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November 2013

### Crepidotus Notebook 5

L. R. Hesler

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# BIGELOW'S CREPIDOTUS

## Identifications

February 25, 1964

- 5057 - lundellii Pilát
- 5575 - fusisporus var. anomalis Hes. & Sm. var. nov.
- 6265 - herbarum (Pk.) Sacc.
- 6269 - applanatus (Fr.) Kummer var. applanatus sensu Jossierand
- 6824 - cystidiosus Hes. & Sm. sp. nov.
- 6825 - cystidiosus Hes. & Sm. sp. nov.
- 6828 - applanatus (Fr.) Kummer var. applanatus sensu Jossierand
- 6829 - " " "
- 6835 - " " "
- 6951 applanatus var. globigera (Berk.) Sacc.
- 7076 - applanatus (Fr.) Kummer var. applanatus sensu Jossierand
- 7077 - " " "
- 7078 - applanatus var. globigera (Berk.) Sacc.
- 7193 - Immature? After considerable hesitation, I am leaving it out of our manuscript. It may be immature.
- 7258 - malachius (B. & C.) Sacc. var. malachius
- 7259 - nephrodes (B. & C.) Sacc. (We think fulvifibrillosus Murr. is a synonym.)
- 7265 - malachius (B. & C.) Sacc. var. malachius
- 7539 - Probably not a Crepidotus; it has nearly colorless spores, reddish-brown gills, and lacks cheilocystidia. No decision on the genus.
- 8232 - amygdalosporus Kuhn. Smith and I have several collections, and I am placing them under this name now, even though I have written Kuhn twice for the type, and he ignores me.
- 8251 - mollis (Fr.) Staude var. mollis. We are placing haerens, calolepidoides, and fulvotomentosus in synonymy under Mollis var. mollis.

- 8326 - nephrodes (B. & C.) Sacc./
- 8576 - vulgaris Hes. & Sm. sp. nov.
- 8954 - applanatus var. globigera (Berk.) Sacc.
- 9089 - applanatus var. globigera (Berk.) Sacc.
- 9467 - applanatus (Fr.) Kummer var. applanatus sensu Josserand
- 9728 - " " "
- 9907 - " " "
- 10156- amygdalosporus Kuhner (See Bigelow-8232, notes.)
- 10194- fusisporus Hes. & Sm. sp. nov. var. fusisporus
- 10337- amygdalosporus Kuhner (See Bigelow-8232, notes.)
- 10569- mollis (Fr.) Staude var. mollis
- 10570- cystidiosus Hes. & Sm. sp. nov.
- 10571- confertus Hes. & Sm. sp. nov.
- 10572- applanatus (Fr.) Kummer var. applanatus sensu Josserand
- 10573- " " "
- 10595- applanatus var. diversus Hes. & Sm. var. nov.
- 10625- applanatus (Fr.) Kummer var. applanatus sensu Josserand
- 10639- crocophyllus (Berk.) Sacc. We place dorsalis (Pk.) Sacc. in synonymy.
- 10766- nephrodes (B. & C.) Sacc. (See notes under 7259.)
- 10774- crocophyllus (Berk.) Sacc. (See notes under 10639.)
- 11145- malachius (B. & C.) Sacc. var. malachius
- 11244- Not a Crepidotus.
- 11314- applanatus (Fr.) Kummer var. applanatus sensu Josserand
- 11328- " " "
- 11541- applanatus var. globigera (Berk.) Sacc.

  
L. R. Hesler

CREPIDOTUS Bigelow-3084

near Guerette, Aroostock Co., Maine, leg. H.E.B. & M.E.B.,  
July 7, 1956.

Same as Bigelow-3034 (see notes there).

*where are they?*

*Cundellia*  
= *Shaffer* 1300  
CREPIDOTUS Bigelow-5057 (H-25461)

Huntington State Forest, N. Y., leg. H. E. Bigelow, June 29, 1957.

5-8 mm broad, sessile,  
Pileus glabrous, <sup>or somewhat</sup> ~~whitish~~ villose, whitish when fresh.

Lamellae close, ~~narrow~~ broad.

Spores 6.3-8 x 5-5.5  $\mu$ , ellipsoid, slightly inequilateral in profile, smooth. Basidia 18-23 x 5-6  $\mu$ , 4-spored. Pleuro-

cystidia none; cheilocystidia 23-<sup>56</sup>37 x <sup>5-10</sup>3-4-6  $\mu$ , 4-spored.

~~Pleurocystidia none; cheilocystidia 23-37 x 3-4 x 5-10  $\mu$ , clavate,~~  
cylindric, ventricose, bottle-shaped, apices rounded, rarely

hooked or curved. Gill trama subparallel to slightly interwoven,

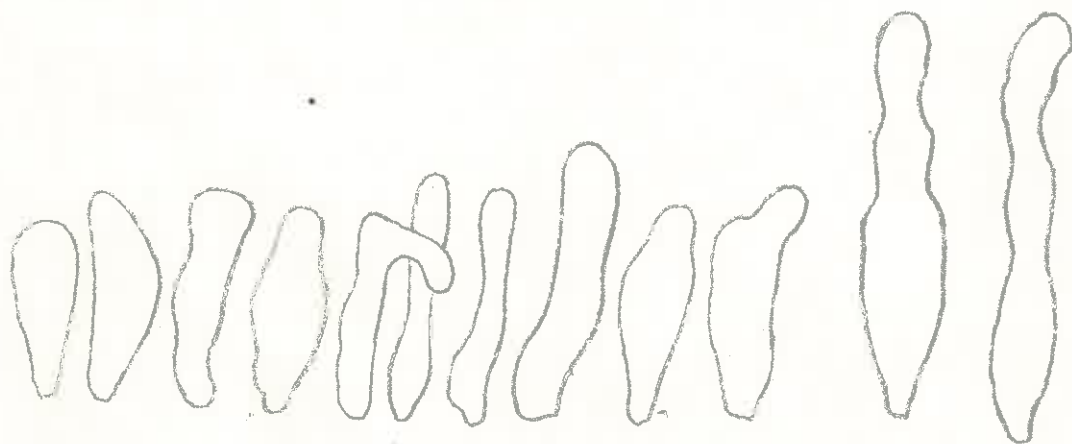
hyphae 5-10  $\mu$  broad. Pileus trama more or less vesiculose.

Cuticle of ~~gill~~ hyphae, with scattered, ~~erect~~ <sup>not differentiated the surface bearing</sup> ~~erect~~ <sup>±</sup> ~~erect~~ <sup>sturf</sup>  
~~clavate to cylindric pilocystidia 35-67 x 6-8  $\mu$ . Clamp connec-~~

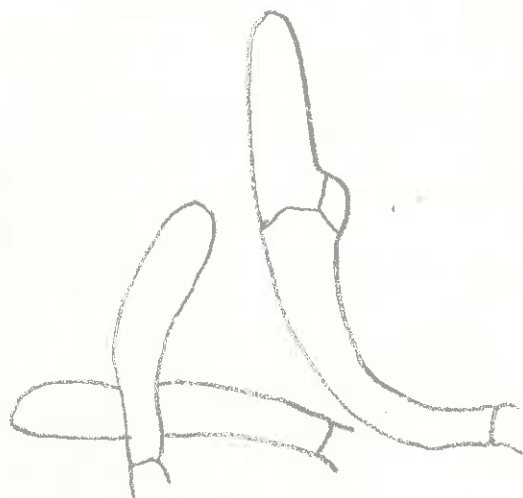
tions present.

Since there are no notes, and the material not the best,  
I am not satisfied with my study of it. It is clearly not  
applanatus. It may not be too far from cinchonensis Murr., but  
is not that.

*Grepidotus* <sup>*lundellii* Pilat.</sup> Bigelow - 5057



Ch - x 1000



Pilo - x 1000

*fusiform var anomalus*  
CREPIDOTUS

Bigelow-5575

= Big-10194

(= H 25466)

On hardwood twigs, Lake Munroe, Mt. Tremblanc Park, Quebec,  
leg. Bigelow, July 22, 1957.

Pileus 6-10 mm. broad, white, pubescent.

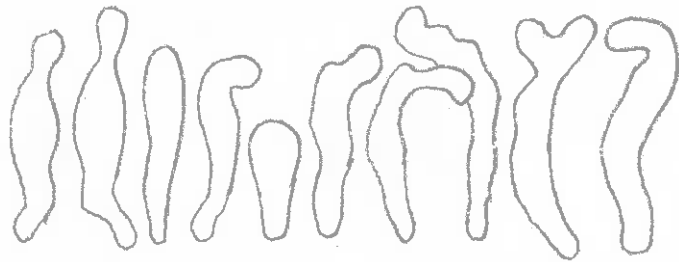
Lamellae narrow or medium narrow, subdistant or nearly so.

Spores 7-10 x 3-4.5  $\mu$ , fusoid, slightly inequilateral in profile, wall apparently gelatinous (two to four often cling together), ~~smooth or nearly~~ <sup>obscurely</sup> rough, colorless or nearly so singly, pale yellowish-brown in large groups. Basidia 18-25 x 4.5-6  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 15-33 x 4-7  $\mu$ , short-clavate to pyriform, ventricose, cylindric, clavate, apices capitate to hooked or slightly forked, often slightly irregular. Gill trama interwoven, hyphae 3-6  $\mu$  broad. Pileus trama interwoven. Cuticle a turf of more or less erect, slender (3-7  $\mu$ ) hyphae. Clamp connections present.

We have some fusiform-spored collections. Your 5575 seems to be the same as Smith-36812 and <sup>49680</sup> ~~4960~~, from Michigan.

cf Bigelow-10194

*Orepidotus* Bigelow - 5575



Ch - x 1000



CREPIDOTUS HERBARUM (Pk.) Sacc.

(Bigelow-6265)

(U-T-75460)

On hardwood, Fish Hatchery, near Sunderland,  
Mass., leg. H.E.B., Sept. 15, 1957.

Pileus white, villose or pubescent.

Lamellae medium broad to narrow, moderately close.

Spores 6-8 (9) x 2.5-3.3  $\mu$  (diameter measured at broad end), pip-shaped, lanceolate, or at times subovoid, smooth, colorless (singly) or slightly yellowish in clumps. Basidia 23-27 x 4.5-6  $\mu$ , 2-4-spored. Pleurocystidia none; cheilocystidia 20-30 x 3-5 x 2-4  $\mu$ , cylindric, clavate, bottle-shaped (with a slender neck). Gill trama subparallel, hyphae 3-7  $\mu$  broad. Pileus trama interwoven. Cuticle a turf of colorless, long, slender (2-3  $\mu$ ) hyphae. Clamp connections absent.

The type is meagre, and not wholly satisfactory for critical study. The spores remind one of those of the agaric which passes under the name Pleurotus septicus. Singer places C. herbarum in Pleurotellus.

The cheilocystidia in your No. 6265 are smaller than in the type.

CREPIDOTUS APPLANATUS (Fr.) Kummer var *applanatus*  
(Bigelow-6269)

On Quercus borealis, Rattlesnake Gutter, Sunderland, Mass.,  
leg. Bigelow, Sept. 16, 1957.

Spores 4.3-5.5  $\mu$ , globose, punctate. Cheilocystidia  
38-63 x 4-6  $\mu$ , cylindric to slightly ventricose. Cuticle  
repent, with scattered to gregarious pilocystidia. Clamp  
connections present.

Agrees with Josserand's material in essential characters.

*cyrtidicous*  
CREPIDOTUS Bigelow-6824 (IT 25467)

Lover's lane, Univ. Mass., Amherst, leg. H.E.B., July 12, 1958.

Pileus 1.5-3 cm. broad, pale watery brown, glabrous, whitish and opaque when faded. Odor and taste none.

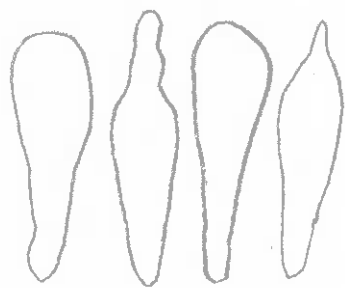
Lamellae close, broad to medium broad.

Spores 5-<sup>7</sup>6.5- $\mu$ , globose, punctate, in deposit: near "antique brown." Basidia 27-32 x 7-9  $\mu$ , 1-2-4-spored. Pleurocystidia 32-35 x 8-10  $\mu$ , clavate, at times appendiculate, projecting only slightly; cheilocystidia 20-44 x 4-9  $\mu$ , filamentous, ovoid-subvesiculose <sup>or</sup>  $\wedge$  clavate, at times constricted, occasionally mucronate. Gill trama subparallel and slightly vesiculose. Pileus trama interwoven and vesiculose. Cuticle of repent interwoven hyphae, forming a narrow (35-50  $\mu$ ) dingy zone; pilocystidia none. Clamp connections ~~none~~ <sup>present</sup>.

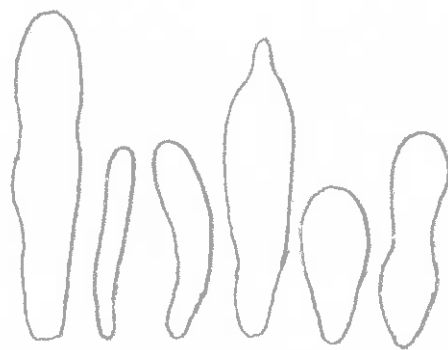
~~This one, with 3 or 4 from Dr. A. H. Smith, will probably form a special section. They, like yours, have globose, punctate spores, no clamps (at least I found none); and in yours there are pleurocystidia. The number of species with pleurocystidia is, in my limited experience, not large.~~

~~(Note to Bigelow: If you find clamp connections, let me know.)~~

*Grepidotus Begdon-6824*



Pl - x 1000



Ch - x 1000

*cyathodermis*

CREPIDOTUS Bigelow-6825

(Bigelow says: "same as 6824")

Spores 5-6.5 (7)  $\mu$ , globose, punctate. Pleurocystidia clavate, few; cheilocystidia clavate, 30-36 x 6-10  $\mu$ . Gill trama subparallel to slightly interwoven, hyphae 6-10  $\mu$  broad, at times somewhat vesiculose. Pileus trama interwoven and more or less vesiculose. Cuticle of repent hyphae. Clamp connections ~~present~~ present.

*var. applanatus*

CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Jossierand

(Bigelow-6828)

Lover's Lane, Univ. Mass., Amherst, leg. H.E. B., July 12, 1958.

Pileus watery-pallid, fading to white and opaque, striate.  
Odor and taste none.

Lamellae narrow, close.

Sporës 4-5.5  $\mu$ , globose, punctate. Basidia 23-27 x 6-7  $\mu$ ,  
4-spored. Pleurocystidia none; cheilocystidia as usual. Cuticle  
of repent hyphae, with scattered, clavate, or cylindric,  
pilocystidia, 30-46 x 6-8  $\mu$ . Clamp connections present.

Agrees with Jossierand's material.

*var. applanatus*  
CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Josserand

(Bigelow-6829)

Lover's lane, Univ. of Mass., Amherst, Mass., leg. H.E.B.,  
July 12, 1958.

Spores 4.5-5.5  $\mu$ , globose, punctate. Agrees well with  
Josserand's material.

Same as Bigelow-6828.

*var. applanatus*

CREPIDOTUS APPLANATUS (Fr.) Kummer

(Bigelow-6835)

Lover's Lane, Univ. Mass., Amherst, leg. H.E.B.,  
July 12, 1958.

Pileus watery pallid on the margin, pale drab on the disc,  
margin not striate.

Lamellae close, narrow to moderately so.

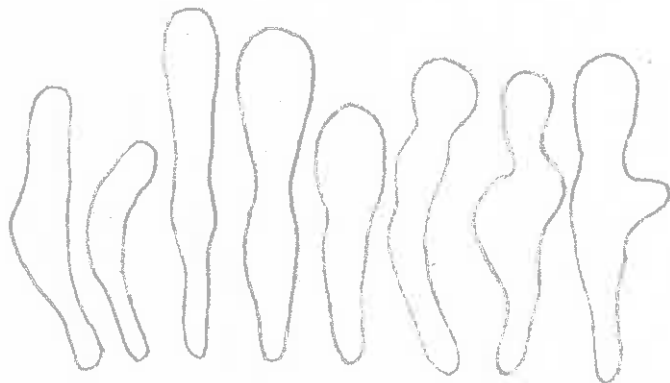
Stipe none.

Spores 4.2-5.5 (6)  $\mu$ , globose, punctate. Basidia 24-28 x  
5-6  $\mu$ , 4-spored (rarely 1-spored). Pleurocystidia none; cheilo-  
cystidia 30-44 x 5-10  $\mu$ , clavate, ventricose, more rarely slightly  
branched and irregularly-shaped. Gill trama subparallel, hyphae  
4-10  $\mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae,  
with scattered pilocystidia, 40-64 x 4-10  $\mu$  (at broadest point),  
filamentous, clavate, ventricose, bottle-shaped with a slender  
neck. Clamp connections present.

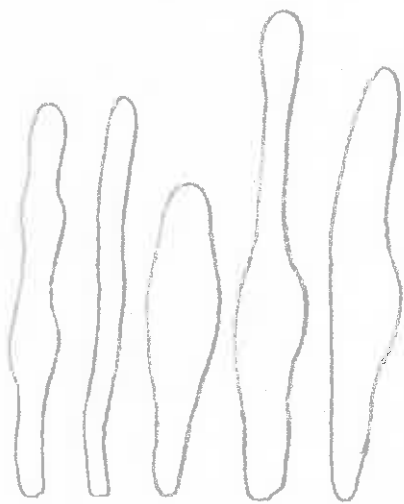
The margin may have been striate when wet. I do not know  
the importance, if any, of the pale drab disc.



*Repidotus appplanatus* (Fl.) Kummer  
(Bigelow - 6835)



Ch - X 1000



Pilo - X 1000

CREPIDOTUS

*affluatus* var. *globiger* (Berk.) Sacc.

(Bigelow-6951)

Lover's lane, Univ. Mass., Amherst, leg. R. B. Livingston,  
July 19, 1958.

Pileus watery pallid, shining, silky white and opaque  
when faded, moist, striate. Odor and taste none.

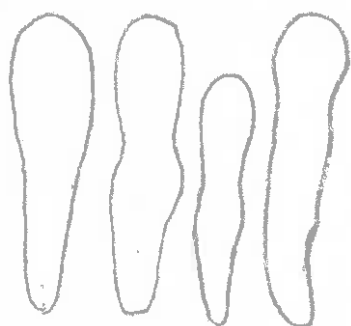
Lamellae medium close, medium ~~medium~~ <sup>narrow</sup>

Spores in deposit: "ochraceous tawny," 4.5-<sup>6.5</sup>~~6~~  $\mu$ , globose,  
punctate. Basidia 30-41 x 6-11  $\mu$ , clavate, at times more or  
less ventricose. Gill trama subparallel, hyphae 6-11  $\mu$  broad.  
Pileus trama interwoven. Cuticle of repent hyphae; no pilo-  
cystidia. Clamp connections none.

This one is generally close to Bigelow-6824, but differs  
chiefly in the lack of pleurocystidia.

Pl. none; ch. 32-42 x 7-10  $\mu$ , clavate to slightly ventricose.

*Gepidostus*  
(Bigelow-6951)



Ch - x 1000

*var. applanatus*  
CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Jossierand

(Bigelow-7076)

Lover's lane, Univ. Mass., Amherst, Mass., leg. H.E.B., July 24, 1958.

Pileus watery-pallid, fading to white and opaque, darkening in age to pale drab, striate when moist. Context soft and fragile; odor and taste none.

Lamellae close, narrow.

Spores 4.5-5.5 (6)  $\mu$ , globose, punctate. All characters agree well with Jossierand's material.

CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Josserand

var. *applanatus*

(Bigelow-7077)

Lover's Lane, Univ. Mass., leg. H.E.B., July  
24, 1958.

Spores 4.5-5.5  $\mu$ , rarely 6  $\mu$ , globose, punctate. Other  
characters typical.

Bigelow says it is same as 7076.

var *globigera* (Berk.) Race

CREPIDOTUS APPLANATUS (Fr.) Kummer Bigelow-7078

(Bigelow says "same as 7076")

Spores 4.5-5.5 (7)  $\mu$ , globose, punctate. Other characters also indicate C. applanatus, including scattered pilocystidia, 30-42 x 5-9  $\mu$ , filamentous to clavate.

In Jossierand's material I found the spores 4.3-5.5  $\mu$ ; some American collections agree, others (some of yours, Smith's, and mine) have spores scattered through the field that run to 7  $\mu$  in diameter. I have not decided what the significance of larger spores may turn out to be.

CREPIDOTUS Bigelow-7193

Immature?  
Leave out?

Mt. Toby, ~~Massachusetts~~ ~~(spelling? Connecticut?)~~, leg. H. E. Bigelow, July 28, 1958.

Pileus pale orange-yellow, fibrillose.

Lamellae "antimony yellow", close, narrow to medium broad.

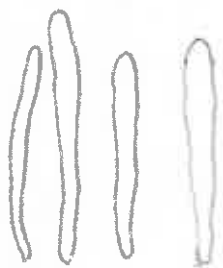
Stipe none.

Spores 3.8-4.5 x 2.5-3.3  $\mu$ , ellipsoid, punctate, nearly colorless to dilute yellowish-brown. Basidia 26-30 x 4-5  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 26-32 x 2.5-3.5  $\mu$ , filamentous. Gill trama more or less interwoven, hyphae 4-6  $\mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae, with scattered, more or less erect colorless hyphae. Clamp connections present.

The colors suggest C. croceitinctus Pk., but the spores and cheilocystidia are wrong.

The spores may be immature; The ch are short + slender, and may also be immature. Omit?

*Prepidotus* Bigelow - 7193



Ch - x 1000



CREPIDOTUS MALACHIUS (B. & C.) Sacc. *var malachius*  
(Bigelow-7258)

Savoy Mt. State Forest, Savoy, Mass., leg. H.E.B., Aug. 1, 1958.

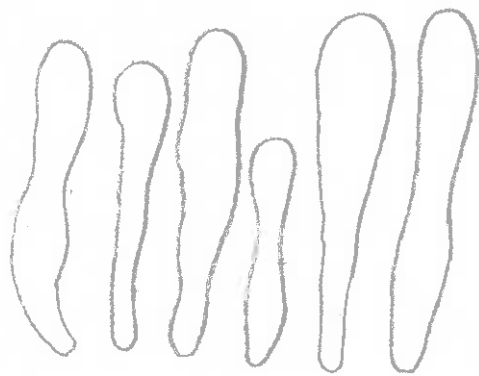
Pileus watery white, glabrous, finely striate.

Lamellae broad, close.

Spores 5.5-7.5  $\mu$ , globose, punctate. Basidia 30-35 x 6-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 30-47 x 5-10  $\mu$ , clavate to ventricose, or slightly nine-pin-shaped. Cuticle of repent hyphae. Clamp connections present. Lactifers present in the pileus trama.

*Pepidotus malachius* (B.+C.) Race.

Bigelow - 7258



Ch - x 1000

*nephrodus (B+E) Saec*  
CREPIDOTUS FULVIFIBRILLOSUS Murr.

(Bigelow-7259)

Savoy Mt. State Forest, Savoy, Berkshire Co., Mass.,  
Aug. 1, 1958.

Pileus watery white, finely striate, with brownish fibrillose scales which may be either numerous or scattered.

Lamellae medium broad to medium narrow, close or crowded.

Spores 5-6 (7)  $\mu$ , globose, punctate. Basidia 21-26 x 5-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 25-42 x 5-7  $\mu$ , clavate to subventricose, often appressed against the gill-edge. Gill trama subparallel to slightly interwoven, hyphae 6-12  $\mu$  broad. Pileus trama interwoven. Cuticle bearing a turf of (a) colorless hyphae, 3-7  $\mu$  broad; and (b) brown hyphae, some incrustated, 5-10  $\mu$  broad. Clamp connections on both the colorless and brown, epicuticular hyphae.

This agrees well with the type except that the gill trama hyphae in this collection are broader than in the type, and some of the spores are about 0.5-1.0  $\mu$  larger.

~~It is close to C. nephrodus which is devoid of fibrillose scales.~~

~~Call it fulvifibrillosus for now, ~~note the lack~~ with faint misgivings.~~

CREPIDOTUS MALACHIUS (B. & C.) Sacc. *var malachius*

(Bigelow-7265)

Savoy Mt. State Forest, Berkshire Co., Mass., leg. H.E.B.,  
Aug. 1, 1958.

Pileus glabrous, watery pallid, striate.

Lamellae broad, close.

Spores 5.5-7.5  $\mu$ , globose, punctate. Basidia 28-35 x  
6-7 (8)  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia  
27-43 x 8-10  $\mu$ , clavate, subcylindric, or ventricose. Cuticle  
of repent hyphae. Clamp connections present. Lactifers  
abundant in the pileus trama.

7  
1  
CREPIDOTUS BIGELOW-7539

On wood, Amherst, Mass., leg. H.E.B., Aug. 17, 1958.

Spores  $3.7-4.8 \times 3-3.5 \mu$ , ellipsoid, smooth, pale brownish or almost colorless. Basidia  $27-33 \times 5 \mu$ , 4-spores. Pleurocystidia and cheilocystidia none. Gill trama subparallel, irregularly-shaped, hyphae  $4-8 \mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing two types of hyphae: (1) colorless, scattered to gregarious (at times almost a turf),  $2-3 \mu$  broad; (2) brown, slightly incrusted,  $10-15 \mu$  broad, in tufts, forming scattered brownish more or less repent scales. Clamp connections present on the colorless epicuticular hyphae and on the pileus trama hyphae.

The small, nearly colorless spores, the reddish-brown gills (dried), the long, slender basidia, and the lack of cheilocystidia suggest that this is not a Crepidotus. Notes on color of pileus, gills, and spore deposit might help identify it.

*amphigaliformis*  
CREPIDOTUS Bigelow-8232

On hardwood twigs, Wachonah Falls State Park, Dalton, Berkshire Co., Mass., leg. H.E.B., July 22, 1959.

Pileus white, tomentose.

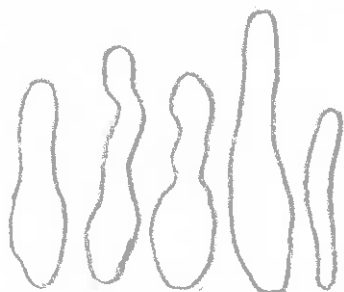
Lamellae close, medium broad.

Spores 7-9.5 x 4.5-5  $\mu$ , ellipsoid, ~~wavy-walled~~, inequilateral in profile, punctate, brownish in clumps, paler singly. Basidia 20-27 x 6-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 23-38 x <sup>4</sup>~~6-8~~ ~~x 4-5~~  $\mu$ , bottle-shaped or cylindric-clavate. Gill trama undulating subparallel to slightly interwoven, hyphae 4-10  $\mu$  broad. Pileus trama densely interwoven. Cuticle a loosely tangled turf of colorless hyphae, 4-6  $\mu$  broad. Clamp connections present.

This is near to or same as Bigelow-10337.

The pileus, in section, presents a stratose appearance, the pileus trama proper is densely interwoven, and the turf is loosely tangled.

*Orepidotus* - 8232



Ch - x 1000

*Stauder var. mollis*

CREPIDOTUS MOLLIS (Fr.) ~~Kuover~~

(Bigelow-8251)

On conifer log, Wahconyah Falls State Park, Dalton-Windsor,  
Mass., coll. HEB, July 22, 1959.

Pileus 8-15 mm. ground color ochraceous buff, with  
numerous, fine, brownish, fibrillose scales.

Lamellae narrow, close.

Spores 7-9.5 x 5-6  $\mu$ , ellipsoid, inequilateral in profile,  
smooth, wall double, brown. Basidia 25-32 x 6-7  $\mu$ , 2-4-spored,  
sterigmata up to 5-7  $\mu$  long. Pleurocystidia none; cheilocystidia  
of two types: (a) regular (hymenial), 27-50 x 5-6  $\mu$ , slender  
fusoid to ventricose; (b) tramal, 64-80 x 4-5  $\mu$ , gelatinous,  
filamentous, at times subcapitate. Gill trama subparallel, hyphae  
4-9  $\mu$  broad. Pileus trama interwoven. Cuticle a gelatinous zone  
100-220  $\mu$  thick, of interwoven slender (3-5  $\mu$ ) hyphae, bearing  
tufts of brown, incrustated hyphae, 5-8  $\mu$  broad. Clamp connections  
none.

At this writing, I call the narrow-gilled species (this one)  
mollis; and the broad-gilled one fulvotomentosus. If this dis-  
tinction holds up—so it is! If it doesn't then I guess  
fulvotomentosus may become a synonym of mollis. Pilat would  
call this (Bigelow-8251) C. mollis var. calolepis (Fr.) Pilat,  
but I cannot accept this variety-name yet.



*Peperdotus mollis* (Fr.) Kummer

Bigelow - 8251



Ch -  $\times 1000$   
(hymenial)



Ch -  $\times 1000$   
(tramal)

*not found*  
CREPIDOTUS FULVIFIBRILLOSUS Murr.

(Bigelow-8326)

Windsor Jambs, Windsor State Forest, Berkshire  
Co., Mass., leg. H.E.B., July 30, 1959.

Pileus whitish beneath a thin brownish tomentum, near  
"ochraceous tawny."

Lamellae close, narrow to moderately so, thin.

Spores 4.5-6  $\mu$ , globose, punctate. Basidia 23-27 x 5-6  $\mu$ ,  
4-spored. Pleurocystidia none; cheilocystidia 26-35 x 6-8  $\mu$ ,  
clavate or ventricose. Gill trama undulating subparallel, hyphae  
3.5-8  $\mu$  broad, the trama a narrow zone (gills thin). Pileus  
trama interwoven and somewhat vesiculose. Cuticle of repent  
hyphae bearing two types of epicuticular hyphae: (1) colorless,  
5-6  $\mu$  broad; (2) brown, some incrustated, 6-10  $\mu$  broad. Clamp  
connections present on both the colorless and brown epicuticular  
hyphae.

I assume that the gills were at first white then brownish.  
On this assumption, I would call it C. fulvifibrillosus.

*vulgaris*  
CREPIDOTUS Bigelow-8576

Wendell State Forest, Franklin Co., Mass., leg. H.E.B., Sept. 4, 1959.

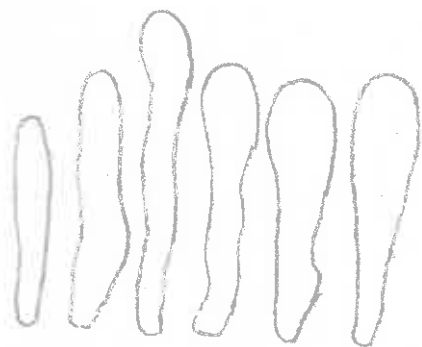
Pileus 4-10 mm. broad, whitish, villose or pubescent.

Lamellae close or subdistant, medium broad to narrow.

Spores 6-8 x 4-5  $\mu$ , ~~obovoid~~ ellipsoid, inequilateral in profile, punctate, brownish. Basidia 28-33 x 6-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 28-42 x 5-9  $\mu$ , clavate, at times slightly capitate. Gill trama subparallel to slightly interwoven, hyphae 3-7  $\mu$  broad. Pileus trama densely interwoven. Cuticle of repent hyphae, bearing either scattered or a turf of tangled hyphae, 2.5-4  $\mu$  broad. Clamp connections present.

Near Bigelow-8532, <sup>8232</sup> which has larger spores (7-9.5 x 4.5-5).

*Orepidotus* Bigelow - 8576



Ch. - x 1000

*applanatus* var. *globigera* (Berk.) Sacc.  
CREPIDOTUS Bigelow-8954

(applanatus-group)

On conifer log, Wahconah Falls, Dalton, Mass., leg. H.E.B.,  
July 26, 1960.

Pileus watery whitish to "tilleul buff", at times with a  
slight avellaneous tint, not striate.

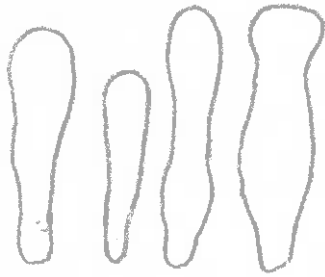
Lamellae close to crowded, narrow to medium broad.

Stipe short, lateral, <sup>temporary</sup> or more commonly the pileus merely  
prolongated laterally, tomentose.

Spores 5-7  $\mu$ , globose, more rarely 7 x 8  $\mu$ , punctate.  
Pleurocystidia none; cheilocystidia 25-36 x 6-10  $\mu$ , clavate  
to ventricose, rarely obscurely capitate. Gill trama subparallel,  
hyphae 5-12  $\mu$  broad. Pileus trama interwoven. Cuticle of repent  
hyphae, rarely with pilocystidia, clavate or cylindric. Clamp  
connections present, rare.

Near malachius, which has similar spores, but <sup>malachius</sup> has broad  
gills.

*Orepidotus* Bigelow-8954



Ch - x 1000

CREPIDOTUS APPLANATUS (Fr.) Kummer

*var globigera* (Berk.) Sacc.  
Photo

Bigelow-9089

On rotten wood, Savoy Mt. State Park, Savoy, Mass., leg. H.E.B.,  
Aug. 16, 1960.

Pileus pale watery avellaneous when moist.

Lamellae close, narrow.

*Pseudostipe* *pileus prolongation*  
Stipe at times present, 5-7 mm. x 1.5-2 mm., more or  
less tomentose.

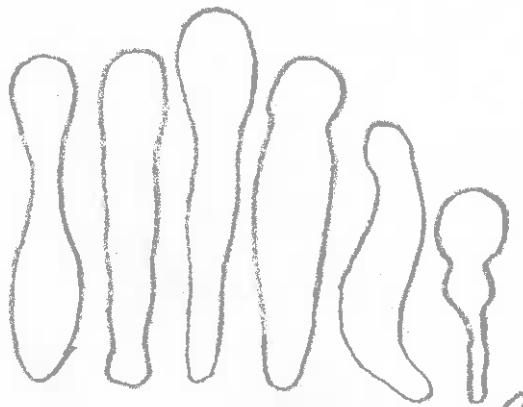
Spores 5-7.5 (8)  $\mu$ , globose or subglobose, punctate.  
Pleurocystidia none; cheilocystidia 28-48 x 6-9 x 3-6 x 6-10  $\mu$ ,  
clavate, at times subcapitate, nine-pin-shaped, or slightly  
ventricose. Gill trama slightly interwoven, hyphae 5-9  $\mu$  broad.  
Pileus trama slightly interwoven, hyphae 5-9  $\mu$  broad. Pileus  
trama more or less vesiculose to interwoven. Cuticle of repent  
hyphae, bearing scattered to gregarious, more or less erect,  
colorless, long (up to 125  $\mu$ ) hyphae, the terminal elements  
frequently as pilocystidia; also with scattered, more or less  
clavate pilocystidia (42-65 x 9-10  $\mu$ ). Clamp connections present.

Toward the base of the pileus (near and at the point of  
attachment, there is a strongly developed trichodermium of erect,  
long, slender, colorless, non-incrusted hyphae.

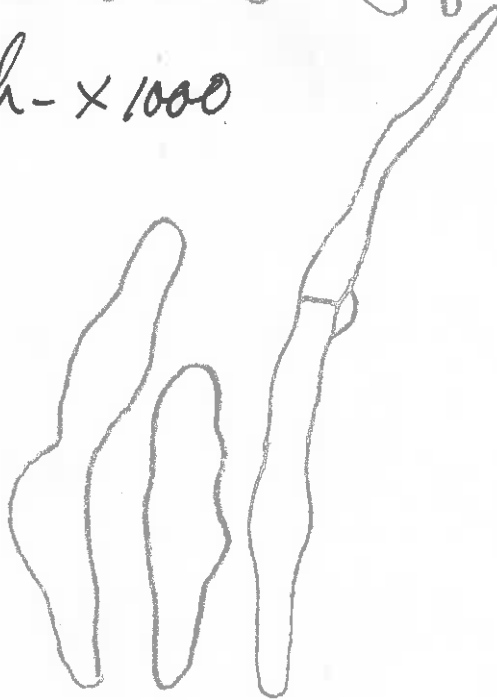
This differs from Jossierand's applanatus in larger spores,  
and in the presence of long, hyphoid pilocystidia—perhaps we may  
give it a variety-name. Yours seems same as Smith-41123, or close.

*Orepidatus appplanatus* (Fr) Kummer

Bigelow - 9089



Ch -  $\times 1000$



Pile -  $\times 1000$



CREPIDOTUS APPLANATUS (Fr.) Kummer <sup>var affluatulus</sup> sensu Jossierand

HEB #9467

Pileus 1-2 cm, broad, petaloid or flabelliform in outline when young, dimidiate when expanded, convex to broadly convex, margin somewhat incurved, narrowly incurved for some time, even, surface moist, opaque, whitish to pale watery buff in age (a very pale vinaceous buff), fading to white with loss of moisture; flesh thin, watery pallid then white, brittle, odor and taste not distinctive; attached laterally, sessile or by short stipe, white tomentose at attachment and slightly on substrate.

Lamellae decurrent, close, narrow, white at first, slowly pale brownish (no R.), edges crenate under a lens.

Spore print about "cinnamon brown". Spores 4-5  $\mu$ , globose, often more or less pointed at the apiculate end and then more or less ovoid, punctate, ~~about "cinnamon brown" in deposits~~. Pleurocystidia none; cheilocystidia 27-40 x 5-10  $\mu$ , cylindric, at times slightly constricted, or bottle-shaped. Gill trama subparallel, hyphae 5-10  $\mu$  broad. Pileus trama interwoven. Cuticle repent, with scattered pilocystidia, 25-56 x 6-11  $\mu$ , clavate, at times subcapitate, cylindric, or ventricose. Clamp connections present.

This agrees well with material from Jossierand.

Gregarious, on rotten hardwood log. Conway State Forest, Franklin Co., Massachusetts, July 5, 1961. Coll. H.E. & M.E. Bigelow.

CREPIDOTUS APPLANATUS (~~var. nov?~~)

HEB #9728

*var. applanatus*  
76  
(herbarum?)

Pileus 2-10 mm. broad, suborbicular to petalloid in outline, convex with the margin incurved, even or very faintly pellucid striate; surface with short tomentum when young, becoming appressed, watery whitish to pale buff, opaque and white faded; flesh thin, white, soft, no odor or taste.

Lamellae adnexed, narrow, close, whitish for some time, slowly pale brownish, edges crenate.

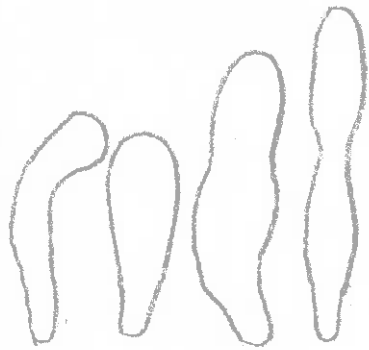
Stipe short, up to 3 mm., 2 mm. wide, lateral, marginate, tomentose to hirsute, solid, white.

*Pseudia?*  
Spores 4-5.4  $\mu$ , globose, punctate. Pleurocystidia none; cheilocystidia 27-43 x 7-10  $\mu$ , clavate, at times more or less constricted. Gill trama subparallel. Pileus trama interwoven. Cuticle repent, with scattered to somewhat gregarious pilocystidia which are clavate to cylindrical, at times capitate, 31-68 x 4-8  $\mu$ . Clamp connections present.

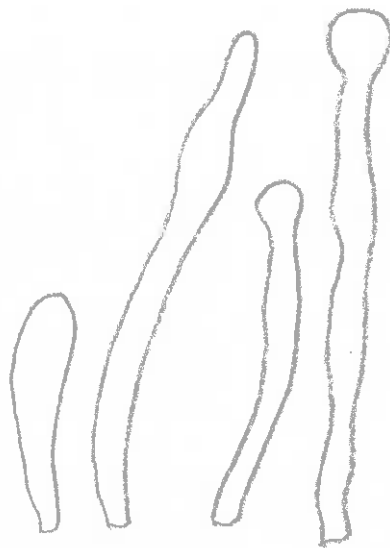
A form (variety?) of applanatus sensu Joss. In my tentative key to varieties (new?), it seems near Smith-13558 and Smith-26479.

Scattered to gregarious on rotten hardwood log. Mt. Toby, Leverett, Massachusetts, August 15, 1961. Coll. H. E. & M. E. Bigelow and F. Veale.

*Crepidotus applanatus* var. — ?  
Bigelow - 9728



Ch - x 1000



Pilo - x 1000

CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Joss.

(Bigelow-9907)

Leg. H.E.B., Whitingham, Vt., Sept. 30, 1961.

Spores 4-5.5  $\mu$ , globose, punctate. Cheilocystidia 32-43 x 5-9  $\mu$ , cylindric, clavate, ventricose. Cuticle repent, with scattered pilocystidia.

Agrees with Jossierand's material.

*angustatispora*  
CREPIDOTUS

(Bigelow-10156)

Abol Field, south of Baxter State Park, Piscataquis Co., Maine,  
leg. H.E.B., July 6, 1962.

Pileus 0.8-2.5 cm. broad, pale buff to white, matted-fibrillose at the margin to tomentose at the base.

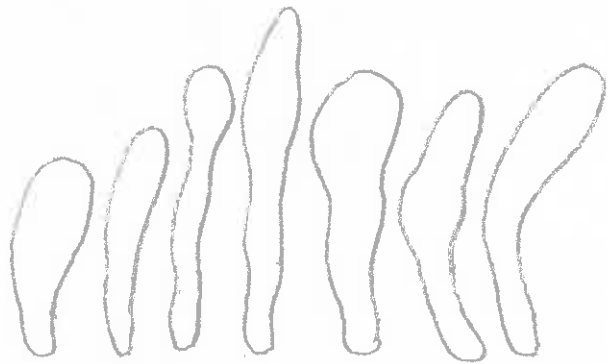
Lamellae close, narrow to moderately so.

Stipe none.

Spores 7-9 (9.5) x 4-5  $\mu$ , ~~subglobose~~ ellipsoid in face view, inequilateral in profile, faintly rough; pale yellowish-brown in 2% KOH. Basidia 25-31 x 5.5-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 28-46 x 6-10  $\mu$ , clavate to cylindric-capitate, or slightly ventricose. Gill trama subparallel to slightly interwoven, hyphae 5-11  $\mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae bearing, on the marginal half, a dense turf of slender (3-5  $\mu$ ), colorless hyphae, elsewhere with only scattered more or less erect hyphae. Clamp connections present.

This is close to or same as some 3 or 4 of Smith's collections--all undescribed I feel sure. ~~that have been~~  
~~in previous spores~~

*Prepidotus*  
(Bigelow - 10156)



Ch. x 1000

*fusiformis* var *fusiformis*  
CREPIDOTUS Bigelow-10194 (=H-25471)

Solitary, scattered, gregarious (imbricate) on hardwood twigs. Near Katahdin Stream Campground, Baxter State Park, Maine, July 10, 1962. Coll. H.E. & M.E. Bigelow. Photo.

Pileus 8-23 mm. broad, suborbicular, dimidate, margin incurved young, horizontal when expanded, sometimes partially resupinate but mostly reflexed, often lobed, white, tomentose to villose; flesh thin, soft, no odor or taste.

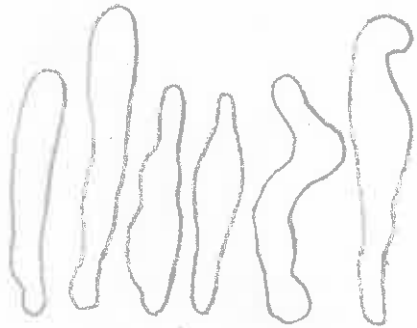
Lamellae radiating from tomentose white tubercle, close, moderately broad (< 2 mm.), tubercle lateral or eccentric, rounded near tubercle, acute near margin, edges rather undulate, fimbriate, light brown (nearest "cinnamon buff" to "sage brown" but paler).

Spores 6-9 (10) x 3.5-4.5  $\mu$ , fusoid, inequilateral in profile, punctate (usually obscure), pale when single, brownish in clumps. Basidia 25-32 x 6-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 28-<sup>45</sup>~~43~~ x 5-8  $\mu$ , clavate, <sup>at times slightly</sup> ~~weak~~ crooked and irregular. Gill trama subparallel to slightly interwoven, hyphae 5-8  $\mu$  broad. Pileus trama densely interwoven. Cuticle of repent hyphae with scattered, more or less erect hyphae or in a tangled turf, hyphae 2.5-4  $\mu$  broad. Clamp connections present.

This is near Bigelow-8576, but has longer, ~~more~~ distinctly fusoid spores, and with some irregular cheilocystidia.

C. betulae Murr. has a gelatinous cuticle, and <sup>smooth</sup> ~~smooth~~, ellipsoid spores.

*Prepidotus* Bigelow - 10194



Ch - x 1000



*amygdaliform*  
CREPIDOTUS Bigelow-10337 *Capitellae*

On hardwood, Abol Field, south of Baxter State Park, Piscataquis Co., Maine, leg. H.E.B., July 18, 1962.

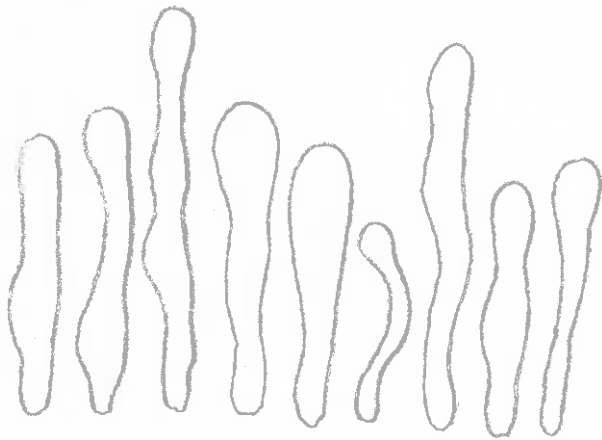
Pileus up to 3 cm. broad, white tomentose, margin inrolled, even.

Lamellae narrow, close.

Spores 7.5-9 x 4.3-5  $\mu$ , ellipsoid, ~~to somewhat fusoid~~, inequilateral in profile, punctate, at times obscurely so, pale yellowish-brown. Basidia 21-27 x 5-6  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 28-52 x ~~4-7 x 5-6 x 5-9  $\mu$~~  <sup>5-9  $\mu$</sup> , clavate, cylindric, at times slightly capitate, or ventricose. Gill trama interwoven, hyphae 5-9  $\mu$  broad. Subhymenium of narrow (4-6  $\mu$ ), parallel hyphae which form a zone 25-35  $\mu$  broad. Pileus trama densely interwoven, resembling gill trama. Cuticle only slightly differentiated; hyphae at the surface a tangled turf, colorless, 2.5-4  $\mu$  broad. Clamp connections present.

Near Smith-63587, which is glabrous, and Bigelow-8232.

*Orepidotus* Bigelow - 10337



Ch - x 1000

*Stande*  
*var. mollis*  
CREPIDOTUS MOLLIS (Fr.) ~~Kummer~~ - HEB #10569

(Same as Bigelow-10624)

Pileus 1.5-5.5 cm. broad, flabelliform or spatulate, margin narrowly decurved, even, undulate or lobed in age, surface watery brown moist (near "snuff brown") fading to pale buff ("warm buff"), covered with fibrillose scales ("tawny" or "ochraceous tawny"), densest toward point of attachment; flesh thin, watery pallid, pliant, no odor or taste; umbonate behind at times.

Lamellae adnate or short decurrent to point of attachment, radiating, soft, close to crowded, narrow to moderately broad (< 4 mm.), acute at both ends, brown ("cinnamon brown" or "verona brown" nearest), edges even and slightly undulate.

Spore print "bister". Spores 7.5-9 x 5-5.7  $\mu$ , ellipsoid, inequilateral, smooth. Basidia 27-32 x 5.5-7.5  $\mu$ , 4-spored (occasionally 2-spored). Pleurocystidia none; cheilocystidia 30-60 (100) x 4-10 x 2.5-3  $\mu$ , bottle-shaped, slender-ventricose, to filamentous (longer ones tramal), often gelatinous. Gill trama of short, broad (6-10  $\mu$  or more) cells, subparallel. Pileus trama interwoven. Cuticle a gelatinous zone, 200-300  $\mu$  thick, surmounted by tufts of brown, incrustated, septate hyphae (scales), 5-11  $\mu$  broad. Clamp connections broad.

The narrow gills suggest C. mollis; but the dense, fibrillose scales suggest fulvotomentosus (Pk.) Pk. For now, take your choice; a decision on the distinction between mollis and fulvotomentosus has to be made, later. Pilát would call your 10624 and 10569 C. mollis var. calolepis, but I do not accept this variety name yet.

Gregarious to imbricate on hardwood log, Woods on Rt. 11, about 15 miles SW of Millinocket, Penobscot Co., Maine (near county line), July 27, 1962. Coll. H.E. & M.E. Bigelow.

Bigelow-10624, near Norcross, Penobscot Co., Maine, leg. H.E.B., July 30, 1962 is the same.

*Cystidiosus*  
CREPIDOTUS ~~MALACHIUS~~ ~~10570~~

(Bigelow-10570)

Pileus 2.5-5.5 cm. broad, flabelliform to reniform, applanate or slightly depressed at point of attachment, long striate, glabrous, watery "pale drab gray", hygrophanous, fading to white and opaque; flesh thin, soft, watery concolorous and fading with cap, no odor or taste.

Lamellae radiate from pubescent white tubercle, close, soft, broad (< 7 mm.), pale gray-brown (nearest "wood brown"), edges even and undulate, rounded behind, acute at margin.

Spore print "snuff brown". Spores 5-7 x 5-6  $\mu$ , globose to subglobose, punctate, wall double, "snuff brown" in deposits. Basidia 25-33 x 6-7  $\mu$ , 4-spored. Pleurocystidia 34-52 x 7-10  $\mu$ , clavate, apices rounded or, at times, mucronate; cheilocystidia 25-48 x 5-7  $\mu$ , clavate, cylindric-clavate, at times more or less capitate. Gill trama subparallel, hyphae 4-6  $\mu$  broad. Pileus trama interwoven, at times somewhat vesiculose. Cuticle repent, no pilocystidia found. Clamp connections present.

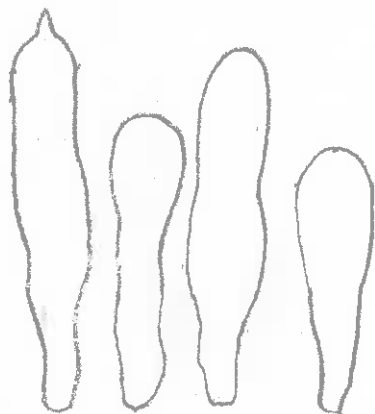
This is C. malachus (B. & C.) Sacc. with pleurocystidia. But, malachus (type) has no pleurocystidia. Now, what? (var. cystidiosus var. nov?)

Gregarious on hardwood log. Woods off Rt. 11, about 15 miles SW of Millinocket, Penobscot Co., Maine (near county line), July 27, 1962. Coll. H.E. & M.E. Bigelow.

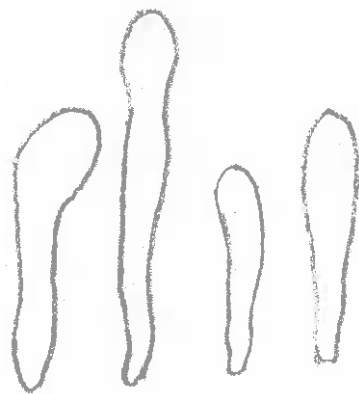
(cf. card 10571)

*Grepidotus cytidiasus* sp. nov.

Bigelow - 10570



Pl. - x 1000



Ch. - x 1000

*Confertus cf. nov*  
CREPIDOTUS ~~APPLANATUS (Fr.) Kummer sensu Jossierand~~

HEB #10571

Pileus 1.8-3.7 cm. broad, petaloid to spathulate, glabrous except at vicinity of attachment where white pubescent, usually convex, striate, watery "tilleul buff" to "vinaceous buff" moist; flesh thin, soft, watery pallid, no odor or taste.

Lamellae adnate to decurrent on pubescent tubercle, radiate, crowded to close, narrow (< 2 mm.), a pale "mikado brown", edges crenate.

Spore print "cinnamon brown". Spores 4.3-5.4  $\mu$ , globose to subglobose, punctate. Basidia 18-23 x 5-6  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 36-45 x 6-9 x 6-8  $\mu$ , cylindric and more or less capitate, obclavate, ventricose. Gill trama sub-parallel, hyphae 5-9  $\mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae, with scattered, colorless, clavate pilocystidia, 33-48 x 8-10  $\mu$ . Clamp connections present.

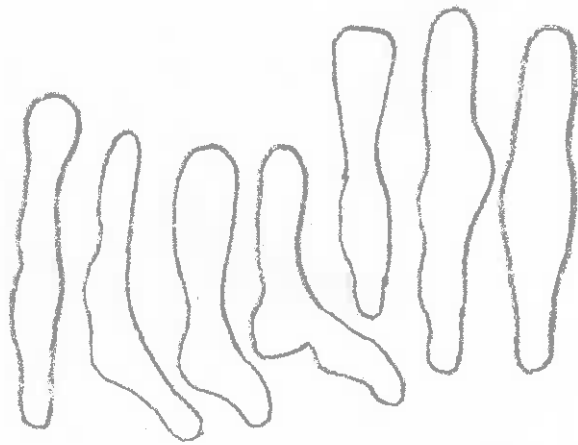
Agrees with Jossierand's material.

Solitary, scattered, or imbricate on hardwood log. Woods off Rt. 11, about 15 miles SW from Millinocket, Penobscot Co., Maine (near county line), July 27, 1962. Coll. H.E. & M.E. Bigelow.

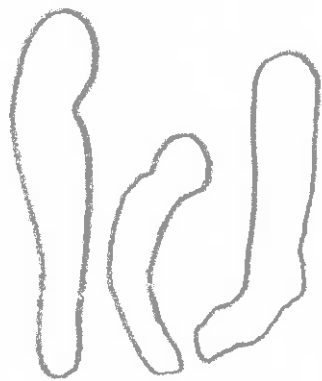
(cf. card 10570, this one somewhat darker and definitely narrower at point of attachment.)

*Crepidotus applanatus* (Fr.) Kummer  
~~sensu Joss.~~ confertus sp. nov.

Bigelow - 10571



Ch - x 1000



Pils - x 1000



*var. applanatus*  
*penic*  
CREPIDOTUS APPLANATUS ~~SARS~~ Josserand

(Bigelow-10572)

15 mi. S.W. of Millinocket, on Rt. 11, Penobscot Co., Maine, leg. H.E.B.,  
July 27, 1962.

Spores 4-5.5  $\mu$ , globose, punctate. Agrees with Josserand's material.

*var. applanatus*  
CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Josserand

(Bigelow-10573)

Millinocket, 15 mi. SW, on Rt. 11, Penobscot Co., Maine,  
leg. H.E.B., July 27, 1962.

This is the same as Bigelow-9467 (see notes there). The  
pleurocystidia are less numerous than in 9467.

*applanatus* var. *diversus*  
CREPIDOTUS Bigelow-10595

(Bigelow says: see card 10571)

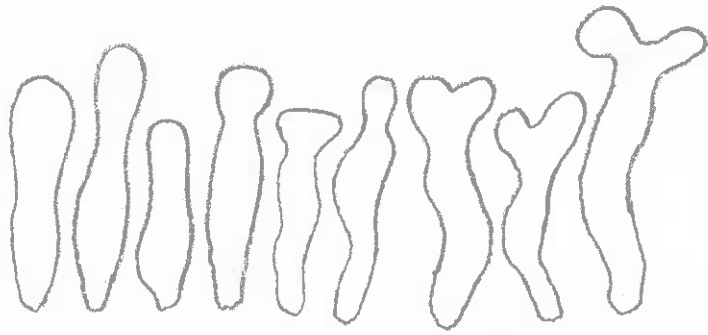
*But this is different.*

E. Millinocket, Rt. 157, Penobscot Co., Maine, leg. H.E.B., July 29, 1962.

Spores 4.2-5.4  $\mu$ , globose, punctate. Basidia 21-26 x 5-6  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 25-42 x 4-8 x 4-5 x 5-9  $\mu$ , clavate, at times capitate, cylindric, ventricose, apices obtuse or truncate, or forked. Gill trama subparallel, hyphae 5-11  $\mu$  broad. Pileus trama interwoven. Cuticle repent, bearing numerous, more or less gregarious, pilocystidia which are erect, cylindric, ventricose, the apices capitate or obtuse, frequently forked, 24-130 x 6-10  $\mu$ . *Clamps present.*

This is applanatus except for the forked cheilocystidia and pilocystidia which I have not seen in other collections. Perhaps a new variety (?)

*Grepidotus applanatus* var. — ?  
Bigdon - 10595



Ch - x 1000



Pilo - x 1000

*var. applanatus*  
CREPIDOTUS APPLANATUS sensu Josserand

(Bigelow-10625)

On hardwood, near Norcross, Penobscot Co., Maine, leg. H.E.B., July 30, 1962.

Spores 4-5.2  $\mu$ , globose, punctate. Pilocystidia 30-80 x 6-7  $\mu$ , scattered. Agrees with Josserand's material.

*creophilus*  
CREPIDOTUS DORSALIS (Pk.) Sacc.

HEB #10639

Pileus 2 cm. broad, reniform in outline, depressed near tubercular attachment, matted fibrillose and dull, dingy "light buff", tubercle strigose, and ochraceous buff to yellow.

Lamellae close, broad (4 mm.), alutaceous, edges fimbriate.

Spores 5-6.5 (7)  $\mu$ , globose to subvoid, punctate, often flat-sided. Basidia (15) 20-27 x 5-6  $\mu$ , clavate, absent in many sections. <sup>ch.</sup> Gill trama subparallel, hyphae 5-9 (12)  $\mu$  broad.

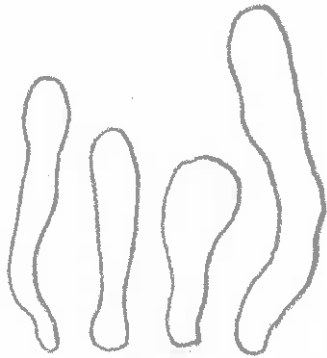
<sup>^</sup> Pileus trama interwoven. Cuticle a narrow zone of dingy-brown, interwoven hyphae bearing a conspicuous turf (trichodermium) of: (a) narrow (2-4  $\mu$ ) colorless, non-incrusted hyphae; and (b) broad (4-10  $\mu$ ) hyphae which are either colorless and non-incrusted, or brown and incrusted. Clamp connections on all epicuticular hyphae.

There is evidence that in dorsalis the color of the pileus varies from reddish-yellow (acc. to Peck), to chestnut, light buff, tawny-yellow, etc.

Hardwood branch on ground. Woods near Norcross, off Rt. 11, Penobscot Co., Maine, July 30, 1962. Coll. H. E. & M. E. Bigelow.

*Crepidotus dorsalis* (PK.) (acc.)

Bigelow - 10639



Ch - x 1000

*neptuloides*  
CREPIDOTUS FULVIFIBRILLOSUS Murr.

(Bigelow-10766)

Ragged Mt., Penobscot Co., Maine, leg. H.E.B., Aug. 5, 1962.

Pileus 6-6.5 cm., reniform, overlapped behind, watery-pallid, then white with brown fibrillose scales behind or over all, short striate.

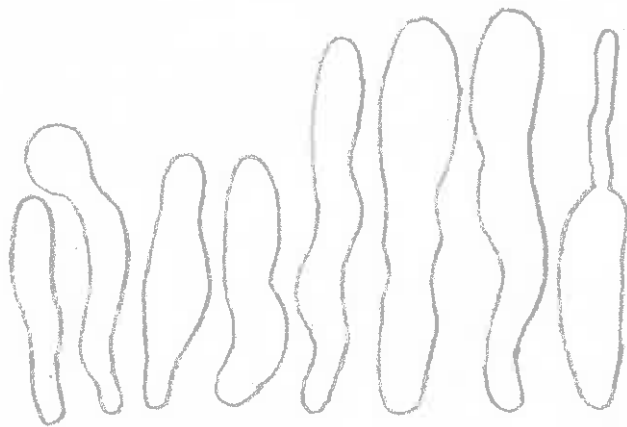
Lamellae close or crowded, narrow in front, medium broad behind.

Stipe none.

Spores 4.5-6  $\mu$ , globose, punctate, in deposit: near "Saccardo's umber." Basidia 23-28 x 5-6  $\mu$ , 4-spored. Pleurocystidia; cheilocystidia 31-54 x 5-10  $\mu$ , cylindric, at times subcapitate, clavate, ventricose, more rarely with a slender neck. Gill trama subparallel, hyphae 4-9  $\mu$  broad. Pileus trama interwoven and more or less vesiculose. Cuticle a dense, dingy zone, 30-40  $\mu$  thick, of interwoven hyphae, bearing a turf composed of brown, sometimes incrusted hyphae, 6-10  $\mu$  broad, and colorless, non-incrusted hyphae, 2-5  $\mu$  broad. Clamp connections present.



*Pepidotus fulvifibulosus* Murr.  
Bigelow - 10766



Ch. - x 1000

CREPIDOTUS CROCOPHYLLUS (Berk.) Sacc. - HEB #10774

Pileus 2 cm. broad, convex, outline suborbicular, margin incurved, surface dry, villose, "tawny" to "russet"; flesh thin, white, no odor or taste.

Lamellae radiate from white strigose tubercle, close, moderately broad (3 mm.), "ochraceous buff", edges fimbriate.

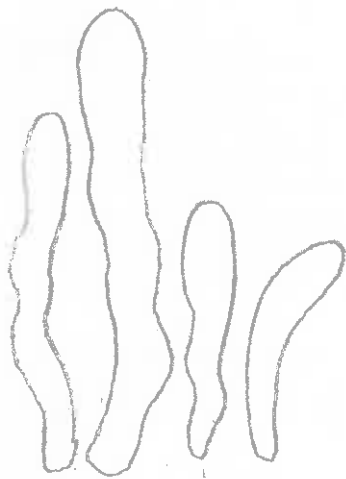
Laterally attached, stipe merely a hairy tubercle.

Spores 4.5-6 (6.5)  $\mu$ , globose, punctate. Basidia 25-32 x 6-7  $\mu$ , 4-spored. Pleurocystidia none; cheilocystidia 32-58 x 5-8  $\mu$ , cylindric or clavate. Gill trama subparallel, hyphae 4-7  $\mu$  broad. Pileus trama more or less vesiculose. Cuticle of repent hyphae bearing a dense turf of mostly brown, hyphae, 7-10  $\mu$  broad, many incrusted; and a few colorless, non-incrusted hyphae, 3-6  $\mu$  broad. Clamp connections present on both the brown and colorless epicuticular hyphae.

Gregarious on hardwood log. Ragged Mt., Indian Purchase T-4, Penobscot Co., Maine, August 5, 1962. Coll. H.E. & M.E. Bigelow.

*Ophidostus crocophyllus* (Berk.) Jacc.

Bigelow - 18774



ch - x 1000



Brown (some incrusted) hyphae - \* 1000

*var. malachius*

CREPIDOTUS MALACHIUS (B & C) Sacc.

(Bigelow-111145)

near Norcross, Penobscot Co., Maine, leg.  
H.E.B., Aug. 18, 1962.

Pileus 1.5-5 cm. broad, watery white, darkening to  
avellaneous, fading to white and opaque, striate.

Lamellae close, broad.

Spores 5.3-7  $\mu$ , globose, punctate. Basidia 28-36 x 6-7 (9)  $\mu$ ,  
4-spored. Pleurocystidia none; cheilocystidia 32-45 x 6-9  $\mu$ ,  
clavate to slightly ventricose, at times more or less capitate.  
Cuticle of repent hyphae. Clamp connections present. Lactifers  
in the pileus and gill trama.

*Not Crepidotus (?)*

CREPIDOTUS Bigelow-11244

On burned conifer stump, Abol Field, near Baxter State Park, Piscataquis Co., Maine, leg. H. E. Bigelow, Aug. 23, 1962.

Pileus 1.5-5 cm. broad, concave to convex with strongly incurved and inrolled margin, incurved at least when expanded, dry, tomentose to hirsute, not striate, lobed at times, "pale orange-yellow", with scattered brownish fibrillose scales; flesh whitish, thin, no odor or taste, pliant; cap margin vinaceous brown when hairs appressed.

Lamellae crowded, forked, anastomosed, sides venose, narrow (< 1.5 mm.), "capucine buff", edges even.

No stipe, cap attached laterally.

Spores 3.7-4.6 x 3.2-3.6  $\mu$ , ellipsoid, smooth, colorless singly in 2% KOH but pale yellowish in groups, near "yellow ocher" in mass (?-Is the color of the spore-deposit from spores, or stain from the pileus & gills?). Basidia 17-20 x 3.5-5  $\mu$ , 4-spored. Pleurocystidia and cheilocystidia none. Gill trama slightly interwoven. Cuticle repent, not sharply differentiated from the trama, with brownish tufts of hyphae (not incrustated). Clamp connections present.

The spores and lack of cheilocystidia cause me to guess that this is not a Crepidotus. It might be hidden away under Pleurotus or Pleurotellus. In any event, it cannot be C. dorsalis which has globose, punctate spores, conspicuous cheilocystidia, and incrustated brown hyphae on the pileus. Likewise, it is not C. croceitinctus.

*near affinis*  
CREPIDOTUS APPLANATUS (Fr.) Kummer

(Bigelow-11314)

Off Rt. 157, E. Millinocket, Penobscot Co., Maine, leg. H.E.B.,  
Aug. 26, 1962.

Pileus flabelliform, white at first, darkening to "tilleul buff" or "vinaceous buff," white when faded, faintly striate.

Lamellae narrow, close or crowded.

Lateral tubercle tomentose.

Spores 4.2-5 (5.5)  $\mu$ , globose, punctate. Basidia 23-28 x 5-6  $\mu$ . Pleurocystidia none; cheilocystidia 30-46 x 6-8  $\mu$ , cylindric, clavate, or ventricose. Gill trama subparallel, 5-11  $\mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae, bearing erect pilocystidia 42-65 x 4-9  $\mu$ , filamentous to clavate, ventricose, or slightly irregular. Clamp connections present.

Agrees very well with Jossierand's material.

*var applanatus*  
CREPIDOTUS APPLANATUS (Fr.) Kummer sensu Josserand

(Bigelow-11328)

On birch log, Upper Tague Pond, Pisataquis Co., Maine, leg.  
H.E.B., Aug. 27, 1962.

Pileus up to 2.7 cm. broad, flabelliform to reniform,  
whitish at first, then "avellaneous," white when faded, long  
and finely striate.

Lamellae close, narrow.

Stipe evident at first (on lower surface) but soon obsolete  
and attached by a small tomentose tubercle.

Spores 4.5-5.5 ~~4.5~~  $\mu$ , color in mass: "Saccardo's umber,"  
globose, punctate. Characters agree with those of Josserand's  
material.

*var. globigera (Pers.) Racc*

CREPIDOTUS APPLANATUS (Fr.) Kummer

(Bigelow-11541)

Katahdin Lake trail, Baxter State Park, Maine,  
leg. H.E.B., Sept. 6, 1962.

Pileus 1-3.5 cm. broad, plane, pale avellaneous to tulleul  
buff, glabrous, elliptic, spathulate, petaloid, finely striate.

Lamellae decurrent, close or crowded, moderately ~~wide~~ <sup>narrow.</sup>

*Pseudostipe*

~~Stipe~~ more or less 5 x 3 mm., lateral, pallid tomentose.

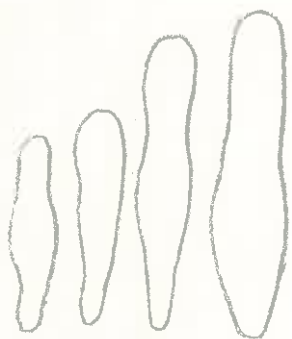
Spores 4.5-6 (7)  $\mu$ , globose, punctate. Basidia 24-32 x  
6-8  $\mu$ , 1-2-4-spored. Pleurocystidia none; cheilocystidia 24-43 x  
6-10  $\mu$ , clavate, ventricose. Gill trama subparallel, hyphae  
4-10  $\mu$  broad. Pileus trama interwoven. Cuticle of repent hyphae,  
with scattered pilocystidia, cylindric, ventricose, bottle-shaped,  
28-44 x 4-8  $\mu$ . Clamp connections present, few.

This is the same as Jossierand's applanatus except that the  
range in spore-size is greater (Jossierand's: 4.3-5.5  $\mu$ ). Jossierand  
says the stipe may be present or absent.

This may be Kauffman's stipitatus, which he says has smooth  
spores. I have not seen Kauffman's type.

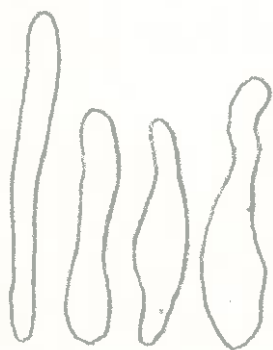


*Orepidotus applanatus* (~~Fr.~~) Kummer  
Bigelow - 11541 var. *globigera* (Berk.)  
Sacc.



Ch - x 1000

Ch



Gilo - x 1000