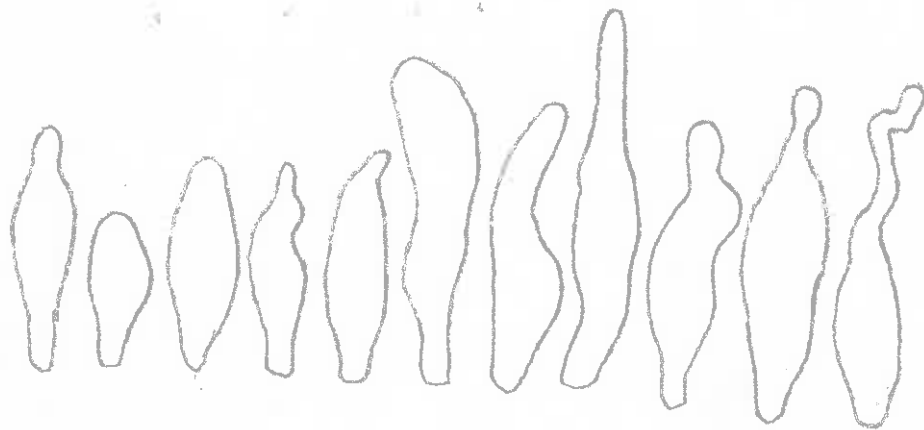
Pileus white, fibrillose or villose.

Lamellae medium broad, close.

Spores 7-9 (9.5) x 4.5-5 (5.5) μ , ellipsoid, slightly inequilateral in profile, obscurely punctate. Basidia 27-33 x 7-8 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 21-50 x 7-11 μ , ventricose to more or less clavate, at times mucronate or appendiculate. Gill trama slightly interwoven, hyphae 5-8 μ broad. Pileus trama densely interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 4-6 μ broad, the terminal elements at times pilocystidioid. Clamp connections present.

Near to, or same as, C. amygdaliformis ^x ~~formis~~ *Kühner*
A. intermedium, C. submollis.

Orepidotus Sm. 29546



Ch. x 1000

subnervicarpus
var. noroefilius
CREPIDOTUS Sm-36848

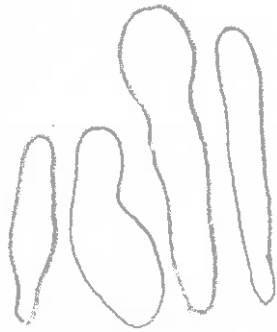
On aspen, Devereaux Lake, leg. A.H.S., July 11, 1951.

Pileus white, unpolished, pubescent.

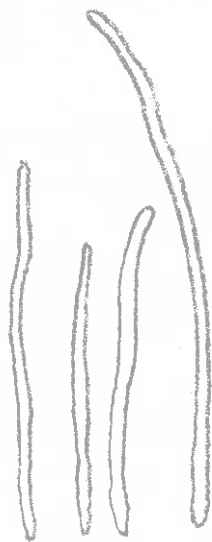
Lamellae white, broad or medium broad.

Spores 7-9 x 4.5-5.3 μ , ellipsoid ~~to slightly~~ ~~slightly~~,
inequilateral in profile, appearing wrinkled-rough, yellowish-
brown in 2% KOH, reddish in deposit. Basidia 24-27 x 5-6 μ ,
4-spored. Pleurocystidia none; cheilocystidia 24-40 x 5-10 μ ,
clavate, cylindric, or ventricose. Gill trama subparallel,
hyphae 3-6 μ broad. Pileus trama interwoven. Cuticle repent
with scattered or dense more or less erect, colorless hyphae
(38-70 x 2-2.5 μ). Clamp connections present.

Oreodontus Sm. 36848



Ch - x 1000



Epicuticular hyphae - x 1000

amygdaliformis

CREPIDOTUS Sm-49805

On hardwood, Pellston Hills, July 29, 1955.

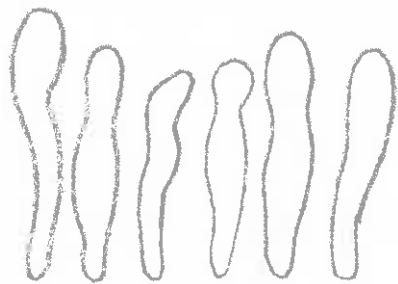
red?
Pileus white, glabrous or nearly so; taste mild.

Lamellae close or crowded, narrow, alutaceous in age.

Spores (6) 7-⁹~~8~~ x 4.3-5.5 μ , ellipsoid, somewhat
inequilateral in profile, obscurely ~~punctate~~ ^{punctate},
brown. Basidia 27-32 x 6-7 μ , 4-spored. Pleurocystidia none;
cheilocystidia 27-35 x 5-6 μ , clavate, ventricose, at times
somewhat capitate. Gill trama interwoven, hyphae 7-15 μ broad.
Pileus trama interwoven. Cuticle of repent hyphae; numerous
spores tend to cling to the cuticle. Clamp connections present.

Cf. Sm-10963 & Sm-33693.

Pepidotus Sm - 49805



Ch - x 1000

On hardwood,

CREPIDOTUS Sm-49808 *submollis*

^ Pellston Hills, leg. A.H.S., July 29, 1955.

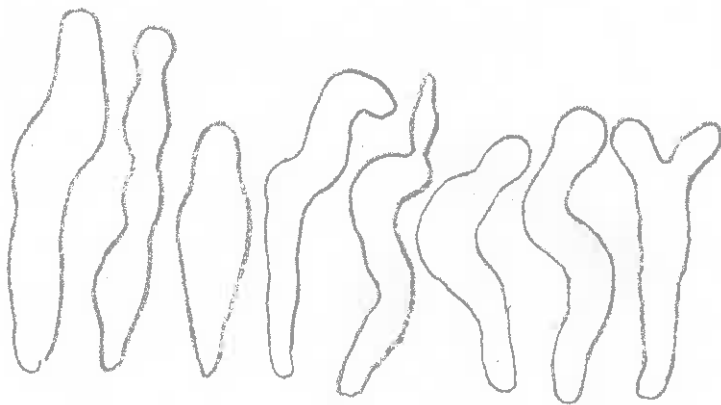
Pileus 10-15 mm. broad, white, fibrillose, dry.

Famellae medium close, broad to medium broad.

Spores 7-9 x 4.5-5.5 μ , ellipsoid, slightly inequilateral

in profile, obscurely punctate, brownish. Basidia 28-32 x 7-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 33-50 x 5-10 μ , cylindric and at times constricted and capitate, clavate, ventricose, apices obtuse, more rarely forked. Gill trama interwoven, hyphae 6-11 μ broad. Pileus trama interwoven, hyphal arrangement similar to that of the gill trama. Cuticle not sharply differentiated; surface hyphae more loosely arranged than in the pileus trama, forming a conspicuous zone, 70-125 μ thick. Clamp connections present on the epicuticular and gill trama hyphae.

Pepidostus Sm - 49808



Ch - x 1000

subnormaniformis
var. noronae

Crepidotus Sm-50875



Pileus 1-2 cm, fan-shaped to applanate, margin inrolled and pruinose, white over all and minutely fibrillose under hand lens, scarcely byssoid at the base, in age glabrous, flesh white, with a rubbery texture, odor and taste none.

Gills close, narrow, white adnate to adnexed to pseudo-stipe, white becoming cinnamon, edges even. Pseudostipe 1-2 mm long and up to 1 mm thick, hyaline white, broad at apex narrowed to base, disappearing in age.

Spores $6.5-9.1 \times 3.9-5.2 \mu$, bright ochraceous when fresh (in H_2O mostly) "Sayal" brown" in deposits when old, elliptical in profile, with a distinct suprahilar depression, inner wall dark brown, roughened with fine echinulations projecting into or through the hyaline outer wall, the outer wall slightly thicker than the inner wall, (the outer wall tends to swell in KOH and become gelatinous), both walls together of medium thickness, old gold revived in KOH, non-amyloid in Melzer's.

Basidia 4-spored, $22-26 \times 7-8 \mu$, hyaline in KOH, clavate. Pleurocystidia none seen. Cheilocystidia $20-30 \times 6.5-10 \mu$, clavate, ~~hyaline in KOH~~, hyaline in KOH, non-amyloid, plentiful, thin-walled and collapsed with cell contents gone.

Gill trama regular parallel to interwoven, narrow hyaline hyphae, no distinct subhymenium; pileus cuticle appearing to have a diffuse trichodermial arrangement, entirely of narrow (5-7 μ) greenish hyaline hyphae. Pileus trama composed of large and small hyphae closely interwoven becoming more and more loosely associated as one nears the pileus surface, pileus cuticle (surface) composed of much-branched long large hyaline hyphae loosely interwoven, clamp connections present but not abundant.

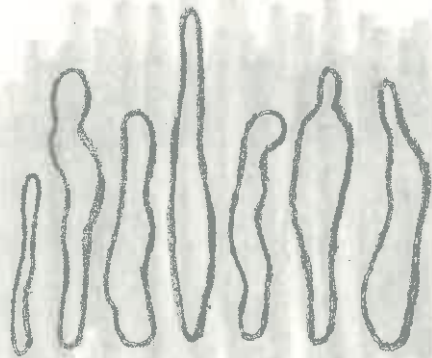
Habit, habitat and distribution. On aspen log, Pellston
Hills, Pellston, Mich., 10-7-55.

CREPIDOTUS Sm-50875

Spores 7-9 x 4-5 μ , subellipsoid, at times subfusoid, inequilateral in side view, slightly ^{wrinkled to} punctate-rough, pale in 2% KOH. Basidia 26-31 x 7-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 23-43 x 2-7 (apex) x 6-7 μ (middle or base), cylindric-filamentous, clavate, at times appendiculate, obclavate, ventricose. Gill trama undulating subparallel, hyphae 6-8 μ broad. Pileus trama interwoven. Cuticle repent, with numerous loosely interwoven more or less erect epicuticular hyphae which are 3-7 μ broad. Clamp connections on the epicuticular hyphae.

Crepidulus

Sm - 50875



Ch - x 1000

*submicroporus -
var. noraeifolius*
CREPIDOTUS Sm-50885

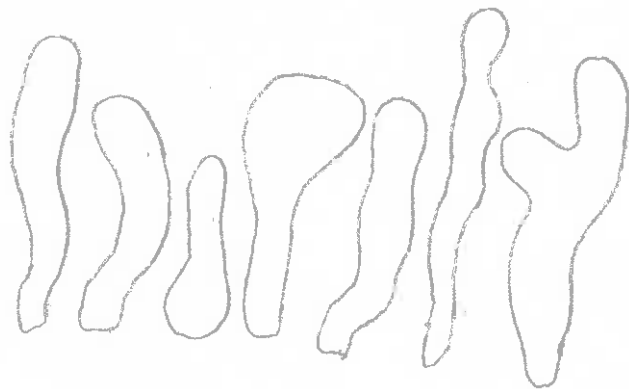
On hardwood, Pellston, Oct. 7, 1955.

Spores 7.5-9 x 4.3-5 μ , ellipsoid, inequilateral in profile, ~~primitae~~ ^{wrinkled-verrucose}. Basidia 30-37 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 23-47 x 6-15 μ , clavate to filamentous, at times capitate, occasionally somewhat contorted and branched or forked. Gill trama slightly interwoven, hyphae 3-5 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, at times glabrous, again with scattered or dense, erect hyphoid pilocystidia, 35-110 x 2-2.5 μ , or with a turf of tangled hyphae. Clamp connections present, rare.

Smith says see card 50875, which ~~may be~~ ^{is} the same.

P. white

Orepidotus Sm - 50885



Ch - x 1000

CREPIDOTUS SUBMOLLIS Murr.
(Sm-50938)

On aspen bark, Mud Lake Bog, Cheb. Co. Mich. 10-9-55

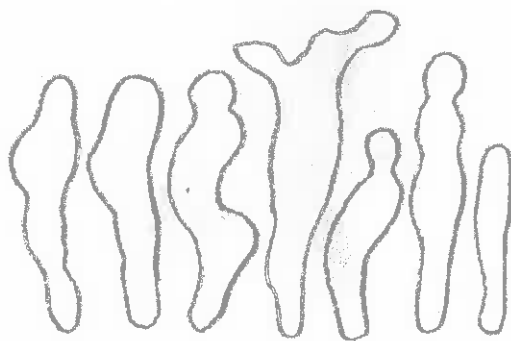
Pileus 1-3 cm. broad, white and pruinose-pubescent, in age more or less glabrous and pinkish buff to cinnamon buff, margin inrolled and pubescent when young, no byssoid structure at base, applanate to ungulate; flesh thin, white, odor and taste none. Lamellae close, narrow becoming ventricose and broad in age, attached at point of attachment of cap to substratum or to an obscure tubercle, 2-4 tiers lamellulae, edges even, faces white becoming clay color to ochraceous tawny.

Spore deposit dingy clay color.

Spores 7-9 x 4.5-6 μ , ellipsoid to ovoid in face view, slightly inequilateral in profile, slightly rough (under oil), brownish. Basidia 22-31 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 24-46 x 4-9 μ , slender-filamentous or more often clavate, usually irregularly so or contorted, more rarely forked at apices. Gill trama subparallel, hyphae 3-7 μ broad. Pileus trama more or less loosely interwoven. Cuticle repent, often bearing numerous aerial hyphae, 3-10 μ broad. Clamp connections present on the epicuticular and gill trama hyphae.

Crepidotus

Sm. 50938



Ch - x 1000

CREPIDOTUS Sm-50942

On cedar, Mud Lake Bog, Cheboygan Co., Mich., Oct. 9, 1955.

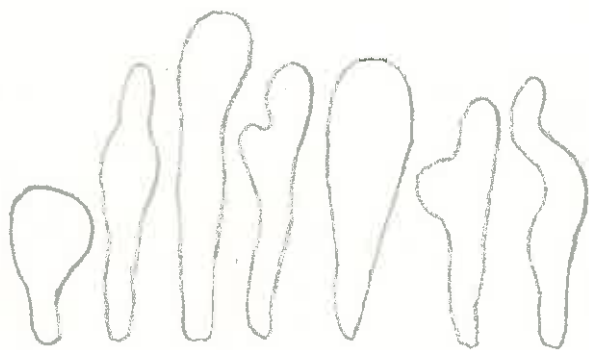
clay color

Spores 6-9 x 4.5-5.7 μ , [^]ellipsoid, slightly to not at all inequilateral in profile, obscurely punctate. Basidia 22-28 x 5-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 21-43 x 5-12 μ , cuneiform, clavate-vesiculose, clavate, ventricose, ~~at times contorted~~ ^{at times slightly} ~~broadened, or~~ knobbed. Gill trama subparallel, hyphae 3.5-8 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, often bearing scattered to numerous, more or less erect hyphae. Clamp connections present.

Same as Sm-50938, but on cedar.

Near C. amygdalosporus Kühner (see my notes & drawings on collection from Bas).

Grepidotus Sm-50942



Ch - x 1000

The material fails to suggest
that any of the pilei were
3 cm broad.

Crepidotus Sm-50945

(cheek clamps on hyphae of pileus trama again)

Pileus 1-3 cm broad, fan-shaped to nearly circular in outline (on under side of substrata), surface glabrous, translucent striate, when moist pale watery gray, no byssoid structure at base, pallid and unpolished when faded, flesh very thin and very soft, no odor or taste. Lamellae close but distinct, attached to a point, narrow to moderately broad and equal, \pm 3 tiers of lamellulae, grayish pallid becoming buffy avellaneous, edges even.

Spores "tawny olive" in deposit (adding yellow-brown), 6.5-8.5(9.1) \times 5.2-6.0 μ , slightly inequilateral in side view, ovoid-elliptical, inner wall minutely roughened to smooth, roughenings caused by minute echinulations in the inner wall which may or may not project beyond the epispore wall and which give spore a finely punctate appearance, tawny olive, outer wall pale translucent cinnamon and the epispore wall projections may or may not project into it, both walls thin, together give medium wall thickness, not collapsing,

Basidia 4-spored, 19.6-49.8 \times 6.5 μ hyaline in KOH, nonamyloid, absorb Phloxine B. more readily than do cheilocystidia, refractive granular content. Pleurocystidia none. Cheilocystidia 6.5-13.1 \times 20.9-32.6 μ , abundant, collapsing, thin-walled, enlarged, contorted to subcapitate.

Gill trama, intricately interwoven and cells inflated with thick subhymenium of narrow subparallel hyphae, no color or incrustations in H₂O fresh or in KOH as revived. Pileus trama homogeneous hyaline in KOH of slightly inflated intricately interwoven cells, hyphae become longer and more inflated toward the surface, hyphae appressed on the surface, clamps present in basal fibers obs.; soft striate, grayish species.

Habit, habitat and distribution. Gregarious on basswood bark, Mud Lake Bog, Cheb. Co., Mich. October 9, 1955.

Wrinkled

CREPIDOTUS Sm-50945

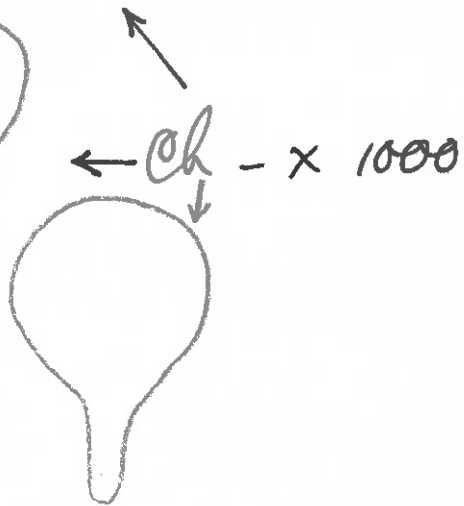
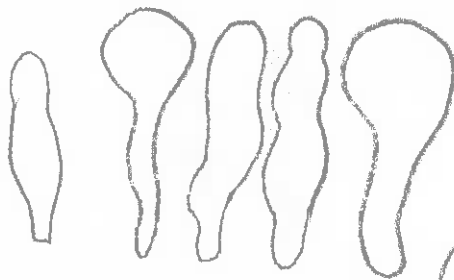
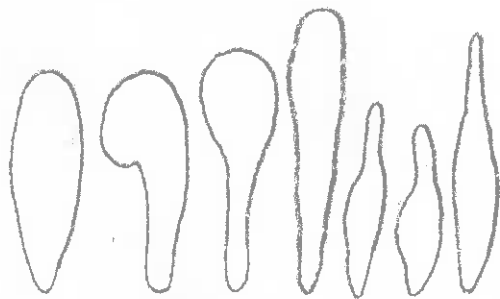
Spores ⁷~~8.5~~-9 x 4.5-5.5 (6) μ , ellipsoid to ovoid in face view, slightly inequilateral in profile, faintly rough ^{-wrinkled,} ~~no~~ punctations appear to be on the inner wall. Basidia 20-28 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 22-⁴⁰~~31~~ x 4-15 (27) μ , variable in size and form: vesiculose, pyriform, clavate and more or less capitate, ventricose, at times strangulate. Gill trama interwoven, hyphae 6-14 μ broad, hyphae of subhymenium narrow, subparallel. Pileus trama interwoven; hyphae of more or less inflated cells, longer and more inflated toward the surface. Cuticle of repent hyphae, more rarely an occasional hypha more or less erect. Clamp connections rare on the surface hyphae; Smith found them on the basal hyphae.

Smith (notes) reports basidia up to 49.8 μ long.

the ch recall
from 7 10963

Cepidotus

Sm-50945



← Ch → × 1000

subovoidiformis
var. magniformis

CREPIDOTUS Sm-51540

On aspen (?), Ophir, Colo., July 31, 1955.

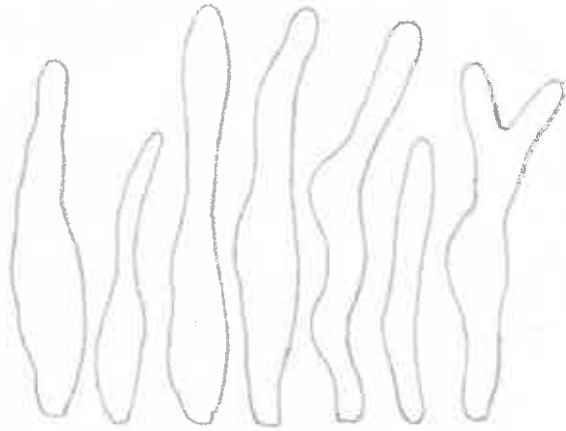
Pileus white, fibrillose.

Lamellae medium broad, subdistant or nearly so.

Spores 8.5-13 x 5-7.3 μ , ellipsoid to ovoid, inequilateral in profile, ~~wrinkled~~ ^{wrinkled}. Basidia 27-33 x 8-10 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 37-55 x 4-10 μ , ventricose with a neck or filamentous-cylindric, rarely forked. Gill trama interwoven, hyphae 5-10 μ broad. Pileus trama densely interwoven. Cuticle of repent hyphae bearing a turf of colorless hyphae, 4-6 μ broad. Clamp connections present.

Near Sm-49806 which has smaller spores and basidia. ~~Also,~~
Near Sm-28588, also with smaller spores.

Orepidotus Sm - 51540



Ch - x 1000

subconcomitans var *magnisporus*
CREPIDOTUS Sm-51582

On alder, Ophir, Color., Aug. 1, 1956.

Pileus white, fibrillose.

Lamellae pinkish, broad or medium broad, subdistant.

Spores 9-12.5 x 5.5-7 μ , wrinkled. Basidia 28-34 (37) x 7-10 μ , 4-spored (rarely 2-spored).

All characters as in Sm-51540.

sub-nerviformis var *magniformis*
CREPIDOTUS Sm-51947

On aspen and alder, Ophir, Color., Aug. 7, 1956

Notes by Smith

Pileus 5-15 (20) mm. broad, unguulate to dimidiate, margin white and inrolled at first, surface white from fibrils, cottony toward base and with white mycelium surrounding point of attachment, in age becoming dingy vinaceous buff. Context soft, thin, odor and taste not distinctive.

Lamellae broad, close, attached at base of cap (point of attachment to the substratum), white at first, becoming pinkish and finally rusty brown from the spores, edges even.

Stipe lacking.

~~Spores~~

CREPIDOTUS Sm-51947

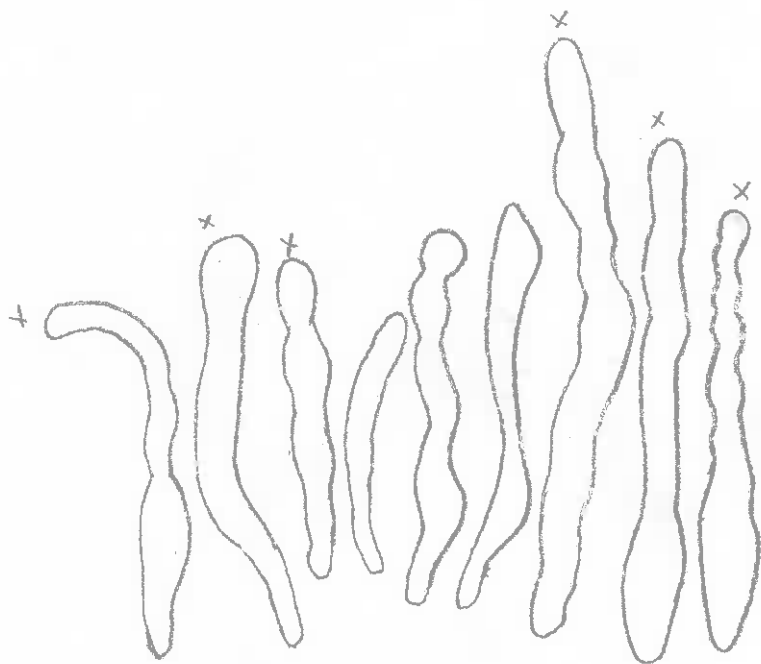
(cf. Sm-52852)

Notes by Hesler

Spores (7.5) 8.5-12 x 5-5.5 (6) μ , ellipsoid to ovoid in front view, often pip-shaped, more or less inequilateral in profile, ~~slightly punctate~~ *wrinkled*, wall double, medium thick, brownish. Basidia 28-34 x 6-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 35-76 x ~~3-4 (apex) x 4-8 μ (lower portion)~~, cylindric to clavate, at times flask-shaped to obclavate, walls often wavy to strangulate (no evidence of gelatinization). Gill trama interwoven, hyphae 4-7 μ broad. Pileus trama densely interwoven. Cuticle of reprnt hyphae, bearing a turf of erect colorless ~~(white)~~ hyphae (somewhat as a palisade), 3-6 μ broad. Clamp connections present.

Orepidotus

Sm - 51947



Ch - x 1000



Cuticle : diagrammatic
(Cuticle same as in Sm-52152)

CREPIDOTUS Sm-52229

subterranean var
magnusporus

On aspen, Trout Lake, San Juan Mts., Colorado, Aug. 15, 1956.

Pileus white, villose to tomentose.

Lamellae pink, medium broad, nearly subdistant.

Spores 8-¹²~~14~~ x 5.5-7.5 μ , broadly ellipsoid, inequilateral in profile, punctate-wrinkled, rusty. Basidia 27-40 x 7-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 44-76 x 4-8 μ , filamentous, often more or less flexuous, at times capitate, more rarely with a knob-like branch, clavate. Gill trama more or less interwoven, cells rather short, 5-10 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 3-7 μ broad. Clamp connections present.

The large wrinkled-punctate spores, long cheilocystidia, and long basidia, are characteristic.

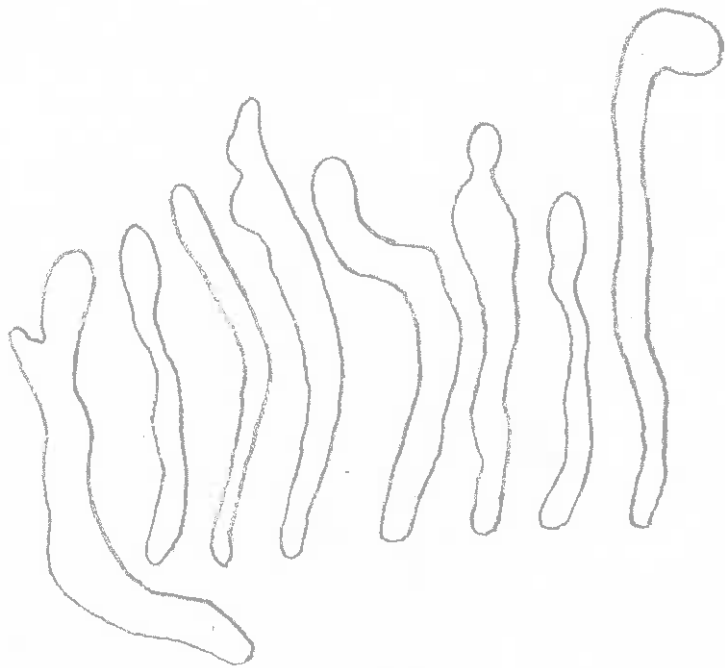
subverrucisporus var magnisporus
CREPIDOTUS SM-52375

Ophir, Colo., Aug. 17, 1956

Spores 7-10 x 5-6 μ , ellipsoid, more or less inequilateral, wrinkled. Basidia 27-35 x 6-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 43-92 x 3-8 μ , cylindric, often more or less capitate, ventricose with a neck, often flexuous, more rarely hooked. Gill trama interwoven, hyphae 3-6 μ broad. Pileus trama densely interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae. Clamp connections present, small, inconspicuous.

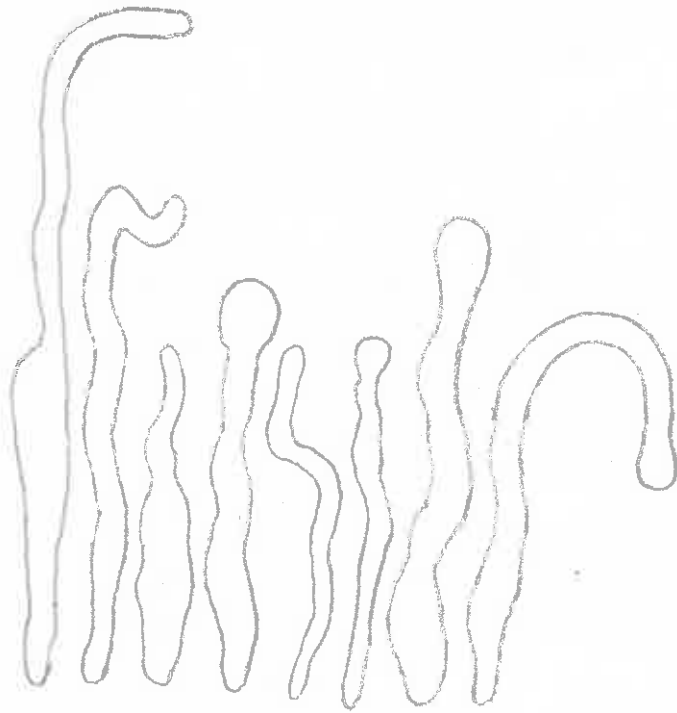
Near subverrucisporus. Same as Sm-51947 (see card).

Grepidotus Sm. 52229



Ch - x 1000

Orepidium Sm. 52375



Ch - x 1000

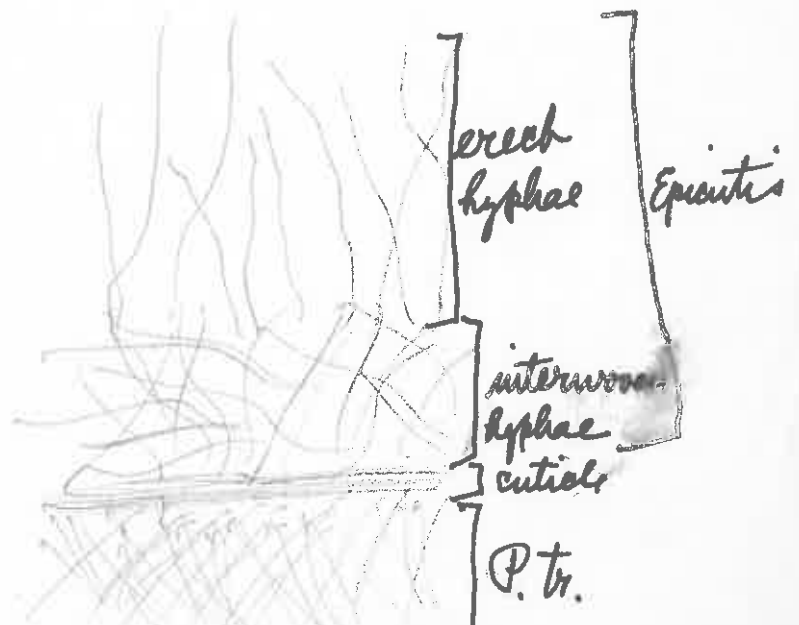


Diagram of Cuticle

subvariety nov. var. porcifolius
CREPIDOTUS Sm-52852
(cf. Sm-51947)

PHOTO

On aspen, Ophir, Colo., Aug. 26, 1956

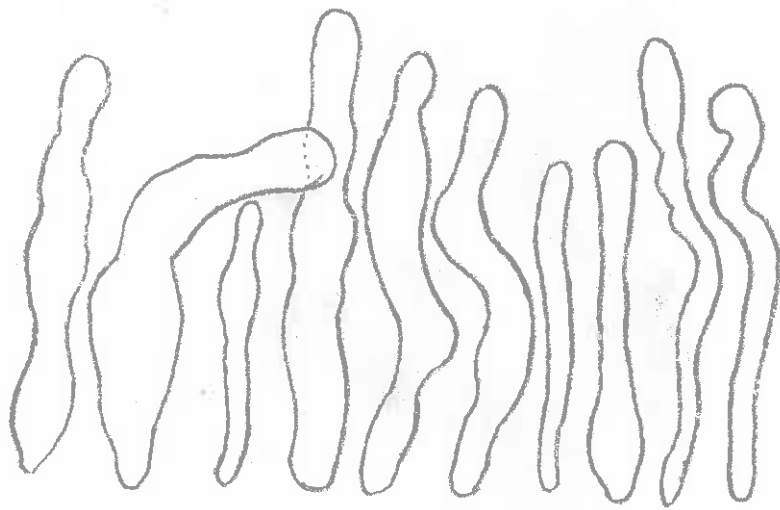
Pileus 10-15 mm. broad, ungulate to dimidiate, dry and somewhat appressed-fibrillose, white at first or whitish, more dingy in age and often dusted cinnamon from the spores, pubescent under a lens, margin crenate in age in some. Context thin, white, unchanging, odor and taste not distinctive. Lamellae close, moderately broad, white becoming pinkish and finally cinnamon, attached to a pseudostipe or merely rising around a basal point. Stipe none or present only as a pseudostipe.

Spore deposit "Sisal brown,"

Spores 7-9 x 4.5-5.5 μ , ellipsoid to ovoid (face view), slightly inequilateral (profile), wrinkled, brown. Basidia 27-33 x 6-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 38-63 x 4-12 μ , cylindric, ventricose, obclavate, often crooked, at times faintly subcapitate. Gill trama interwoven, hyphae 5-8(10) μ broad, Pileus trama closely interwoven. Cuticle not always sharp, bearing a turf, the hyphae 3-6 μ broad, apices not coiled. Clamp connections on epicuticular hyphae.

The cuticle and cheilocystidia are as in Sm-51947, but the spores (of Sm-52852) are noticeably shorter than in Sm-51947.

Crepidatus Sm-52852



Ch - x 1000

(Cuticle as in Sm-51947)

subverruciformis
var. roseifolius
CREPIDOTUS Sm-52860

On alder, Ophir, Colo., Aug. 26, 1956.

Pileus whitish, fibrillose, resupinate.

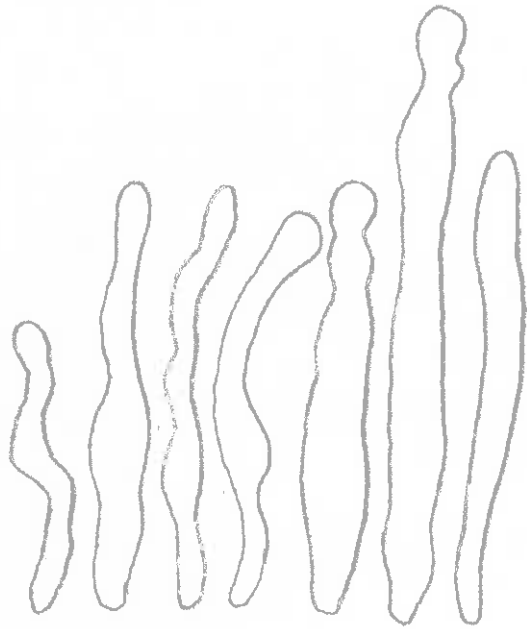
Lamellae pinkish when young, close, broad, edges white-fimbriate.

Stipe present only in younger stages, 1 mm. x 0.25 mm., disappearing.

Spores (6) 7-10 x (4.2) 5-7 μ , deposit: "sage brown" or duller, ellipsoid, inequilateral, wrinkled. Basidia 27-35 x 7-8 (9) μ , 4-spored. Pleurocystidia none; cheilocystidia 37-81 x 4-9 μ , filamentous, slender-clavate, ventricose, more or less flexuous, at times subcapitate. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 3-5 μ broad. Clamp connections present.

Near (same as?) Sm-51947 (subverrucisporus?)

Orepidotus Sm - 52860



Ch - $\times 1000$

CREPIDOTUS Sm-52903

On alder, Ophir, Colo., Aug. 26, 1956.

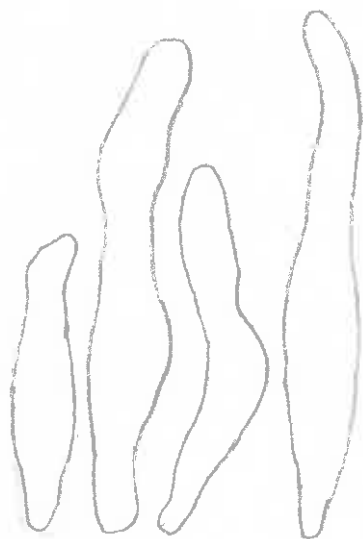
Pileus white, villose.

Lamellae broad, close, edges white-fimbriate.

Spores 7.5-10.5 x 4.5-7 μ , ellipsoid or somewhat oblong, or long-ovoid, wrinkled. Basidia 28-34 x 7-8 (9) μ , 4-spored. Pleurocystidia none; cheilocystidia 40-68 x 8-12 μ , ventrose or irregularly broad-cylindric. Gill trama interwoven, hyphae 6-10 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae 3-6 μ broad. Clamp connections present.

Cf. Sm-52860. The material is scarcely worth keeping: it seems to have been more or less eaten by an animal. Study was unsatisfactory.

Pepidotus Sm - 52903



Ch - x 1000

subterraneanus
var. roseifolius
CREPIDOTUS Sm-52910

On hardwood, Ophir, Colo., Aug. 26, 1956.

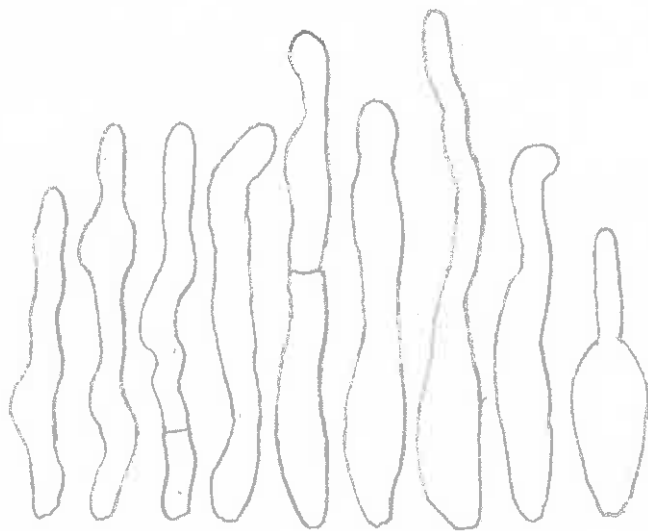
Pileus white.

Lamellae pinkish cinnamon, close, broad.

Spores 7-9.5 x 4.5-5.5 μ , ellipsoid, wrinkled. Basidia 24-32 x 7-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 37-70 x 4-10 μ , bottle-shaped, cylindric, more or less flexuous, or ventricose with a neck, occasionally septate. Gill trama interwoven, hyphae 5-11 μ broad. Pileus trama interwoven. Cuticle of repent hyphae bearing a turf of colorless hyphae, 2-3 μ broad. Clamp connections present.

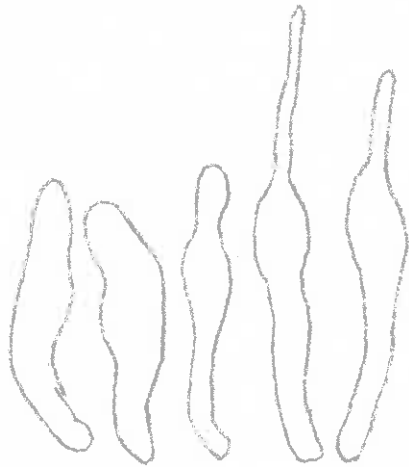
Cf. Sm-52860.

Crepidotus Sm-52910



Ch - x 1000

Pepidatus Sm - 57889



Ch - x 1000

subversatilis
var. roseifolia

CREPIDOTUS Sm-60919

On hardwood, Pellston Hills, July 5, 1959, leg. F. B. Cotner.

10-25 mm broad, flabelliform, white, slightly villous.
Pileus ~~villous~~, Taste mild.

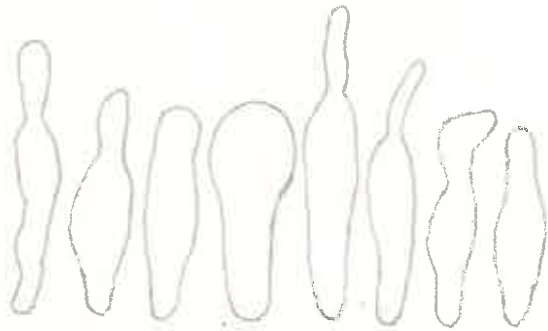
Lamellae broad to medium broad, close, cinnamon.

Spores ~~7-9~~ ⁷⁻⁹ ~~4-5.5~~ ^{4-5.5} ~~ellipsoid~~ ^{ellipsoid} ~~allipsoid~~ ^{allipsoid}, ~~7-9~~ ⁷⁻⁹ ~~4-5.5~~ ^{4-5.5} ~~μ~~ ^μ, ~~inequilateral~~ ^{inequilateral}, ~~wrinkled~~ ^{wrinkled}, ~~pale brownish~~ ^{pale brownish}, (cinna-
~~mon)~~ ^{mon}).

~~Basidia~~ ^{Basidia} 24-28 x 6-7 μ, 4-spored. Pleurocystidia none; cheilocystidia 26-42 x 6-11 μ, clavate-cylindric with a neck, ventricose and at times capitate, clavate-capitate. Gill trama interwoven, hyphae 4-8 μ broad. Pileus trama loosely interwoven. Cuticle of 5-6 layers of repent hyphae, bearing few to scattered, or numerous hyphae, at times a turf, hyphae 2-3 μ broad. Clamp connections few, small.

~~Of Sm-29213 and 36812~~

Repidotus Sm-60919



ch. x 1000

*subterranean
var. roseifolius*
CREPIDOTUS Sm-61027

On hardwood, Tahquamenon, July 8, 1959

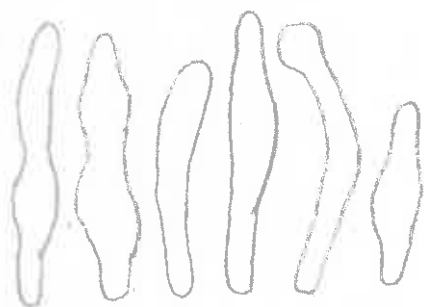
Pileus 6-14 mm. broad, flabelliform, fibrillose.

Taste none.

Lamellae close, medium broad, bright cinnamon.

Spores 7-9 x (3.5) 4-4.5 μ , ellipsoid, inequilateral in profile, obscurely wrinkled ~~wrinkled~~. Basidia 22-26 x 5-6 μ . Pleurocystidia none; cheilocystidia 24-38 x 5-7 μ , filamentous, clavate, ventricose, at times slightly constricted. Gill trama subparallel, at times undulating, hyphae 4-8 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 2.5-4 μ broad. Clamp connections present.

Grepidotus Sm - 61027



Ch - x 1000

sub-remarginatus
var. roseifolius

CREPIDOTUS Sm-63568

On stick (deciduous), Pellston Hills, July 20, 1961.

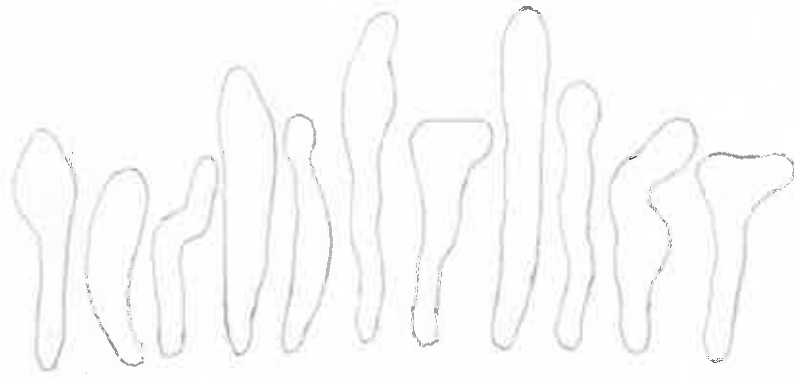
5-9 mm broad, semiorbicular or orbicular,
Pileus white, pubescent, striate (dried).

Lamellae broad or moderately so, close or nearly
subdistant.

present,
Stipe at times rudimentary.

sub-ellipsoid to ellipsoid,
Spores 7-10 x 4-4.5 (5) μ , ~~narrowly~~ *wrinkled or* inequilateral
in profile, punctate, dull clay color. Basidia 26-32 x
5-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia
25-45 x 4-13 μ , filamentous and often crooked, clavate and
at times capitate, cylindric, occasionally spathulate-
stipitate. Gill trama slightly interwoven, hyphae 4-8 (12) μ
broad. Pileus trama interwoven. Cuticle of repent hyphae,
bearing a tangled turf of long, narrow (2.5-3.5 μ), colorless
hyphae. Clamp connections present, small and inconspicuous.

Orepidotus Sm - 63568



Ch - x 1000

phrenuiform - not as delicate as ample
CREPIDOTUS Sm-63570a

7
PHOTO

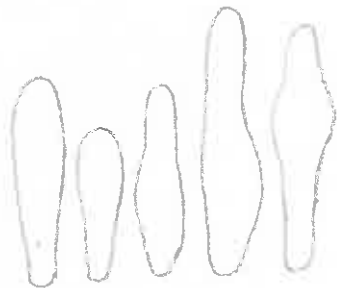
On hardwood, Colonial Point Hardwoods, July 16, 1961.

Pileus 8-35 mm broad, white, glabrous or villose.

Lamellae white, close, narrow.

wrinkled to rough
Spores 7-10 ~~10-12~~ x 4-5 μ , ellipsoid, *inequilateral in profile,* ~~transverse~~. Basidia 24-29 x 6-8 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 19-34 x 6-8 μ , clavate, flask-shaped, subventricose, not always conspicuous. Gill trama undulating-subparallel to slightly interwoven. Pileus trama interwoven. Cuticle of repent hyphae, at intervals with long colorless hyphae, 2-3 μ broad. Clamp connections present.

Crepidulus Sm-63570a



Ch - x 1000

submellei
CREPIDOTUS Sm-63587

On aspen, Pellston, Mich., July 17, 1961.

Pileus 1-2 cm. broad, more or less dimidiate, glabrous or slightly white-pubescent at base, whitish becoming pale cinnamon, thin and diaphanous, margin inrolled at first. Context thin, soft, white, odor and taste none.

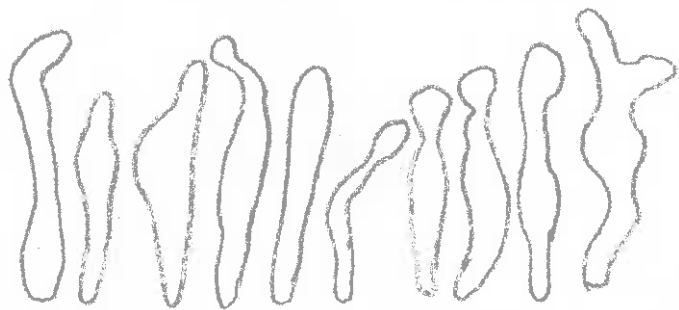
Lamellae white thin, becoming pinkish cinnamon, crowded, narrow, adnate to a stipe-like base.

Stipe 0.1-1 mm. long, prominent in buttons but obliterated in age, hyaline, naked.

(6.5-)7-10
4-5.5μ

Spore deposit "cinnamon". Spores ~~7-10~~ x ~~4-5.5~~ μ, ellipsoid, ~~to broadly subfusoid in front view, and inequilateral in side view, slightly rough,~~ ^{obscurely rough,} wall double, medium thick, ^{yellowish-} brownish. Basidia 23-28 x 6-7 μ. Pleurocystidia none; cheilocystidia 25-37 x 3-8 μ, clavate, irregularly cylindric, ventricose, at times subcapitate, often more or less constricted. Gill trama slightly interwoven, hyphae 3-7 μ broad. Pileus interwoven. Cuticle of more or less repent hyphae, not sharply differentiated from the trama, rarely the surface hyphae erect. Clamp connections on the cuticular, pileus trama, and basal tomentum hyphae.

Cepidotus Sm-63587



Ch - x 1000

CREPIDOTUS Sm-63640

(= 66905)

On aspen, Pellston Hills, July 24, 1961.

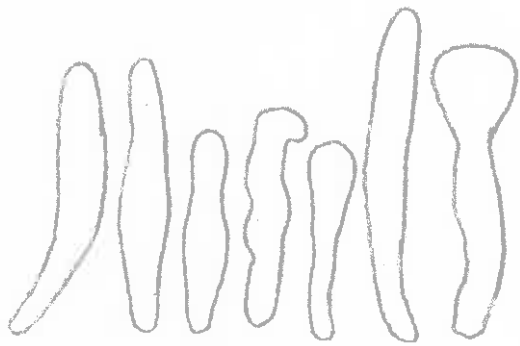
Pileus white, glabrous or nearly so, or at times white-fibrillose, surface dull, margin finally irregular. Taste mild.

Lamellae broad, close, white then cinnamon.

Pseudostipe present.

Spores 7-9 x 4-4.6 μ , ellipsoid, inequilateral, punctate, color in deposit: dull cinnamon. Basidia 23-27 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 26-45 x 5-11 μ , clavate, at times capitate, or ventricosē. Gill trama interwoven, hyphae 3-6 μ broad. Pileus trama loosely interwoven, ~~in the upper three-fourths densely~~
~~below a more or less stratum.~~ Cuticle of repent hyphae, bearing scattered or numerous more or less erect, colorless hyphae, 3-4 μ broad. Clamp connections present.

Crepidulus Sm-63640



ch- x 1000

CREPIDOTUS SUBVERRUCISPORUS Pilát

PHOTO

(Sm-66383)

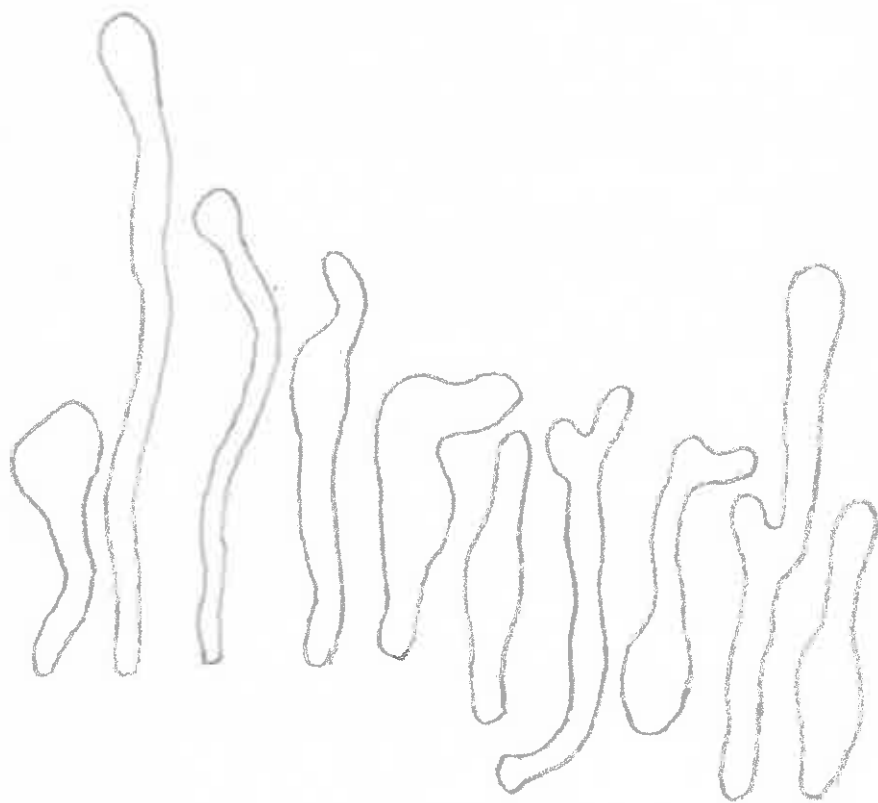
On Tilia, Huron Mts., Mich., June 15, 1963.

Pileus 1-3 cm broad, concave to fan-shaped, margin often lobed or contorted, watery-white, covered by a thin coating of snow white fibrils, watery pallid in age. FeSO_4 - 0. Odor and taste none. White tomentose at base.

Lamellae narrow, close to crowded, dull white, then cinnamon, edges even.

Spores 7-10 x 4-5 μ , ellipsoid, inequilateral and amygdaliform, wrinkled-rough. Basidia 27-33 x 6-8 μ , 4-spored. Pleurocystidia none; cheilocystidia 32-86 x 5-11 μ , filamentous, flask-shaped, ventricose-appendiculate, at times knobbed or forked. Gill trama undulating-subparallel. Pileus trama interwoven. Cuticle bearing short erect hyphae, or long hyphae, 2.5-5 μ broad, forming a turf. Clamp connections present, scarce.

Repidotus subverrucisporus Pilát
(Sm-66383)



Ch. x 1000
(longest ones after tramal)

CREPIDOTUS Sm-66629

On aspen, Lake Ann, Huron Mts., Mich., June 17, 1963.

Pileus 3-9 mm, conchate to fan-shaped, surface grayish-white and dry from appressed fibrils, margin incurved and downy. Odor none. FeSO_4 - 0.

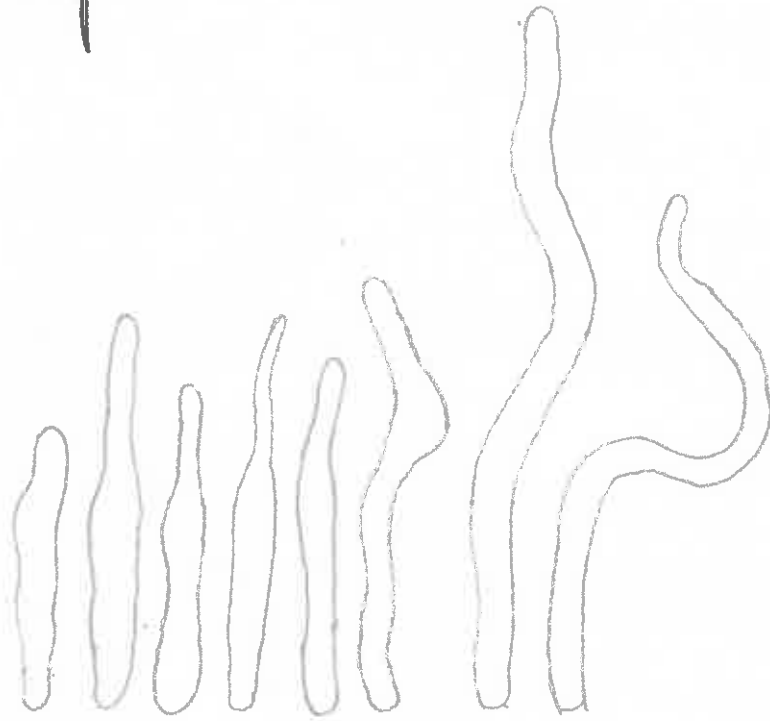
Lamellae broad, subdistant or nearly distant, white then near Verona brown.

Pseudostipe none.

(6)
Spores 7-9 x 4.5-5.5 μ , ellipsoid, inequilateral in profile, punctate. Basidia 25-32 x 5-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 36-90 x 5-6 μ , filamentous or subventricose^{slightly} cylindric with a neck, at times crooked. Gill trama subparallel, hyphae 3-6 μ broad. Pileus trama interwoven. Cuticle of repent hyphae bearing a turf of colorless hyphae, those on the margin pilocystidioid and often crooked, 2.5-6 μ broad. Clamp connections present.

Cf. C. subtilis P. D. Orton, TBM 5 43:2:221. 1960.

Pepidatus Sm-66629



Ch - x 1000

Sm-66901

CREPIDOTUS ALNICOLA Sp. nov.

PHOTO

On Alnus incana, Burt Lake, Mich., July 24, 1963.

Pileus 1-2 cm broad, unguulate to dimidiate, surface appearing dry and appressed fibrillose to matted-fibrillose, snow white, margin incurved and slightly fimbriate, Context thick and rubbery-cartilaginous, white to watery white, odor and taste none. FeSO_4 and KOH both negative.

Lamellae broad, close to subdistant, attached at base, pure white becoming pinkish cinnamon or darker, the edges white fimbriate.

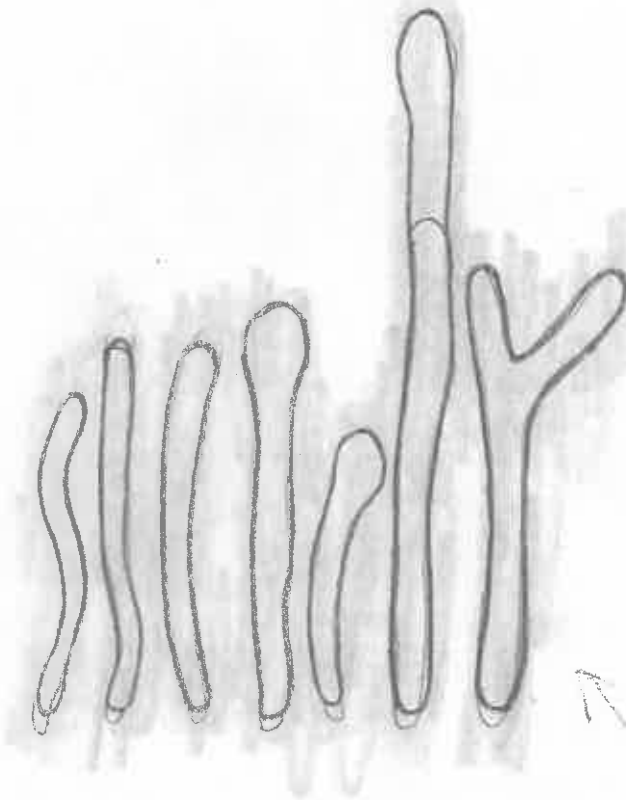
Spores (6) 7-9 x (3.5) 4-5.5 μ , ellipsoid, slightly \nwarrow inequilateral in profile, obscurely punctate, ochraceous in 2% KOH, near "cinnamon" in deposit. Basidia 34-48 x (5) 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 38-200 x 3-9 μ , filamentous, numerous, the apex often enlarged or distinctly capitate, more rarely forked, ^{*the longer ones framel and somewhat gelatinous.*} Gill trama subparallel, hyphae 5-9 μ broad. Subhymenium gelatinous. Pileus trama interwoven. Cuticle a gelatinous zone, 175-350 μ thick, bearing a turf of slender (3-7 μ), colorless, more or less flexuous, septate hyphae. Clamp connections present.

Except for its rough spores, this is related to

C. betulae Murr. ~~It is close to, if not identical with Sm-20348~~

Grepidotus alnicola
(Sm-66901)

Grepidotellae
(Rypha straight)



Ch - x 1000

200 x 6



CREPIDOTUS Sm-66905

PHOTO

(Same as Sm-63640)

On hardwood, Rees' Bog, UMBS, July 24, 1963.

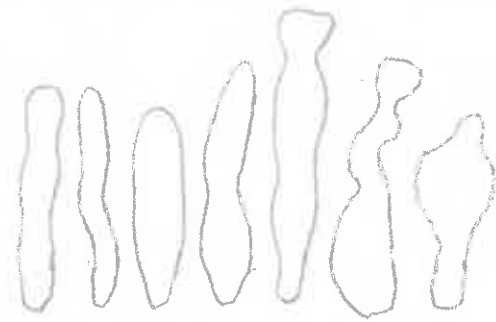
Pileus 8-20 mm broad, unguulate to dimidiate, in dense mosses, surface white cottony byssoid at point of attachment, margin glabrous, watery white and translucent-striate before fading, soon pale cinnamon from spore dust. Context white and delicate odor and taste mild FeSO_4 and KOH both - 0.

Lamellae white, broad, close, attached around a pseudostipe, edges even.

Pseudostipe 0.5 mm wide and hyaline white. Pleurocysts none.

Spores ~~7-9 x 4-4.5 μ~~ ^{7-9 x 4-4.5 μ} ellipsoid, slightly inequilateral, obscurely punctate. Basidia 23-28 x 6-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 25-38 x 3-10 (11) μ , cylindric, subclavate, bottle-shaped, often constricted, apices rounded, obtuse, or tapering. Gill trama undulating subparallel or slightly interwoven, hyphae 3-7 μ broad. Pileus trama ~~stratose, at times obscurely, the upper third loosely interwoven, the lower two thirds densely so, the surface bearing more or less~~ ^{interwoven.} a turf of colorless hyphae, 3-5 μ broad. Clamp connections present.

Orepidotus Sm-6695



Ch - x 1000

CREPIDOTUS ALNICOLA sp. nov.

(Sm-66979)

(Same as Sm-66901)

On alder, north of Atlanta, Mich., July 31, 1963.

Spores (5.5) 7-9 x 4-5 μ , ellipsoid, slightly inequilateral, obscurely punctate. Cheilocystidia filamentous, apex more or less subcapitate, 75 μ or more (up to 200 μ) in length. Cuticle a gelatinous zone, as in 66901.

Crepidotella

submollis

CREPIDOTUS Sm-66982

PHOTO

On aspen, Atlanta, Mich., July 31, 1963.

~~(Same as Sm 50944)~~

Pileus 10-17 mm broad, ungulate becoming fan-shaped, with an eccentric pseudo-stipe when very young, surface dry and white, attached by a strigose base and surface merely thinly fibrillose in age, becoming watery pale pinkish-buff and margin then wavy to lobed. Context firm, pallid, odor and taste none, FeSO_4 - 0 and KOH - 0.

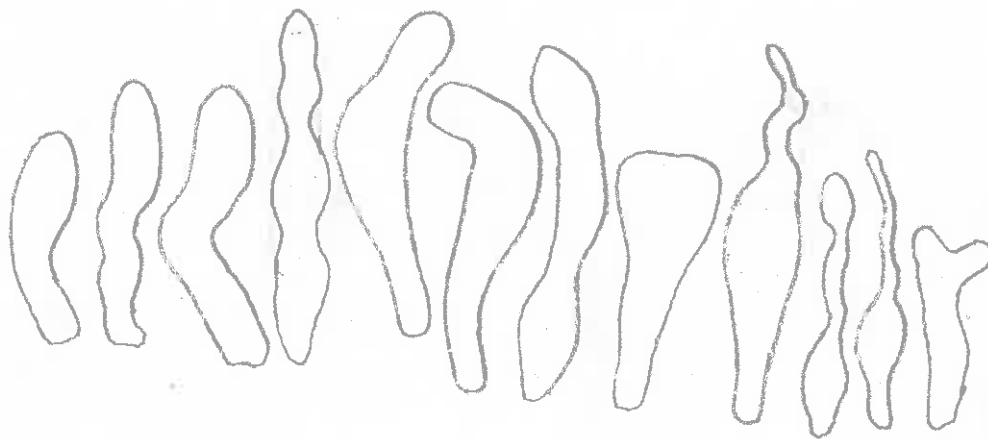
Lamellae broad, close, attached at sessile point of cap or around the pseudostipe, white, becoming cinnamon, edges even to undulating.

Stipe, pseudostipe present at first.

Spores ^{7.5-9.5 x 4-5 μ ,} ~~7.5-9.5 x 4-5 μ ,~~ ellipsoid to ovoid, punctate.

Basidia 20-27 x 5-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 27-48 x 6-13 μ , clavate, cylindric, ventricose, often slightly flexuous or constricted, at times slightly crooked, more rarely the apices slightly forked or with a slender neck. Gill trama interwoven, hyphae 3-7 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a tangled turf of colorless hyphae, 3-6 μ broad. Clamp connections present.

Orepidotus Sm. 66982



ch - x 1000

subverruciformis
var. roseifolia
CREPIDOTUS Sm-66984

Crepidotella
PHOTO

On hardwood, Atlanta, Mich., July 31, 1963.

~~(Same as Sm 66982 and 50944)~~

Pileus 1-4.5 cm broad, thin and fan-shaped from the first, margin incurved and in age spreading and lobed, surface dry, white and cottony fibrillose over all but more densely so at base (no strigose hairs present), color in age dingy buff to dingy cinnamon over margin. Context thin, pliant, odor and taste none, FeSO_4 - 0; KOH - 0.

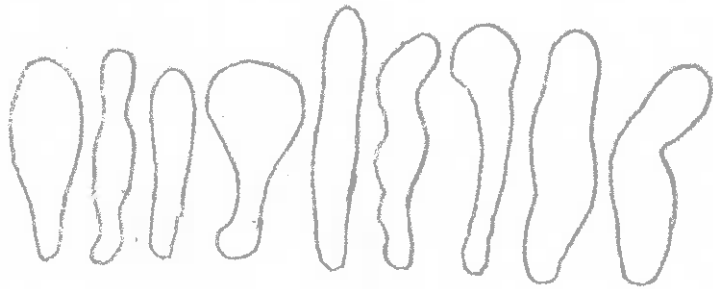
Lamellae white becoming pinkish cinnamon, narrow but becoming broader near attachment, edges even or nearly so.

Stipe a pseudostipe present until near maturity.

Spores ^{7-9.5 x 4.5-5.5} ~~7-9.5 x 4.5-5.5~~ *wrinkled-verrucose* ~~7-9.5 x 4.5-5.5~~ μ , ellipsoid, slightly inequilateral, ~~Basidia~~ Basidia 26-30 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 25-33 x 5-10 μ , clavate, subventricose, apices rounded, at times subcapitate. Gill trama slightly interwoven, hyphae 4-8 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 2-4 μ broad. Clamp connections present.

~~The spores in this are slightly longer and the pileus ranges larger than in 66984~~

Oreodotus Sm. 66984



Ch. x 1000

CREPIDOTUS Sm-67202

On Tilia, Mio, Mich., Aug. 14, 1963.

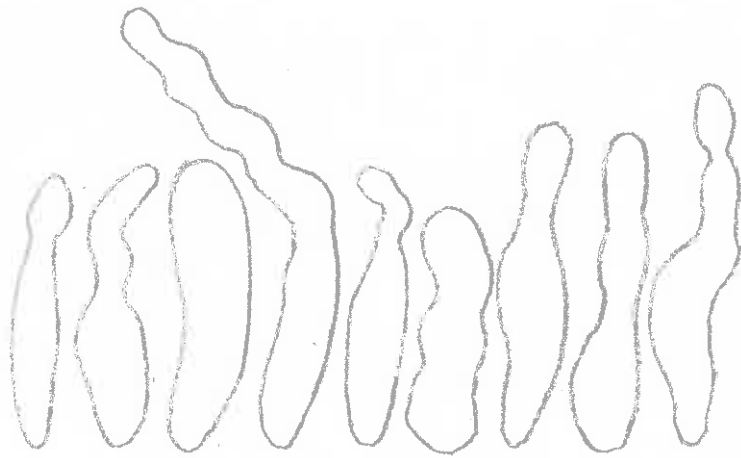
(same as or near Sm-29546)

Pileus 5-15 mm broad, white, pubescent over all, dingy in age.

Lamellae white, narrow, broad in age, nearly subdistant, dull cinnamon when mature.

Spores ^{7.5-9 x 4.5-5.5(6)μ,} ~~6.5-8.5 x 4.5-5.5 μ~~ ellipsoid, more or less inequilateral in profile, punctate. Basidia 23-28 x 5-6 μ, 4-spored. Pleurocystidia none; cheilocystidia 30-62 x 6-10 μ, somewhat variable: fusoid-ventricose, usually with a neck, at times clavate. Gill trama interwoven, hyphae 3-8 μ broad. Pileus trama interwoven. Cuticle repent bearing a turf of tangled, colorless hyphae, 2-5 (6) μ broad. Clamp connections present.

Pepidatus Sm-67202



Ch - x 1000

Crepidotella —

CREPIDOTUS Sm-67374

On Aspen, Agemow Reserve, Mich., Sept. 4, 1963.

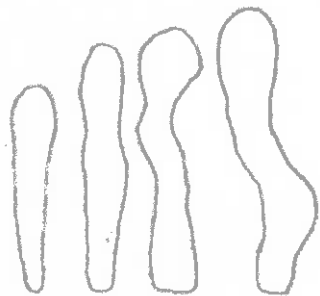
~~Wagoner Sm-497A~~

Pileus white, tomentose. KOH and FeSO_4 - 0.

Lamellae narrow to moderately broad, nearly subdistant, becoming brownish.

Spores ~~WA~~7-9(10) x 3.8-4.5(5.2) μ , ellipsoid, slightly inequilateral in profile, obscurely rough. Pleurocystidia none; cheilocystidia 27-38 x 5-7 μ , clavate, at times subcapitate. Gill trama slightly interwoven, hyphae 3-6 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing, on the central area, a dense, tangled turf of long, colorless hyphae, 2.5-5 μ broad; shorter toward the margin; and the margin with a tuft of slender-cylindric pilocystidia. Clamp connections present.

Orepidotus Sm - 67374



Ch - x 1000

yellowish
CREPIDOTUS Thiers-3489

50880

On dead hardwood branches, Pellston Hills, Mich., leg. Thiers,
July 23, 1956.

4-7 mm broad,

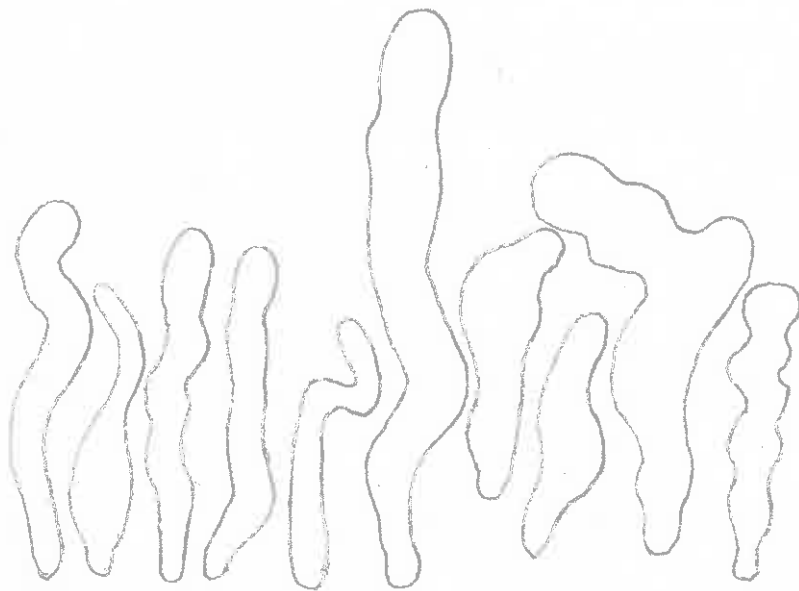
Pileus [^]white, dull, tomentose (villose?).

Lamellae broad, nearly subdistant, edges white-floccose.

Spores 5.5-7.5 (8) x 4-5 μ , ellipsoid, slightly inequilateral in profile, punctate. Basidia 27-32 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 33-71 x 5-12 μ , often cylindric-flexuous, at times constricted, sometimes contorted or crooked. Gill trama undulating-subparallel to interwoven, hyphae 4-6 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, with few to several (more or less erect, slender (2-4 μ), colorless hyphae. Clamp connections present.

Near Beach-9a, Sm-47698, Sm-27698.

Crepidotus Thiers - 3489



Ch - x 1000

CREPIDOTUS Cooke-15646 = 18448

On sticks of Shasta fir, under melting snow, near Horse Camp,
Mount Shasta, 7800 ft., July 29, 1941, leg. Wm. Bridge Cooke.

(Notes from dried material)

Pileus white, conchate, densely covered with a white, long,
woolly tomentum.

Lamellae subdistant, medium broad to broad.

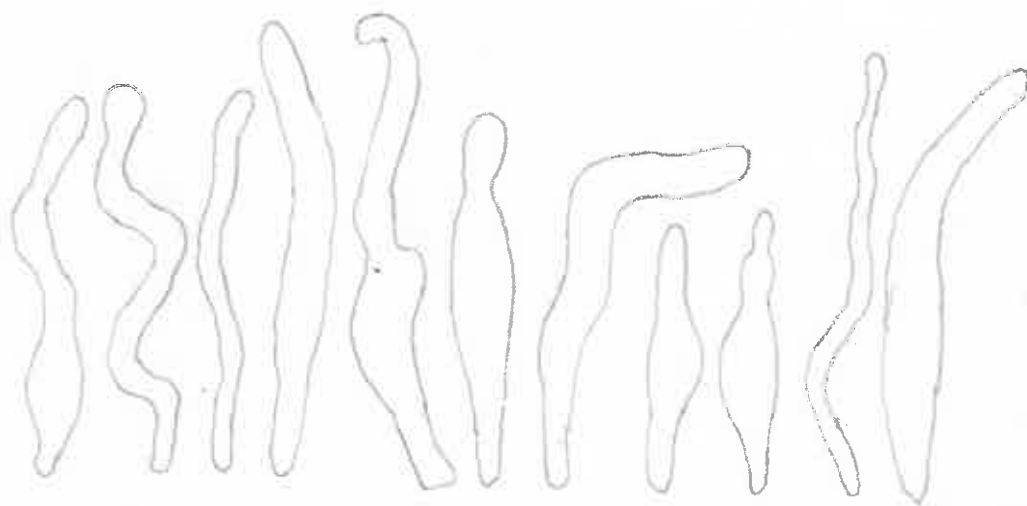
Stipe none.

Spores (5.5) ⁶⁻⁷⁽⁸⁾ ~~5.5~~-8 x 4.5-5.5 μ , ellipsoid, inequilateral in
profile, at times ovoid, punctate. Basidia 34-43 x 7-8 μ ,
4-spored. Pleurocystidia none; cheilocystidia 36-65 x 3-8 μ ,
filamentous, ventricose, bottle-shaped, at times capitate, often
flexuous or contorted. Gill trama undulating subparallel, hyphae
5-7 μ . Pileus trama interwoven, lactifers abundant. Cuticle
of repent hyphae bearing very long, slender (500-1400 x 2-3 μ),
colorless hyphae, non-incrusted. Clamp connections present.

The woolly tomentose pileus and the large basidia and are
characteristic.

Smith says see Cooke-18448 (specimens and notes).

Orepidotus Coate - ¹⁵⁶⁴⁶~~16646~~



Oh - x 1000

Crepidotus Cooke 18448

Q 34451

Pileus 10-20 mm broad, resupinate at first, becoming reniform to fan-shaped in outline and curving away from the substratum near the margin, whitish, becoming brownish as spores mature, surface dry and covered by fibrils, margin incurved and fringed at times. Lamellae broad, close to subdistant, radiating from a point, dull tawny at maturity, margin denticulate and pallid. Stipe none.

Spores $7-9 \times 5-6 \mu$, ellipsoid, pale bister in iodine, dull rusty brown to bister in KOH, wall very slightly thickened and many spores collapsing in chloral hydrate, appearing smooth under high dry but under oil minutely punctate (fine pores through wall and faint spots on surface).

Basidia 4-spored, $28-33 \times 6-7 \mu$, many with numerous refractive granules, dingy brownish (\pm bister) in sections of hymenium. Pleurocystidia none. Cheilocystidia $4.5-35 \times 4-10 \times 4-5 \mu$, filamentous to fusoid ventricose but mostly irregular to contorted as to outline, apices subcapitate to acute, thin-walled, hyaline in KOH, smooth.

Gill trama parallel, hyaline to dingy yellowish in KOH, subhymenium parallel. Pileus trama of floccose-interwoven hyphae yellowish-hyaline in KOH, homogeneous beneath a tangled mass of narrow ($2-3.5 \mu$) hyphae with slightly thickened walls as a turf, the hyphae smooth and hyaline or nearly so in KOH; clamps present.

Habit, habitat and distribution. On bark of a tree, Mt. Shasta, Calif., Wm. B. Cooke 18448.

Observations. Because of the lack of data on fresh material this species will remain based on microscopic characters for the present. The very minutely punctate ellipsoid spores which are more bister (dingier) than in other Crepidoti, the flexuous to contorted cheilocystidia, and the long narrow hairs on the pileus which

lack incrustations but have somewhat thickened walls are distinctive.

Cooke 15646, Mt. Shasta, 7-29-41, was sessile on sticks of Shasta fir under melting snow, 7800 ft. elevation. This is close if not identical to Cooke 18448 but in the cap trama just below the cuticular zone there occurs a thin layer of hyphae ochraceous in KOH from incrusting and wall pigments. The hyphae below and above this are hyaline. Good sections are needed to demonstrate this feature, but it is very characteristic. In addition these carpophores are tougher than those of 18448. Check the latter again in relation to coll. 15646.

CREPIDOTUS LANUGINOSUS sp. nov.

(Cooke-18448)

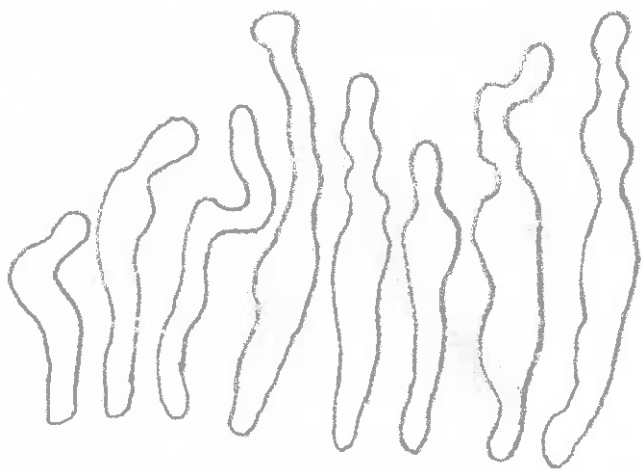
(This is the same as Cooke-15646, from Mt. Shasta, July 29, 1941; see notes there also.)

Spores 5.5-7(8) x 4.5-5.5 μ , ellipsoid, obscurely punctate. Basidia 26-32 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 26-60 x 4-9 μ , cylindric, ^{often \pm contorted.} ventricose or bottle-shaped with a slender neck, Gill trama subparallel. Pileus trama interwoven. Cuticle of repent hyphae which are fuscous or brownish, non-incrusted, bearing a turf of long, colorless hyphae. Clamp connections present.

In his notes, Smith says of Cooke-15646 that in the cap trama, just below the cuticular zone there occurs a thin layer of hyphae which are ochraceous on KOH from incrusting and wall pigments.

In Cooke-15646, and Cooke-18448 and Sm-44687, these brownish hyphae occur in or just below the cuticular zone.

Pepidotus lanuginosus sp. nov.
(Cooke - 18448)



Ch - x 1000

villous
CREPIDOTUS Sm-35821

On conifer debris, North Fork, French Creek, Medicine
Bow Mts., Wyo., leg. A.H.S., Aug. 15, 1950.

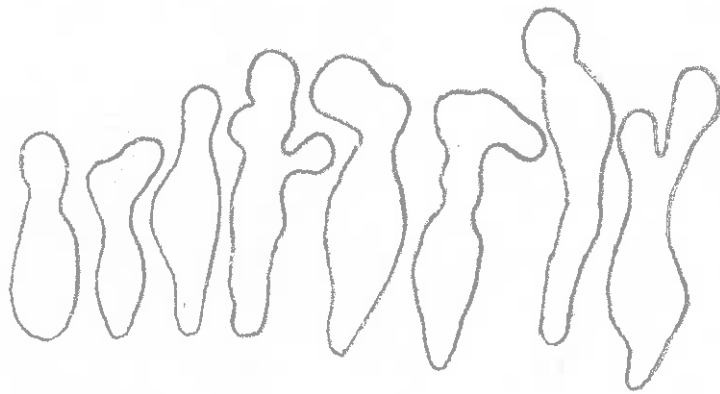
Pileus 10-30 mm. broad, resupinate if on the lower surface
of a branch, fan-shaped when on the side, white, unpolished,
pinkish buff when dried, white mycelioid around the base.

Lamellae radiating, close, moderately broad, white,
becoming pale clay color.

Stipe none.

Spores 6-8 ~~8-11~~ x 4.5-5 (5.5) μ , often slightly drop-
shaped or ovate in face view, or ellipsoid, punctate to minutely
echinulate, dingy ochraceous in 2% KOH. Basidia 21-27 x 6-7 μ ,
4-spored. Pleurocystidia none; cheilocystidia 25-⁴⁵~~40~~ x 6-11 μ ,
flask-shaped, ventricose, clavate, apices of knobbed, forked or
contorted, at times more or less branched. Gill trama subparallel,
hyphae 5-12 μ broad. Pileus trama densely interwoven. Cuticle a
brown, interwoven, repent zone, 40-50 μ broad; the basal portion
bearing colorless, more or less erect, slender (2-3.5 μ broad)
hyphae--trichodermium. Clamp connections present.

Grepidotus Sm-35821



Ch - x 1000

CREPIDOTUS Sm-44687

On conifer sticks, Brundage Mt., Valley Co., Idaho, July 6, 1954.

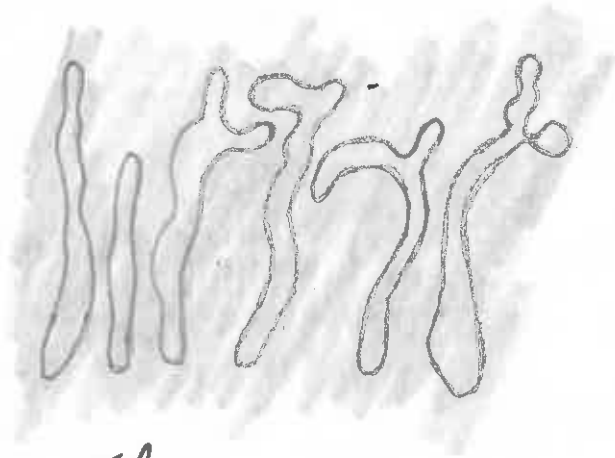
Pileus 5-15 mm. broad, white, ~~and~~ ^{or woolly,} white-tomentose [^] margin incurved, pulvinate. Taste mild.

Lamellae very broad, subdistant, white, soon pale ochraceous, finally darker yellowish-brown.

Stipe none.

Spores ^{(8) 5.5} 5.5-7.5 ~~(8)~~ x 4-~~5~~ ^{5.5} μ , ellipsoid, only slightly inequilateral in profile, obscurely punctate, brown. Basidia 24-28 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 27-46 x 3-7 μ , filamentous to cylindric, of forked, flexuous, or slightly contorted. Gill trama slightly interwoven, Hyphae 4-10 μ broad. Pileus trama interwoven. Cuticle of repent hyphae bearing a dense turf of long, slender (2-2.5 μ) hyphae, which are straight. Clamp connections present, small.

Pseudotus Sm - 44687



Ch - x 1000

villosus
GREPIDOTUS Sm-47698

On alder twigs, Longmire, Wash., Sept. 17, 1954.

Pileus 4-12 mm. broad, resupinate at first, in age the edges curled away from the substratum, occasionally somewhat conchate, white, fibrillose, dry.

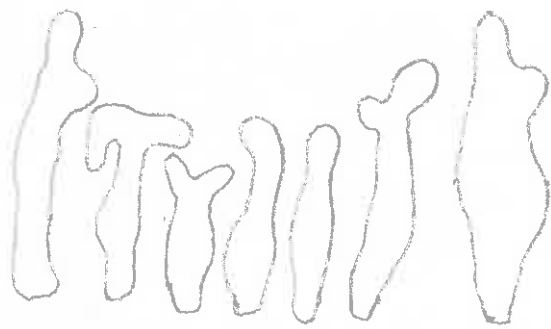
Lamellae white, becoming pale tan, broad, subdistant, radiating from a point.

Stipe none.

Spores 5.5-7 x 4.5-5.5 μ , broadly ellipsoid, not inequilateral, minutely punctate, pale cinnamon in 2% KOH. Basidia (15) 18-24 x 6-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 20-⁴⁰~~38~~ x 5-¹²~~8~~ μ (Hesler), 25-35 x 8-12 μ (Smith), ventricose, clavate, often forked, knobbed, or contorted, some subcapitate. Gill trama interwoven, hyphae 4-6 μ broad. Pileus trama interwoven. Cuticle not differentiated, the surface bearing a turf of colorless hyphae, 2.5-5 μ broad. Clamp connections present.

Near Beach 9a.

Crepidotus Sm - 47698



Ch - x 1000

villosus
CREPIDOTUS Sm-50880

On aspen log, Pellston Hills, Oct. 7, 1955.

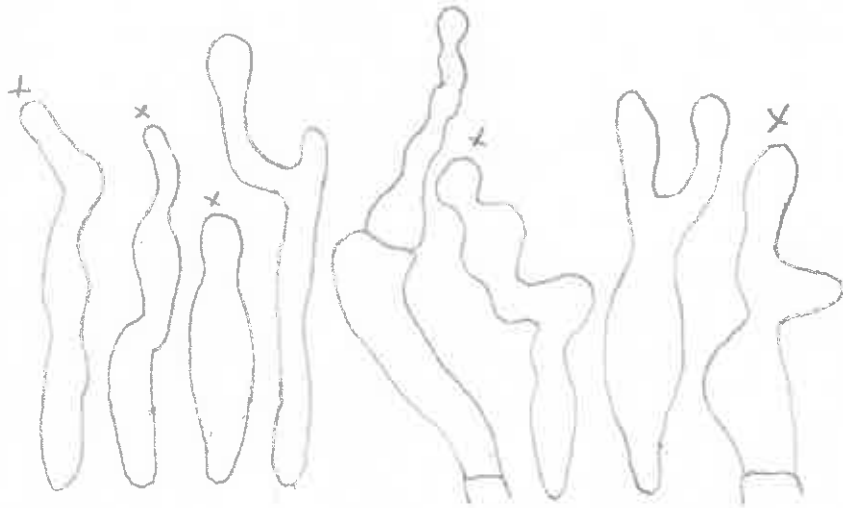
7-12 mm broad,
Pileus [^]white, villose, ~~minutely~~

Lamellae subdistant or nearly so, medium broad.

^{7.5(8)}
Spores ~~6.5-7~~ x 4.5-5.5 μ , ellipsoid, inequilateral in profile, obscurely punctate. Basidia 28-35 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 36-60 x 5-10 μ , filamentous, ventricose, at times subcapitate, contorted, crooked, occasionally forked. Gill trama slightly interwoven, hyphae 6-10 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 3-5 μ broad, or in the absence of a turf some scattered hyphoid pilocystidia, 20-70 x 2-4 μ . Clamp connections present.

Smith says "Card 50875," but the latter ^{is} ~~may be~~ different;
cf. the ch.

Orepidotus Sm-50880



Ch - x 1000

CREPIDOTUS ^{villosum} Sm-50944

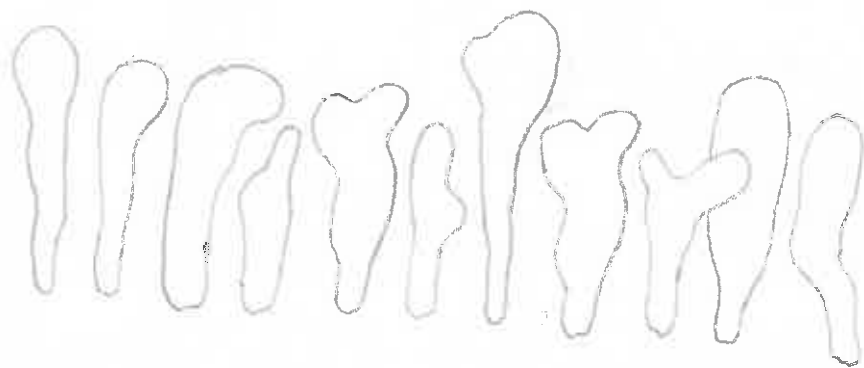
On aspen, Mud Lake, Oct. 9, 1955.

Spores 6.5-7.5 ~~7.5-8.5~~ x 4.5-5 μ , ellipsoid, slightly or not at all inequilateral, punctate. Basidia 26-33 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 24-41 x 5-¹⁰~~10~~ μ , clavate, often capitate, at times with a neck, occasionally branched or forked. Gill trama interwoven, hyphae 3-6 μ broad. Pileus trama interwoven. Cuticle not sharply differentiated, the surface bearing a turf of tangled, colorless hyphae, 4-7 μ broad. Clamp connections present.

~~Cf. Sm-50938 (see Smith full notes on this!)~~
~~= subaeolis~~

Pileus 5-14 mm broad, white, villose.
Lamellae close, broad or nearly so.

Grepidotus Sm - 50944



Ch - x 1000

reclusus
Crepidotus Sm-54015

(Near Sm-47698)

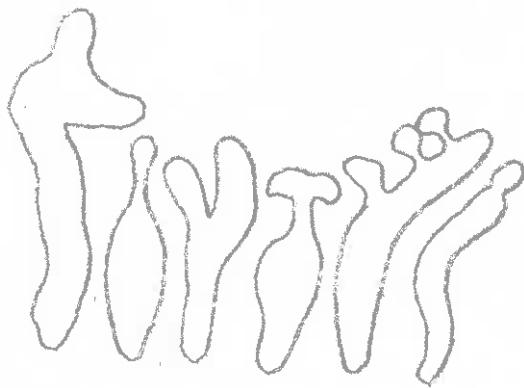
On aspen, Priest Lake, Idaho, leg. AHS, Oct. 4, 1956.

Pileus white, pubescent, opaque.

Lamellae tinged cinnamon in artificial light.

Spores (5.5) 6-7 x 4.5-5 (5.5) μ , short-ellipsoid in face view, inequilateral in profile, echinulate to punctate, wall double, brownish. Basidia 22-27 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 26-45 x ⁴8-9 μ ~~x 1-2 x 3-4 μ~~ , cylindric, ventricose, subclavate, at times appendiculate-capitate, apices often contorted, branched, or forked. Gill trama interwoven, hyphae 4-8 μ broad. Pileus trama interwoven, closely resembling the gill trama. Cuticle a tangled turf (trichodermium) of colorless, non-incrusted hyphae, 4-6 μ broad, the zone 200-300 μ thick. Clamp connections present on the epicuticular hyphae.

Orepidotus Sm - 54015



Ch - x 1000

villous
CREPIDOTUS Sm-54762

(cf. ~~Sm-54061, 55005, 55006, and 56652~~)

On balsam, Granit Creek, Nordman, Idaho, leg. A.H.S., Oct. 15, 1956.

not really

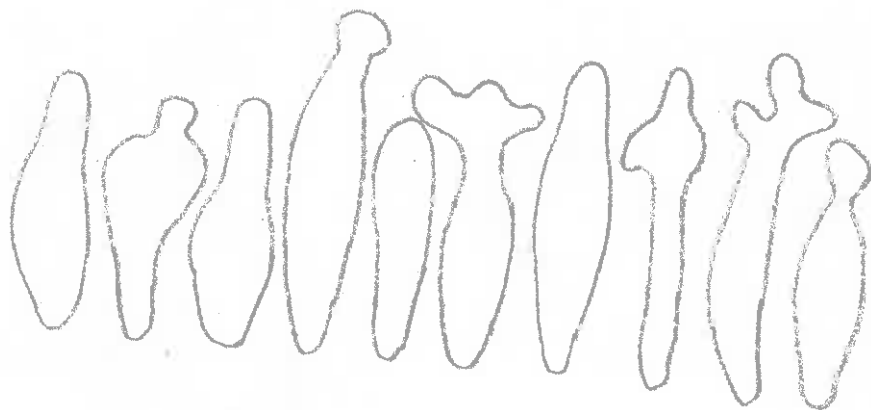
Pileus white, pubescent; taste mild; very soft.

Lamellae white at first, then pinkish, medium broad, subdistant.

Spores 6-7.5 ~~10~~ x 4.5-5 (5.5) μ , ellipsoid, inequilateral in profile, punctate. Basidia 20-26 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 32-~~45~~⁴⁵ x ~~4-11~~⁷⁻¹³ μ , ventricose, clavate, apices often capitate to forked, knobbed, or contorted. Gill trama subparallel to slightly interwoven, hyphae 6-10 μ broad. Pileus trama interwoven. Cuticle a broad tangle of colorless hyphae, 3-5 μ broad. Clamp connections present.

All except Sm-55006, which is on Populus, are on conifer.

Grepidotus Sm-54762



Ch. x 1000

vellosus
CREPIDOTUS Sm-54826

= 54762

On balsam, Priest Lake, Idaho, Oct. 16, 1956.

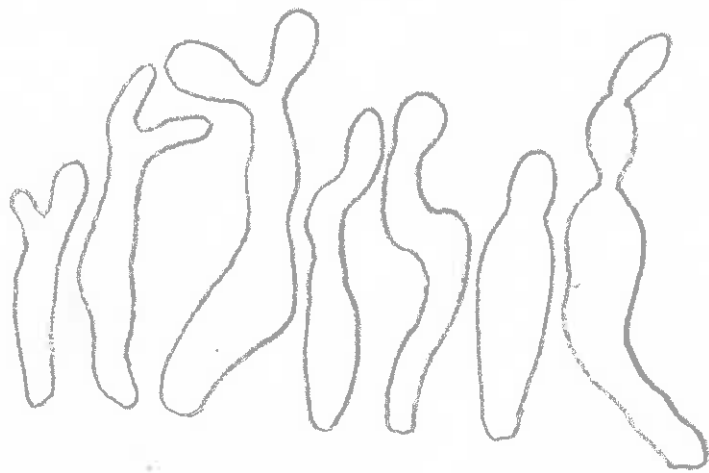
8-14 mm broad

Pileus [^]white, fibrillose.

Lamellae pinkish cinnamon, narrow to medium broad, nearly subdistant.

Spores 5.5-7 (8) x 4.5-5.5 μ , broadly ellipsoid, equilateral, punctate. Basidia 20-25 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 33-⁶⁶~~60~~ x 5-12 μ , ventricose, filamentous, or clavate, often branched and contorted. Gill trama interwoven, hyphae 5-10 μ broad. Pileus trama densely interwoven below, loosely interwoven above, the surface bearing a very loosely tangled turf, the hyphae 2.5-5 μ broad, cuticle not sharply differentiated. Clamp connections present.

Pepidotus Sm-54826



Ch - x 1000

CREPIDOTUS Sm-54988

On hemlock, Priest Lake, Idaho, Oct. 18, 1956.

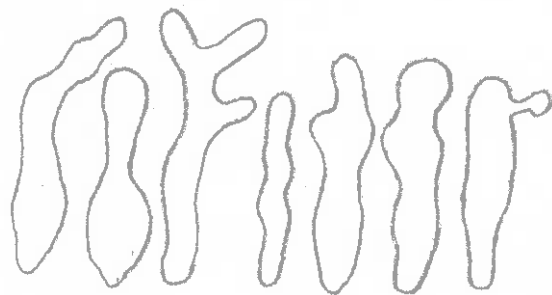
Pileus white, pubescent.

Lamellae more or less vinaceous, medium broad, nearly subdistant.

Spores 5.5-7.5 (8) x 4-5.5 (6) μ , broadly ellipsoid, equilateral, punctate to echinulate. Basidia 20-26 x 6-7 μ , 4(-2)-spored. Pleurocystidia none; cheilocystidia 26-35 x 3-9 μ , filamentous, flask-shaped, clavate, at times forked or branched, occasionally constricted. Gill trama interwoven, hyphae 6-12 (17) μ broad. Pileus trama loosely interwoven. Cuticle composed of 4-6 layers of repent hyphae, bearing more or less erect, numerous or scattered, colorless hyphae, 2-3 μ broad. Clamp connections present, small.

Same as Sm-56652.

Aepidotus Sm-54988



Ch - x 1000

yellow
CREPIDOTUS Sm-56630

On spruce, Big Lagoon Park, Humboldt Co., Calif., leg. A.H.S.,
Dec. 13, 1956.

Pileus white, fluffy, dry.

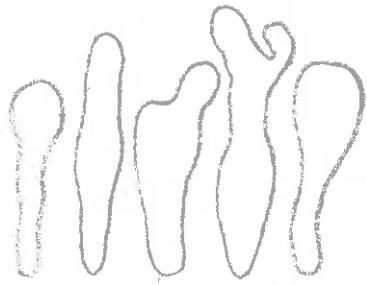
Lamellae white, "light pinkish cinnamon," broad, *substant*.

Stipe none.

Spores (5.5) ⁷⁵⁽⁸⁾6-8 x 5-6 μ , ellipsoid, more rarely
inequilateral in profile, prominently ^{long-}echinulate. Basidia
25-34 x 6-8 μ , 2(rarely 4)-spored. Pleurocystidia none;
cheilocystidia 24-34 x 6-9 μ , clavate to ventricose, apices
rounded or obtuse, occasionally forked or contorted. Gill
trama subparallel, hyphae 5-10 μ broad. Pileus trama interwoven.
Cuticle a tangled trichodermium, hyphae 2-4 μ broad. Clamp
connections small and obscure.

Smith suggests that this may be same as Cooke-18448,
but he says the spores of the latter are minutely punctate;
in Sm-56630, the ornamentation is composed of unusually long
echinulations.

Orepidotus Sm - 56630



Ch - x 1000

submollis
CREPIDOTUS Sm-63528 *ample*

On hardwood sticks, Cross Village, Mich., July 18, 1961.

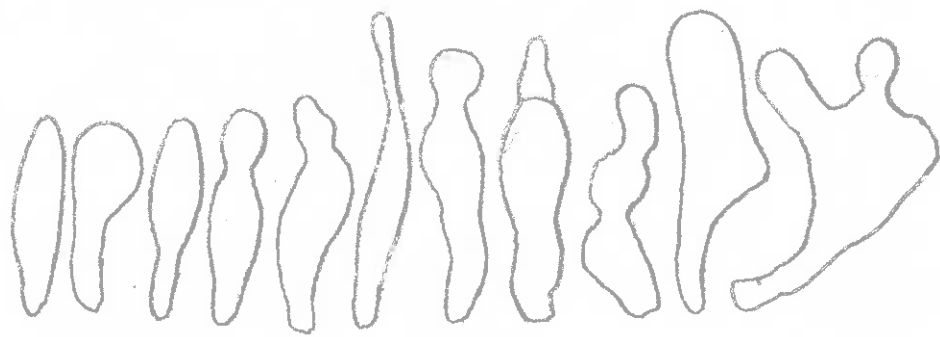
Pileus white, villose.

Lamellae close, narrow to medium broad.

6-8.5 ~~Spores 6-8 x 4.3-5.5~~ *4.3-5.5*
Spores ~~6-8 x 4.3-5.5~~ *4.3-5.5* μ , ellipsoid, inequilateral in profile, punctate. Basidia 28-32 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 27-42 x 5-10 (17) μ , versiform: clavate, ventricose, often capitate, at times contorted and knobbed. Gill trama interwoven, hyphae 4-8 μ broad. Pileus trama interwoven. Cuticle not differentiated, the surface bearing a tangled turf of colorless, more or less straight hyphae, 2-3 μ broad. Clamp connections present.

Same as Sm-63531.

~~Notus~~ Sm-63528
"Crepidotus"



ch - x 1000

P. white - Sp straight II

Ch regular

Sp 5.5-8

vulgaris
CREPIDOTUS Thiers-2881

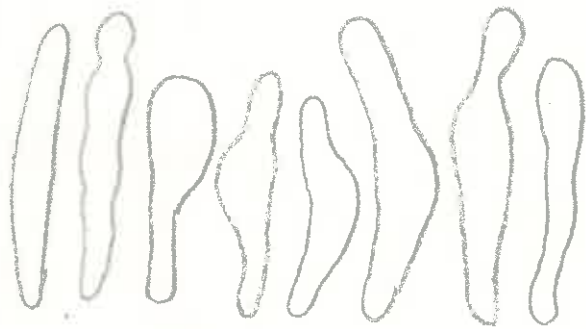
On hardwood log, Pellston Hills, Mich., leg. H. D. Thiers,
July 2, 1956.

Pileus white, fleshy, glabrous to subtomentose. Odor and
taste not distinctive.

Lamellae subdistant, medium broad.

Spores ~~5.5-7.5 x 4.3-5.5~~ ^{5.5-7.5 x 4.3-5.5} μ , ellipsoid, inequilateral in profile,
punctate. Basidia 22-27 x 6-7 μ , 2-4-spored, 2-spored basidia
with stout sterigmata. Pleurocystidia none; cheilocystidia
30-40 x 6-9 μ , clavate, ventricose, at times subcylindric-
constricted. Gill trama more or less interwoven, hyphae 5-10 μ
broad. Pileus trama interwoven. Cuticle of repent hyphae, bear-
ing a turf of colorless hyphae, 2.5-5 μ broad. Clamp connections
present.

Grepidotus Piers - 2881



Ch - x 1000

Hardwood

CREPIDOTUS *pulgarito* Thiers-3350 near Sm-63557 66951

On log, mixed woods, Bois Blanc Island, leg. Thiers, July 17, 1956.

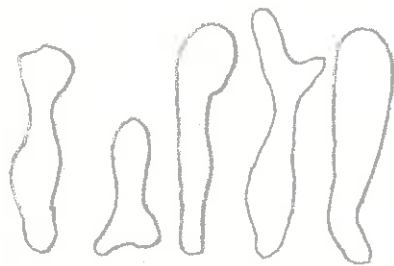
Pileus white, tomentose to villose. Context thin.

Lamellae medium broad, nearly subdistant.

Spores ~~7.5-8.5 x 4-5~~ ^{5.5-7.5(8) x 4-5} μ , ellipsoid, inequilateral, punctate, pale yellowish-brown in 2% KOH. Basidia 22-26 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 16-32 x 5-7 μ , clavate, bottle-shaped (neck may be ^{rarely} forked), ventricose, at times subcapitate, slightly contorted, not numerous, mostly collapsed against the gill-edge. Gill trama interwoven, hyphae 4-7 μ broad. Pileus trama interwoven and more or less vesiculose. Cuticle of repent hyphae, bearing a turf of colorless hyphae 2-3 μ broad. Clamp connections present.

Smith suggests it is near Sm-50875.

Crepidotus Thiers - 3350



Ch. - x 1000

subphaeriform?
CREPIDOTUS Sm-14612

Spores 5.5-7 x 4-5.5 μ , ellipsoid, minutely but conspicuously echinulate, yellowish-ochraceous in 2% KOH. Basidia 17-24 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 22-50 x 4-9 μ , subcylindric, ventricose-fusoid, at times constricted, apices obtuse or semi-acute and at times forked or even irregularly so. Gill trama subparallel to slightly interwoven, hyphae 4-8 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, with numerous more or less erect and tangled hyphae (4-8 μ broad) which at times form a trichodermium. Clamp connections on the epicuticular hyphae.

The rather broad, distant or subdistant gills and the echinulate spores are distinctive.

It is somewhat related to C. submollis which, however, has larger finely punctate spores, larger basidia, and a sulcate or plicate pileus-margin. It differs from C. variabilis in spore-ornamentation, and in its lack of long (up to 100 μ) tramal cheilocystidia. The spores of C. versutus are too large and are faintly punctate, and it (versutus) lacks clamp connections.

This may be a new species. It may be near to or same as my No. 14198 (which Alex Smith holds).

Crepidotus Sm-14612*sub-phaciform*

Pileus 6-15 mm broad, broadly dimidiate or reniform, almost circular in outline when on underside of branch, surface dry and covered by downy snow-white fibrils, margin incurved at first, in age often lobed; flesh thin, white soft. Lamellae broad, subdistant, adnexed around a tubercle or very short eccentric stipe as seen from below, white, becoming avellaneous, edges even to minutely crenulate. Stipe lacking or rudimentary and seen only on the underside of the cap.

Spores $6-7 \times 5-5.5 \mu$, broadly ellipsoid in face and profile view, minutely echinulate, echinulations projecting into a thin hyaline outer sheath, wall rather thin and readily collapsing in chloral hydrate, dingy pale ochraceous in KOH.

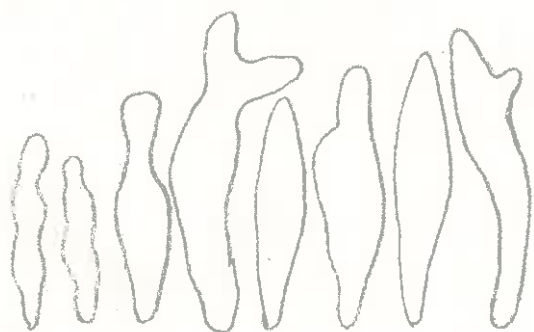
Basidia 4-spored, $17-20 \times 7-8 \mu$, hyaline in KOH. Pleurocystidia none. Cheilocystidia scattered, $18-25 \times 7-10 \mu$, clavate to fusoid-ventricose with obtuse apices, thin-walled, hyaline, smooth.

Gill trama hyaline in KOH, subparallel to interwoven, hyphae $5-10 \mu$ in diam. and not incrustated. Pileus trama floccose, more compactly near gill trama and looser in organization near cap surface which is formed by loosely tangled hyphae and hyphal ends, the hyphae all smooth, thin-walled hyaline, $4-8 \mu$ in diam., and with clamps at the cross walls.

Habit, habitat and distribution. Gregarious on fallen Abies trunk and branches, Sol Duc Hot Springs, Olympic Nat. Park, Wash., June 24, 1939, Sm-14612.

Observations. The ellipsoid spores, conifer habitat and broad subdistant gills are distinctive in the white group. It does not "run down" in Singer.

Crepidotus Sm-14612



Ch - x 1000

vulgaris
CREPIDOTUS Sm-39873

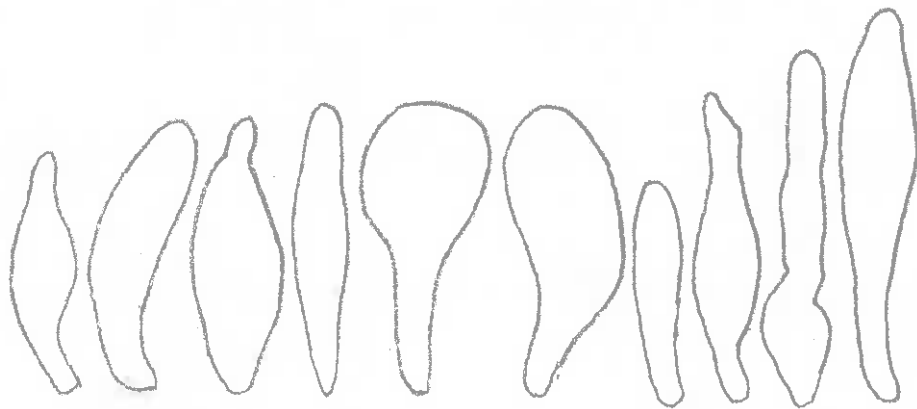
On maple, Lower Tahoma, Mt. Rainer Nat. Park., *Wash.*,
leg. A.H.S., Sept. 14, 1952.

Pileus snow white, pubescent over all, but more strigose
at the base.

Lamellae white at first, becoming dingy ochraceous, *close, medium
x, broad*

Spores ⁶ ~~7~~-8 x 4.5-5.3 μ , ellipsoid, inequilateral in profile,
faintly punctate. Basidia 30-35 x 5-7 μ , 4-spored. Pleuro-
cystidia none; cheilocystidia 28-50 x 5-16 μ , clavate, flask-
shaped, ventricose, apex obtuse, often capitate. Gill trama
subparallel, hyphae 5-8 μ broad. Pileus trama interwoven.
Cuticle a trichodermium of colorless, dense hyphae 5-8 μ broad.
Clamp connections few.

Oreodonta Sm - 39873



ch - x 1000

vulgaris
CREPIDOTUS Sm-49768 = 67284

On hardwood (?), Pellston Hills, Mich., leg. A.H.S., July 18, 1955.

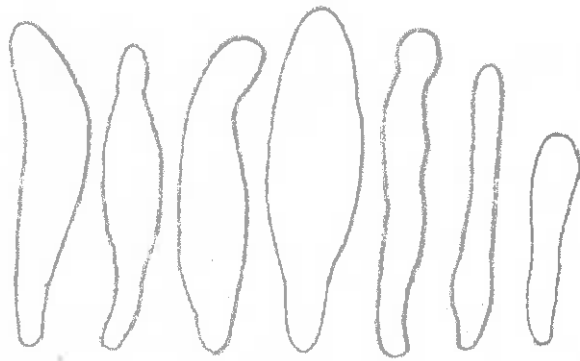
Pileus white, pubescent. Context taste strongly fungoid.

Lamellae pale clay color, *close, broad or medium broad.*

Spores ⁽⁶⁾ 7-8 x 4-5.5 μ , ellipsoid, slightly inequilateral in profile, punctate, ^{*punctate or*} yellowish-brown in 2% KOH. Basidia 22-28 x 5-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 28-45 x 4-11 μ , clavate to cylindric, ventricose, or bottle-shaped. Gill trama subparallel, hyphae 5-11 μ broad. Pileus trama interwoven. Cuticle repent bearing a trichodermium of colorless hyphae. Clamp connections present.

Near *rapinellii* Thüer.; also *amygdalosporus* Lickner

Orepidotus Sm-49768



Ch - x 1000

subsp. novus
CREPIDOTUS Sm-52227

On aspen, Trout Lake, San Juan Mts., Colo., Aug. 15, 1956.

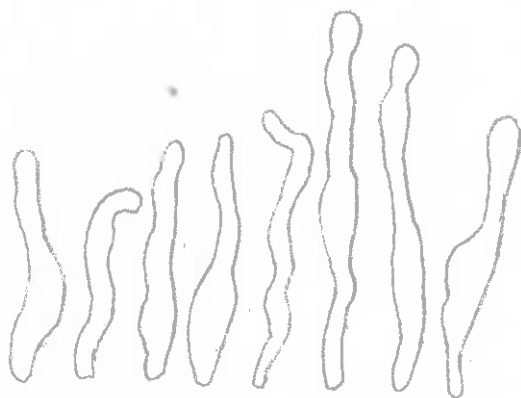
Pileus white, dry, fibrillose.

Lamellae pinkish near maturity, medium broad, nearly subdistant.

Spores ~~6~~⁶-8 x 4.5-5.5 (6) μ , ellipsoid to more or less ovoid, obscurely or not at all inequilateral, wrinkled. Basidia 25-31 x 7-8 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 26-50 x ~~8-10~~³⁻⁶ μ , filamentous or slender-ventricose, often flexuous, more rarely capitate. Gill trama interwoven, hyphae 3-5 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 3-5 μ broad. Clamp connections present.

Smith suggests it is near McK-F106.

Pepidotus Sm - 52227



Ch - x 1000

subglauconigerus
CREPIDOTUS Sm-54061

On conifer ~~bark~~ logs, Nordman, Idaho, Oct 5, 1956

Pileus 6-12 (15) mm. broad, unguulate to dimidiate, surface pure white and densely pubescent to hirsute (with long delicate hairs), margin fimbriate. Context soft, white, odor and taste not distinctive.

Lamellae close, broad, becoming ventricose, white then near "light pinkish cinnamon" attachment around a sterile point at base of cap.

Stipe none.

Spores 5.7-7.2 x 4.3-5.5 μ , broadly ellipsoid, not inequilateral, none subglobose, punctate, brownish in 2% KOH, wall double, medium thick. Basidia 19-24 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 22-35 x 4-10 μ , cylindric-clavate, at times subcapitate, ventricose, occasionally constricted, few. Gill trama interwoven, hyphae 3-6 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, the surface with a strongly developed tangle of trichodermial hyphae, 2-4 μ broad. Clamp connections on the epicuticular hyphae.

Near Cooke-18448, p. 82, which is described as having spores 7-9 x 5-6 μ , parallel gill trama, and contorted cheilocystidia. (Cf. Cooke-15646)

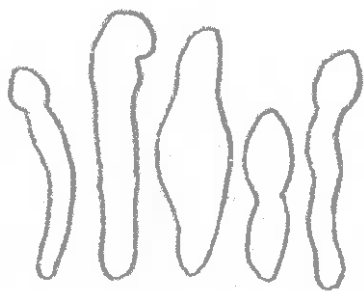
CREPIDOTUS Sm-54061

Spores 5.7-7.2 x 4.3-5.5 μ , broadly ellipsoid, not inequilateral, none subglobose, punctate, brownish in 2% KOH, wall double, medium thick. Basidia 19-24 x 5-6 μ , 4-spored. Pleurocystidia none; cheilocystidia 22-35 x 4-10 μ , cylindric-clavate, at times subcapitate, ventricose, occasionally constricted, few. Gill trama interwoven, hyphae 3-6 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, the surface with a strongly developed tangle of trichodermial hyphae, 2-4 μ broad. Clamp connections on the epicuticular hyphae.

Near Cooke-18448, p. 82, which is described as having spores 7-9 x 5-6 μ , parallel gill trama, and contorted cheilocystidia. (Cf. Cooke-15646)

Grepidotus

Sm. 54061



Ch - x 1000

subphaeoconium
CREPIDOTUS Sm-54338

(near Sm-14612)

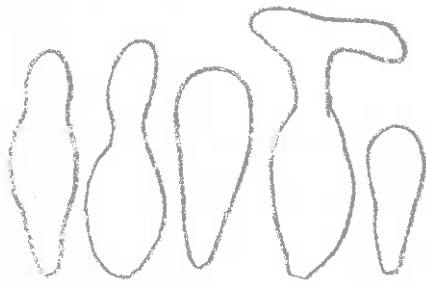
On conifer, Granit Creek, Nordman, Idaho, leg. AHS, Oct. 9, 1956.

Pileus white, *white-silky* ~~waxy~~.

Lamellae pale pinkish, *medium broad, close to subdistant*

Spores 6-7.5 x 4.5-5.5 μ , ellipsoid in face view, slightly inequilateral in profile, punctate. Basidia 20-24 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 29-35 x ~~7-13~~ *7-11* μ , ~~6-10~~ μ , ventricose, cuneiform, apices obtuse, at times contorted to branched. Gill trama interwoven, hyphae 5-10 μ broad. Pileus trama interwoven. Cuticle a trichodermium, the hyphae loosely tangled, slender (2-4 μ broad). Clamp connections present.

Orepidotus Sm-54338



Ch - x 1000

subglaucoflavus
CREPIDOTUS Sm-56652

On dead conifer log, Big Lagoon Park, Humboldt County, Calif., Dec. 14, 1956.

Pileus 1-5 cm. broad, dimidiate, margin incurved, surface white and downy-fibrillose young, becoming glabrous in age (fibrils matted down), tomentose at the point of attachment, margin often splitting and surface rivulose in age. Context soft and white, odor and taste mild.

Lamellae near "vinaceous fawn" mature, pallid young, close, broad, adnexed to a tubercle, edges even.

Stipe present only as a tubercle on underside of cap.

Spores 6-7.5 x 5-5.5 (6) μ , broadly ellipsoid in face view, slight or not inequilateral in profile, echinulate, wall thick, double, brownish in 2% KOH. Basidia 17-20 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 19-32 x 4-9 μ , clavate, ventricose to nine-pin-shaped, rare and inconspicuous. Gill trama slightly interwoven, hyphae 6-10 (12) μ broad. Pileus trama interwoven. Cuticle repent, bearing numerous, colorless, slender (2.5-5 μ), more or less erect, loosely tangled epicuticular hyphae. Clamp connections on the epicuticular hyphae, and on the hyphae of the tomentum at the base.

H
cc. Sm-14198, p. 84, and Sm-18448, p. 82.

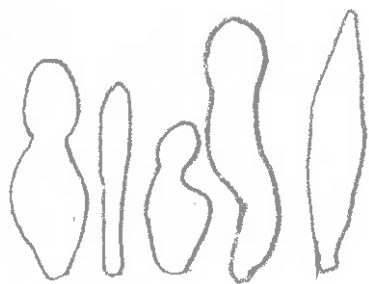
subphaeocephalus
CREPIDOTUS Sm-56652

Spores 6-7.5 x 5-5.5 (6) μ , broadly ellipsoid in face view, slight or not inequilateral in profile, echinulate, wall thick, double, brownish in 2% KOH. Basidia 17-20 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 19-32 x 4-9 μ , clavate, ventricose to nine-pin-shaped, rare and inconspicuous. Gill trama slightly interwoven, hyphae 6-10 (12) μ broad. Pileus trama interwoven. Cuticle repent, bearing numerous, colorless, slender (2.5-5 μ), more or less erect, loosely tangled epicuticular hyphae. Clamp connections on the epicuticular hyphae, and on the hyphae of the tomentum at the base.

Cf. Sm-14198, p. 81, and Sm-18448, p. 82.

Grepidotus

Sm - 56652



Ch - X 1000

= subglabrous
CREPIDOTUS Sm-56709

(near Sm-14612 and 35821)

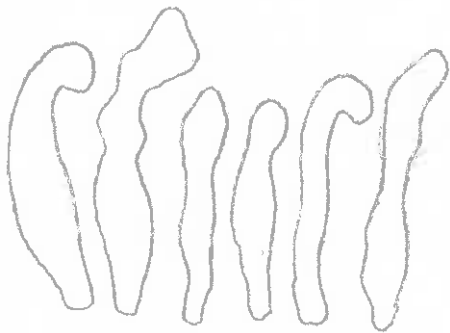
On spruce, Patrick Point, Calif., Dec. 15, 1956, leg. White & Smith.

Pileus white, slightly villose to subglabrous.

Lamellae vinaceous, subdistant, medium broad.

Spores 5.5-7.5 x 5-6 μ , broadly ellipsoid, more rarely subovoid, echinulate. Basidia 20-26 x 6-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 30-42 x 5-7 μ , clavate, ventricose, or cylindric, apices broadened or pointed, often rounded, occasionally forked, at times constricted. Gill trama loosely interwoven, hyphae 5-11 μ broad. Pileus trama loosely interwoven. Cuticle a zone of 4-6 layers of repent, compact hyphae, bearing scattered, more or less erect, slender (2-4 μ broad) hyphae. Clamp connections rare and inconspicuous.

Pepidatus Sm - 56709



Ch - x 1000

→

CREPIDOTUS Sm-56770

On conifer twigs, Big Lagoon Park, Calif., Dec. 17, 1956.

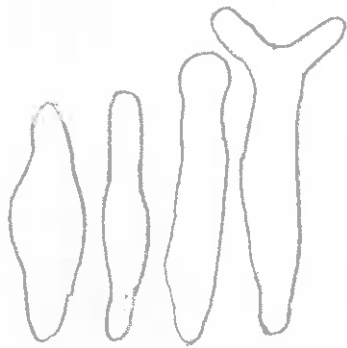
Pileus villose, white.

Lamellae vinaceous, medium broad, close or nearly subdistant.

Spores 5.5-7.5 x 5-6 μ , broadly ellipsoid, obscurely inequilateral, echinulate. Basidia 25-33 x 6-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 31-43 x 6-10 μ , ventricose to subcylindric, more rarely forked. Gill trama loosely interwoven, hyphae 4-10 (15) μ broad. Pileus trama loosely interwoven. Cuticle of 4-6 layers of repent hyphae, bearing a scattered or dense turf of colorless hyphae, 2-4 μ broad. Clamp connections rare and inconspicuous.

Cf. Sm-34451 and Sm-56709.

Prepidotus Sm-56770



Ch - $\times 1000$

vulgaris
CREPIDOTUS Sm-63531

On hardwood, Cross Village, Mich., July 18, 1961.

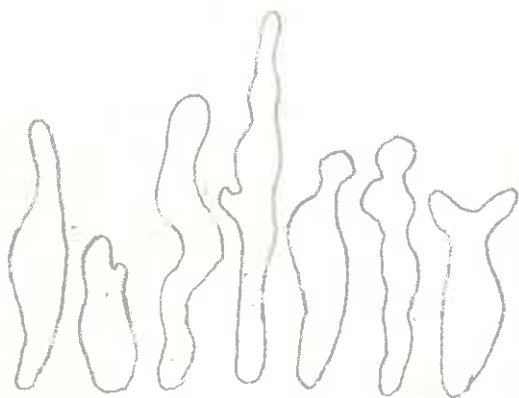
slightly darker (buff) when dried,
Pileus snow white, [^]base byssoid, elsewhere pubescent to villose.

Lamellae moderately close, narrow to medium broad.

Spores 5.5-7.5 x 4-5 μ , ellipsoid, inequilateral in profile, punctate. Basidia 26-35 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 20-50 x ⁵~~4~~-8 μ , ^{*± regular,*} [^]versiform: filamentous, cylindric, clavate and at times capitate, ventricose, apices rounded or at times forked, occasionally constricted. Gill trama interwoven, hyphae 4-7 μ broad. Pileus trama interwoven. Cuticle not differentiated, the surface bearing a tangled turf of colorless, more or less straight hyphae, 2-4 μ broad. Clamp connections present.

Same as Sm-63528.

Orepidotus Sm. 63531



Ch - x 1000

vulgaris = 74.3350
CREPIDOTUS Sm-63557

On hardwood and on moss, Carp Lake Bog, Carp Lake,
Mich. July 13, 1961.

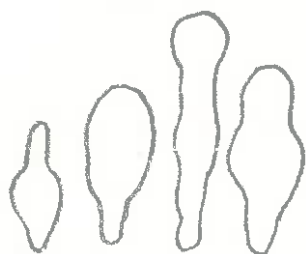
Pileus 6-20 mm. broad, dimidiate to conchate, surface white at first, soon wood brown to dull rusty brown and striate from the gills, base white-pubescent. Context very soft, thin, taste and odor mild.

Lamellae white finally rusty brown, broad, close becoming subdistant, attached at point of attachment of pileus to substratum.

Stipe lacking or a white pubescent tubercle.

Spores 5-6.5 (7) x 4.3-5 μ , ellipsoid to subovoid in front view, slightly inequilateral in profile, punctate, wall double, brownish in 2% KOH. Basidia 19-23 x 5-6 μ . Pleurocystidia none; cheilocystidia 15-30 x 5-9 μ , clavate, subvesiculose, or ventricose, few and inconspicuous. Gill trama interwoven, hyphae 5-10 μ broad. Pileus trama interwoven. Cuticle repent, few, colorless, erect hyphae, or none. Clamp connections on the cuticular hyphae and on the basal pubescence.

Orepidotus Sm - 63557



Ch - x 1000

vulgaris
CREPIDOTUS Sm-63570b

Lyfe

On hardwood sticks, Pellston Hills, Mich., leg. A.H.S., July 21, 1961.

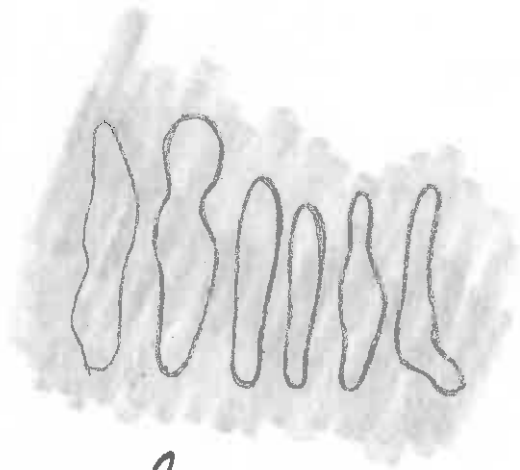
dull white when dried,

Pileus 6-15 mm. broad, fan-shaped, watery white, with white mycelium at the base, margin incurved, becoming irregular and lobed, marginate behind at first, finally sessile on the dorsal side and short-stipitate below. Context taste mild.

Lamellae decurrent on the stipe, dull white, becoming dull cinnamon, narrow, subdistant.

Stipe 1-3 mm. x 0.5 mm., watery white, glabrous, eccentric, *finally ± disappearing.* *6-7.5 x 4-5 μ,*
Spores ~~4.5 x 4.5 μ~~, ellipsoid to pip-shaped, inequilateral in profile, obscurely punctate, wall medium thick, yellowish-brown. Basidia 26-32 x 6-7 μ, 4-spored. Pleurocystidia none; cheilocystidia 23-34 x ~~3-4 x 5-8 μ~~ *4-8 μ*, clavate, at times capitate, or ventricose to irregular. Gill trama subparallel, hyphae 2.5-5 μ broad. Pileus trama interwoven. Cuticle with a dense trichodermium of colorless, non-incrusted hyphae, 3-6 μ broad. Clamp connections present.

Crepidula Sm. 63570b



ch - x 1000

subsp. novus
CREPIDOTUS Sm-63589

On hardwood, Pellston Hills, Mich., July 17, 1961.

(Near Beach-20 and Sm-66951)

Pileus 8-14 mm broad, white, pubescent or villose, margin even. Context moderately thin; odor and taste mild or fungoid.

Lamellae close, narrow to medium broad, clay color.

Spores 5.5-7.5(8) x (4)4.5-5 μ , ellipsoid in face view, slightly inequilateral in profile, obscurely punctate. Pleurocystidia none; cheilocystidia 28-40 x 6-12 μ , clavate or fusoid, at times more or less capitate. Gill trama slightly interwoven, hyphae 5-8 μ broad. Pileus trama interwoven. Cuticle not sharply differentiated, the surface bearing a tangled turf of colorless hyphae, 2.5-4 μ broad. Clamp connections present.

CREPIDOTUS *subsp. nov.* Sm-63590

On basswood, Pellston Hills, July 17, 1961.

(Same as Sm-63589)

Pileus white, very pubescent. Taste mild.

Lamellae clay color.

Spores 6-8 x 4-5.3 μ , ellipsoid, obscurely punctate.

Other characters, see 63589.

Near variabilis but spores too broad.

subphalloporus
CREPIDOTUS Sm-66862

PHOTO

(Same as Sm-5482A)

(not found)

On conifer limb, Rees' Bog, UMBS, leg. Dick Homola, July 22, 1963.

Pileus 8-15 mm, fan-shaped, white, base cottony-mycelioid, glabrous near the incurved margin.

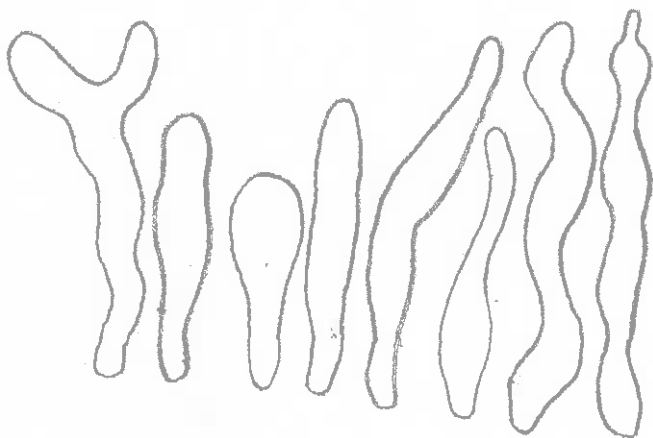
Lamellae pale pinkish cinnamon, close, narrow to moderately broad.

FeSO_4 - 0; KOH Weakly luteus (not significant).

Pseudostipe present, white.

Spore deposit: dingy pale cinnamon. Spores 5.5-7 ($\bar{5}$) x 4.5-5.2 μ , ellipsoid, inequilateral, punctate. Pleurocystidia none; cheilocystidia 28-⁶⁰~~57~~ x 6-11 μ , clavate, subcylindric, bottle-shaped, more rarely forked, crooked, subventricose. Cuticle a turf of colorless hyphae, 2-4 μ broad. Clamps present.

Crepidulus Sm-66862



Ch - x 1000

subflavescens /
CREPIDOTUS Sm-66864

On hardwood, Rees' Bog, UMBS, July 22, 1963.

(Same as Sm-66862, which is on conifer)

Pileus white, 8-20 mm broad, unpolished, not striate.

Lamellae radiating from a lateral (basal) point, pinkish cinnamon.

Spore deposit dull cinnamon. Spores 6-7(8) x 4-5 μ , ellipsoid, more or less inequilateral, punctate. Pleurocystidia none; cheilocystidia 33-50 x 6-10 μ , clavate, subcylindric, ventricose, some crooked, apices more rarely forked. Gill trama undulating subparallel, hyphae 2.5-5 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 2-3.5 μ broad. Clamp connections present.

subsp. novus
CREPIDOTUS Sm-66865a

On hardwood ?, UMBS, July 22, 1963.

(Same as Sm-66864)

Pileus white, opaque. Taste none. KOH - 0.

Lamellae pinkish cinnamon.

Spores 6-7(8) x 4-5 μ , ellipsoid, punctate. Other characters as in Sm-66864.

Crepidotellae
subphaeosporus
CREPIDOTUS Sm-66868

On wood (hardwood?), UMBS, July 22, 1963, leg. Dick Homola.

(Same as Sm-49768)

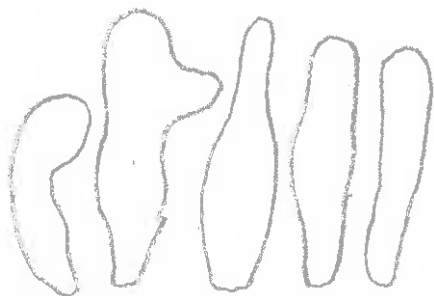
Pileus 6-10 mm broad, fan-shaped, evenly white-frosted, opaque, margin incurved. Context white, delicate; odor and taste none. FeSO_4 - 0; KOH - 0.

Lamellae white then pale pinkish cinnamon, basal area sterile, broad, close.

Stipe none.

Spores 6-8 x 4-5 μ , ellipsoid, ochraceous in 2% KOH, punctate. Basidia 26-31 x 5-6 μ , 4-spored. Pleurocystidia none: cheilocystidia 25-36 x 6-10 (13) μ , clavate, ventricose, apices usually rounded, at times unsymmetrical, rarely knobbed or branched or obliquely rostrate. Gill trama parallel to subparallel, hyphae 4-7 μ broad. Pileus trama loosely interwoven. Cuticle of repent hyphae, bearing a turf of colorless hyphae, 3-6 μ broad. Clamps present.

Grepidotus Sm - 66868



Ch - x 1000

Crepidotella
subophaeriformis
CREPIDOTUS Sm-66871

(Same as Sm-66868; see card)

On aspen, UMBS, July 22, 1963, leg. C. Bas.

Spores ^{5.5-7.5}~~6.5-7.5~~ x 4-4.5 (5) μ , ellipsoid, ochraceous,
punctate. Other characters as in Sm-66868.

P. white

CREPIDOTUS

Crepidotella
subsp. novus
Sm-66875

(Same as Sm-66868; see card)

On hardwood, Colonial Point, Burt Lake, July 12, 1963.

Spores 6-8 x 4-5 μ , ellipsoid, ochraceous, punctate.

Other characters as in Sm-66868.

P. white

Crepidotus subsp. nov. Crepidotellae
CREPIDOTUS Sm-66876

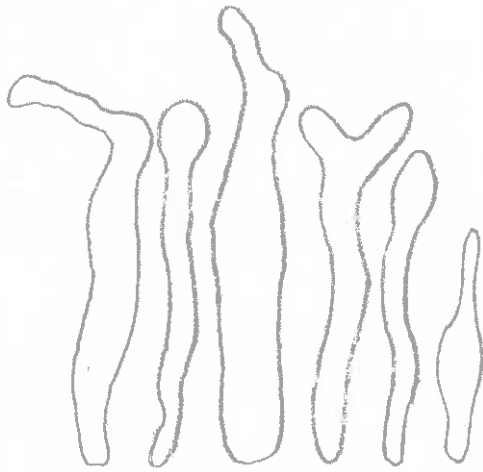
On hardwood, Colonial Point, Burt Lake, Mich., July 22, 1963

(Same as 66868; see card)

Spores 6-8 x 4-5.5 μ , ellipsoid, inequilateral, punctate.
Pleurocystidia none; cheilocystidia versiform: filamentous and
more or less capitate, cylindric-clavate, apices at times tapering
or forked, 31-62 x 5-9 μ . Other characters as in 66868.

P. white

Gepidotus Sm - 66896



Ch - x 1000

Crepidotellae
subphaeosporus
CREPIDOTUS Sm-66916

On birch, Rees' Bog, UMBS, July 24, 1963.

(Same as 49768)

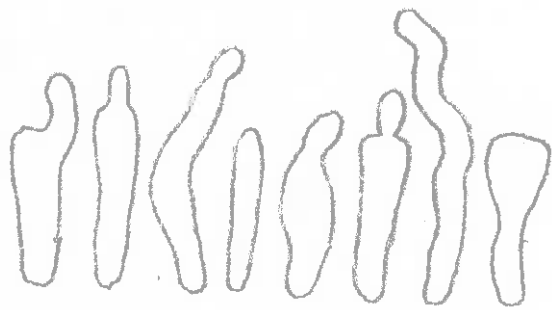
Pileus 5-15 mm broad, snow white, fan-shaped, cottony mycelioid at the base, merely appressed on the margin. KOH: 0 on fuzz.

Lamellae close, broad, white then pale pinkish cinnamon, often leaving a base zone free of gills.

Stipe none.

Spores 6-7.5(8) x 4-5 μ , ellipsoid, punctate. Basidia 23-30 x 6-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 21-40 x 4-8 μ , versiform: cylindric, clavate, at times capitate or with a beak, occasionally crooked. Gill trama slightly interwoven, hyphae 4-7 μ broad. Pileus trama loosely interwoven. Cuticle bearing a turf of straight colorless hyphae, 2-3 μ broad. Clamps present.

Pepidatus Sm-66916



Ch. x 1000

(partially mature only?)

vulgaris
CREPIDOTUS Sm-66951

Photo

On hardwood, Lewiston, Mich., July 30, 1963.

~~(Same as Beach-20)~~

~~(exclus Sm 66951)~~

Pileus 4-15 mm broad, fan-shaped from an early stage on, surface watery-white young, very thin and diaphanous, thinly fibrillose, almost glabrous at the base. Context extremely delicate. No odor or taste. FeSO_4 slowly olive-fuscons, KOH - 0.

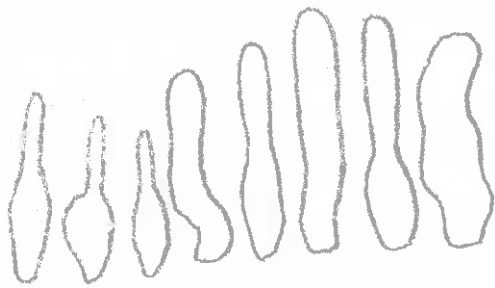
Lamellae close, moderately broad, attached to base (or a pseudostipe at first), edges even.

Stipe present at first as a hyaline pseudostipe.

Spores 6-7 x 4-4.5(5) μ , ellipsoid, somewhat inequilateral in profile, punctate, yellowish in 2% KOH. Basidia 20-26 x 4-5 μ , 4-spored. Pleurocystidia none; cheilocystidia 20-32 x 5-7 μ , cylindric, bottle-shaped, ventricose, at times with a neck, moderately inconspicuous. Gill trama slightly interwoven, hyphae 3-5 μ broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing scattered or gregarious, more or less erect, colorless hyphae, somewhat constricted, some cells more or less inflated, (2)4-7 μ broad. Clamp connections present.

Cf. 66951 and Beach-20 with variabilis.

Gepidostus Sm-66951



Ch - x 1000

Grepidotellae

vulgaris
GREPIDOTUS Sm-67054

On sticks, Tahquamenon, Aug. 7, 1963.

(Same as Sm-39873)

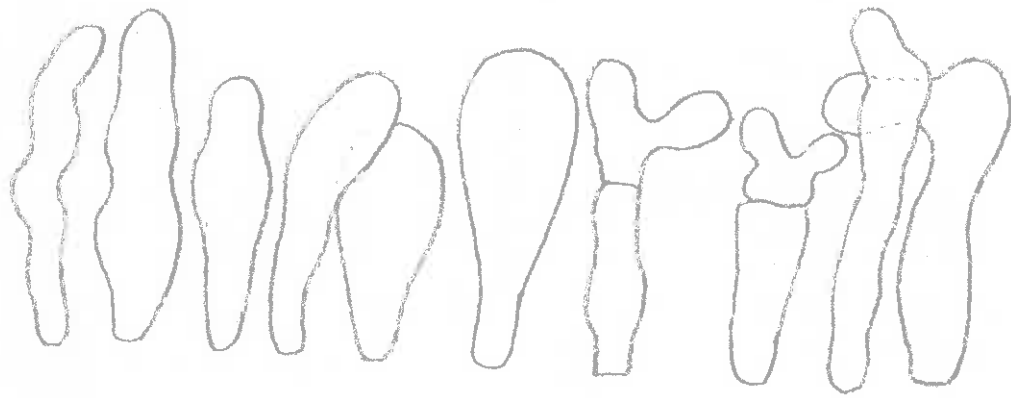
8-12 mm broad,
remaining dull white when dried,

Pileus [^]white, cottony, sessile. KOH and FeSO₄: 0.

Lamellae broad, subdistant.

Spores cinnamon buff in deposits. Spores ^{6-7.5 x 4-5 μ ,} ~~6-7.5 x 4-5 μ ,~~
ellipsoid, slightly inequilateral, punctate. Basidia 26-30 x
5-7 μ , 2-4-spored. Pleurocystidia none; cheilocystidia 30-52 x
7-15 μ , clavate, ventricose, often irregular (constricted, forked,
branched). Gill trama interwoven, hyphae 6-15 μ broad. Pileus
trama loosely interwoven. Cuticle of repent hyphae, bearing a
turf of colorless hyphae, 3-7 μ broad. Clamp connections present.

Orepidotus Sm-67054



Ch - x 1000

CREPIDOTUS *vulgaris* Sm-67284

(Same as Sm-49768)

On hardwood, North Pond, Mass., leg.

N. J. Smith, Aug. 26, 1963.

snow white, remaining so when dried,

Pileus 1-3 cm broad, fan-shaped, [^]densely white-cottony over all, more so at base, margin incurved and white-tomentose, lobed in age.

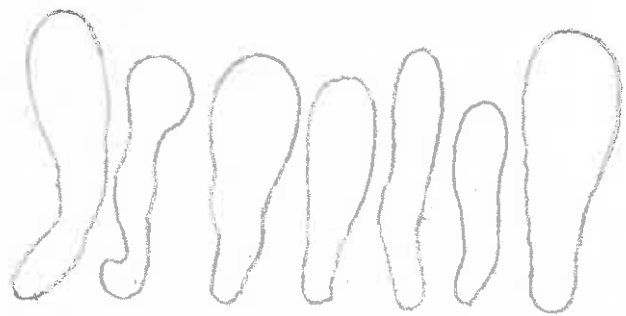
Lamellae narrow, close, white, then cinnamon, radiating from the pseudostipe.

Pseudostipe present in the young stage.

FeSO₄ - pale olive; KOH - 0.

Spores 6-8 x 4-5 μ , ellipsoid, obscurely inequilateral, punctate. Basidia 22-26 x 5-7 μ , 4-spored. Pleurocystidia none; cheilocystidia 26-38 x 6-12 μ , clavate or subcylindric, at times subcapitate. Gill trama interwoven, hyphae 5-9 μ broad. Pileus trama interwoven. Cuticle bearing a turf of colorless hyphae, 2.5-4 μ broad. Clamp connections present.

Crepidulus Sm. 67284
(= Sm. 49768)



Ch. x 1000

subtileus
CREPIDOTUS Miller-1047 - *Type*

(near Sm 10963)

On dead elm, Pellston Hills, Mich., leg. O. Miller, July 17, 1961.

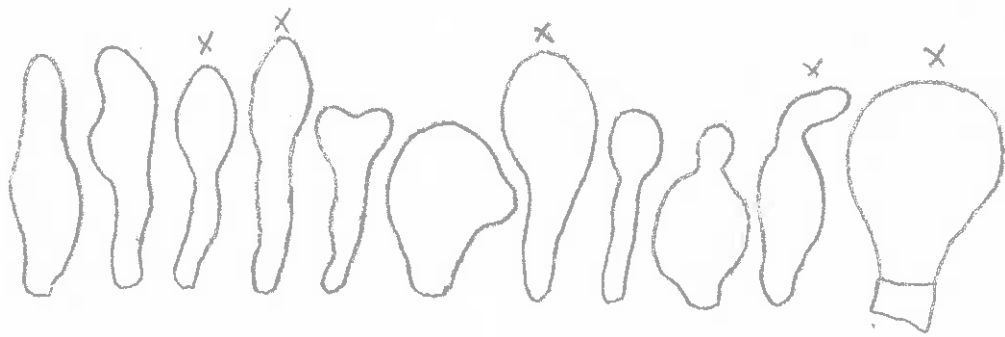
Pileus pure white, 8-15 mm. broad, faintly pubescent under lens.

close or nearly
Lamellae [^]subdistant, narrow, with a "yellow ocher" tint (dried).

Spores 7-9 x 4.5-5.5 μ , ellipsoid, inequilateral in profile, obscurely punctate or nearly smooth, in deposit: near "yellow ocher." Basidia 26-30 x ~~7-9~~ ⁶⁻⁸ μ , 4-spored. Pleurocystidia none; cheilocystidia 22-34 x ~~8-21~~ ⁶ μ (middle) x ~~5-12~~ μ (apex), clavate (rarely faintly forked), spathulate, ventricose, or vesiculose. Gill trama interwoven, many hyphae short celled, 6-12 (20) μ broad. Pileus trama interwoven. Cuticle of repent hyphae bearing a turf of ~~straight~~ ^{*The apical portions often crooked and coiled.*} colorless, non-incrusted hyphae, 2-5 μ broad. Clamp connections present.

Cf. C. versutus, which has different ch + lacks clamps

Crepidotus Miller - 1047



Ch - x 1000

hamcaia sp. nov.
CREPIDOTUS Potter-3355

(Same as Potter-3675)

The macroscopic and microscopic characters all agree
with those of Potter-3675.

H. o ; hyphae crooked or coiled

P. whitish

Sp 7.5-9 x 5-6 μ

Hampealis sp. nov.
CREPIDOTUS Potter-3675

(near Sm-19444, same as Potter-3355)

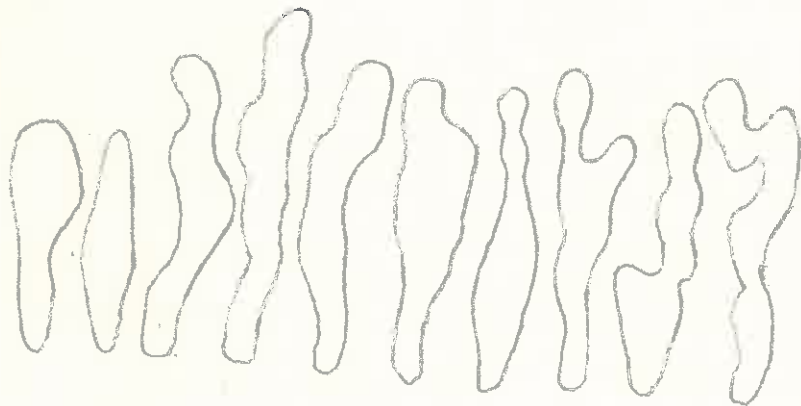
On stick, Allen's Woods, Ithaca, Mich., leg. Victor Potter,
Aug. 31, 1947.

Pileus whitish, velvety or matted-fibrillose.

medium
Lamellae [^] narrow, medium close.

Spores $7.5-9 \times 5-6 \mu$, ellipsoid, inequilateral in profile, obscurely punctate, yellowish-brown in 2% KOH. Basidia $26-34 \times 6-7 \mu$, 4-spored. Pleurocystidia none; cheilocystidia $30-48 \times 5-10 \mu$, cylindric and flexuous, often crooked and contorted, more rarely more or less forked, at times clavate. Gill trama interwoven, hyphae $5-8 \mu$ broad. Pileus trama ~~-~~ interwoven. Cuticle of repent hyphae, bearing scattered to gregarious or dense hyphae, $3-7 \mu$ broad, forming a turf, the hyphae crooked to coiled. Clamp connections present.

Orepidotus Potter-3675



ch - x 1000