## Macro Fungi Collection

(Student name is redacted)

Biology of Fungi (PBIO177)
The University of Vermont
Fall, 2021

## **Table of Contents**

Your Name	Date collected	Location collected	Specimen	Genus	species	Common Name	Specimen number
	9/13/21	Niquette Bay State Park	1	Suillus	americanus	American Slippery Jack	01_MT_091421
	9/27/21	Sunny Hollow, Colchester VT	2	Hygrocybe	flavenscens	Golden Waxcap	02_MT_092821
	10/11/21	La Platte River, Shelburne VT	3	Gymnopilus	luteus	Yellow Gymnopilus	03_MT_101221
	10/11/21	La Platte River, Shelburne VT	4	Clitocybe	robusta	Robust Clitocybe	04_MT_101221
	10/11/21	La Platte River, Shelburne VT	5	Lactarius	deliciosus	Saffron Milk Cap	05_MT_101221
	10/4/21	Eastwoods Natural Area	6	Amanita	citrina	False Deathcap	06_MT_100521
	10/25/21	UVM Hort Farm, South Burlington VT	7	Mycentinis	scorodomnius	Garlic Marasmius	07_MT_102621
	11/1/21	Niquette Bay State Park	8	Pholiota	limonella		08_MT_110221
	11/1/21	Niquette Bay State Park	9	Hypholoma	lateritum	Brick Cap	09_MT_110221
	11/1/21	Niquette Bay State Park	10	Armillaria	mellea	Bootlace Fungus	10_MT_110221
	11/8/21	Red Rocks Park, South Burlington	11	Tricholoma	myomyces	Grey Knight	11_MT_110921
	11/8/21	Red Rocks Park, South Burlington	12	Pleurotus	ostreatus	Oyster Mushroom	12_MT_110921
	10/11/21	La Platte River, Shelburne VT	13	Lepista	nuda	Blewit	13_MT_101221
	11/15/21	Lone Rock	14	Tyromyces	chioneus	White Cheese Polypore	14_MT_111621
	11/15/21	Lone Rock	15	Coprinellus	micaceus	Mica Cap	15_MT_111621

## Suillus americanus American Slippery Jack



Fig 1A. *S. americanus* specimen recovered from ground under white pine. Exterior is yellow and surface is viscid to glutinous when moist.



Fig 1B. *S. americanus* gill structure. Irregular to maze like pattern. Spores 1-2 mm wide. Pore surface yellow when young and browns with age

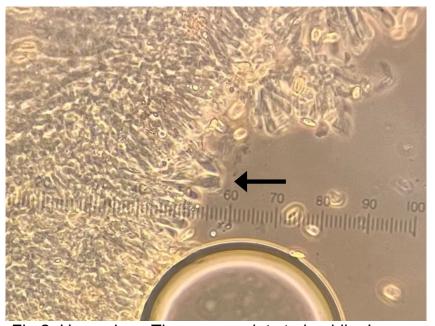


Fig 2. Hymenium. The arrow points to basidia. Image was taken at 100x. Scale bar = 2 uM



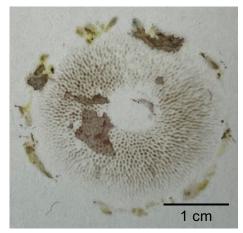


Fig 4. Spore deposit. Color is brown.

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Fig 3. *S. americanus* in nature.

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## Hygrocybe flavenscens Golden Waxcap



Figure 1A. H. flavenscens convex cap that is yellow and ages to orange-yellow. A tapering stipe that fades to white.



Fig 1B. Close to near distant attached gills. Frequent short gills.

Fig 2. Found in woods under

hardwoods or

conifers.



Fig 4B. Spores are



smooth and ellipsoid. Spores are  $4.5 - 6 \mu$ .

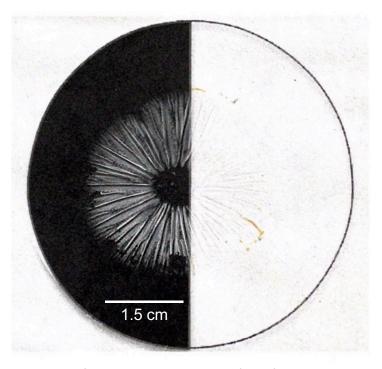


Fig 3. A white spore print is produced.

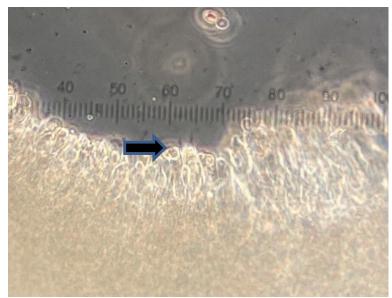


Fig 4A. Hymenium. Arrow points to basidium. Image taken at 100x. Basidium is 40 µ. Scale bar = 5 uM.

02 MT 092821 **UVM Macrofungi** 

## **Gymnopilus luteus** Yellow Gymnopilus



Fig 1A. *G. luteus* cap ranges 2-10 cm. Yellow to orange-yellow cap occasionally with scales over center. Stipe is colored like cap.



Fig 2. Found on decaying hardwood, saprobic.
Grows alone or in clusters



Fig 1B. Partial veil leaves ring on stipe. Gills broadly attached to stipe, yellow and ages to rust.

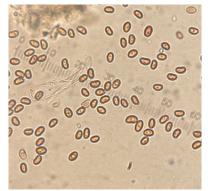


Fig 4B. Spores 6-9 x 4.5-  $5.5 \mu$ . Warty, elliptical; dextrinoid

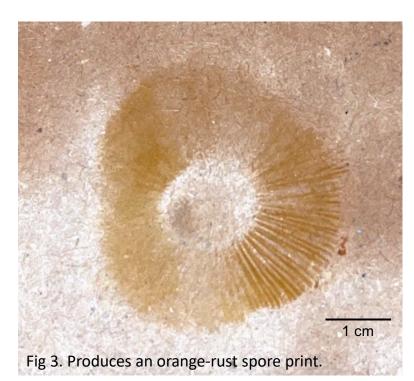


Fig 4A. The arrow shows the basidium on the hymenium. Taken at 100x. Scale bar = 2 uM

# *Clitocybe robusta*Robust Clitocybe



Fig 1A. Cap ranges from 3-17 cm. Convex, flat cap. Stipe 4-10 cm long, enlarged downwards



Fig 1B. Gills are crowded and broadly attached to the stipe.



Fig 2.
Saprobic, growing in disturbed areas. Grows in clusters.

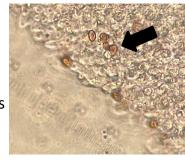
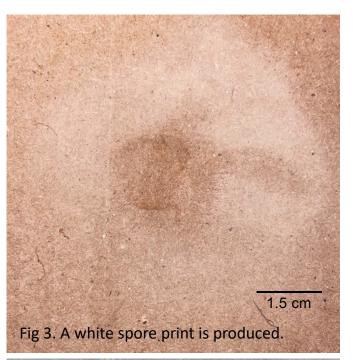


Fig 4B. Spores 5-8 x 3-5 μ; elliptical; smooth; inamyloid



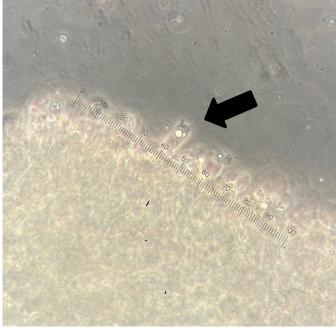


Fig 4A. The arrow shows the basidium on the hymenium. Taken at 100x. Scale bar = 2 uM

## Lactarius deliciosus Saffron Milk Cap



Fig 1A. Convex the depressed cap, reddish-orange, bruising bluish-green.



Fig 1B. Gills are decurrent and crowded. Gills release a wine colored latex.

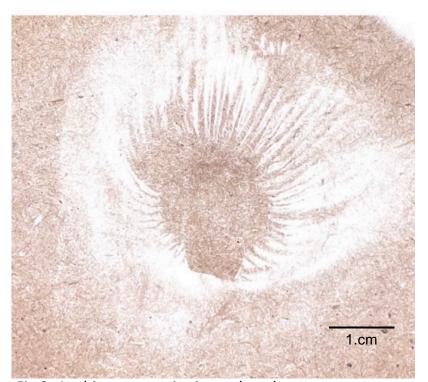


Fig 3. A white spore print is produced.



Fig 2. Mycorrhizal, in coniferous woodland, particularly pines

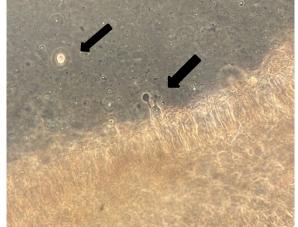


Fig 4B. A basidium with spores on the sterigmata. Spores 7.5-9 X 6-7  $\mu$  (left arrow); elliptical; smooth.

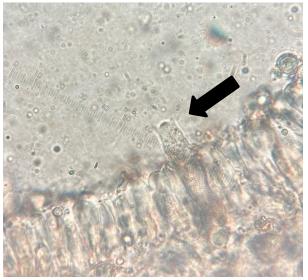


Fig 4A. The arrow shows the basidium on the hymenium. Taken at 100x. Scale bar = 2 uM 05\_MT\_101221

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## Amanita citrina False Deathcap



Fig 1A. Cap fades quickly, near white. Scattered grayish patches. Rimmed basal bulb. Annulus and volva present. Stipe is 4-9 cm



Fig 1B. Gills are crowded and free from stipe.



Fig 2 (left). Mycorrhizal with hardwoods and conifers. Grows alone and scattered.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Smaller arrow shows the spores. Spores are 6.5-9  $\mu$  and globose. Magnified at 100x. Scale bar = 2 uM

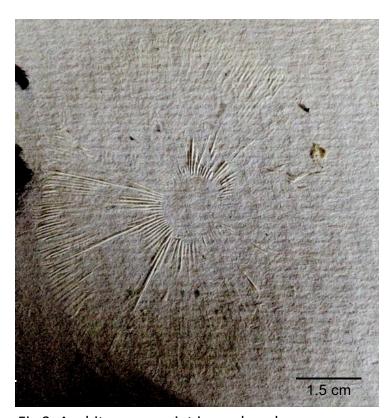
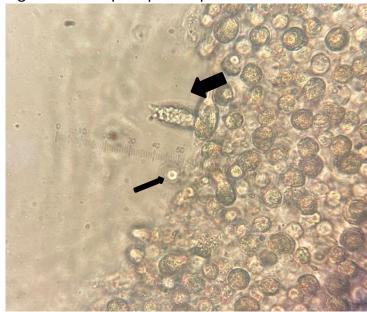


Fig 3. A white spore print is produced.



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## Mycetinis sorodonius

#### Garlic Marasmius





Fig 1A. Cap is 2-20mm. Broadly convex, forming a central depression. Medium brown fading to pale tan. Stipe is up to 60mm. Dry and shiny.





Fig 1B. Gills are narrowly attached to stipe. Close to near distant

Fig 2 (left). Primarily found in fallen needles, but also found on mossy bark of living conifers.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Smaller arrow shows the spores. Spores are  $6-10 \times 3-5 \mu$ ; smooth; pipshaped or ellipsoid Magnified at 100x.

Scale bar = 2 uM

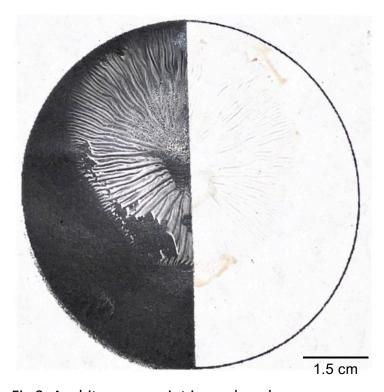
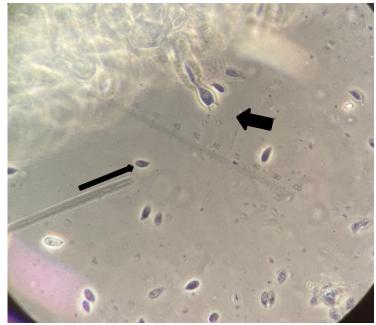


Fig 3. A white spore print is produced.



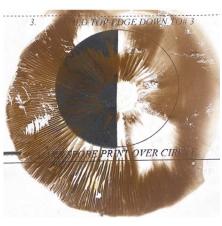
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#### Pholiota limonella









3 cm

Fig 1A. Cap 3-13cm, convex. Slimy orange, brownish. Covered in reddish scales. Stipe 4-15cm, 2cm thick. Annulus ring present. Yellowish scales.

Fig 1B. Gills attached to stipe, close. Yellowish to white then maturing to rust brown. Partial veil present when young

Fig 3. A brown spore print is produced.



Fig 2 (left). Saprobic and possibly parasitic. Grows in clusters on living or dead logs. Widely distributed in North America, summer and fall.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Spores present on the sterigmata. Smaller arrow shows the spores. Spores 6-9 x 4-5.5  $\mu$ ; smooth.

Magnified at 100x. Scale bar = 2 uM

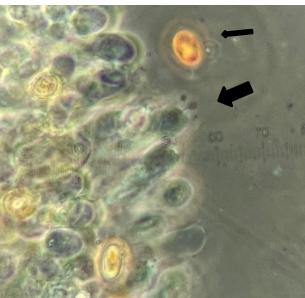




Fig 5 (above). Basidium with no spores on sterigmata.

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### Hypholoma lateritum

Brick Cap



Fig 1A. Brick red cap 3-10cm, convex to flat. Paler pinkish on the margins. Stipe 4-12cm, 1-2cm thick. Equal to tapering at the base. Yellow fading to reddish brown.





Fig 1B. Gills attached to stipe, close to crowded. Cover by whoite veil when young. Pale grey to dark purple

Fig 2 (left). Grows in clusters on decaying hardwood.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Smaller arrow shows the spores.  $6-7 \times 3-4 \mu$ ; ellipsoid; smooth; thin-walled; with an obscure pore; yellowish in KOH Magnified at 100x. Scale bar = 2 uM

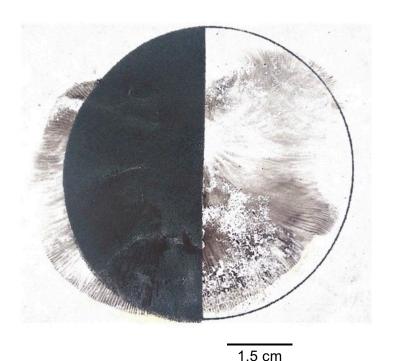
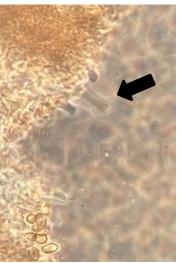


Fig 3. A purple spore print is produced.





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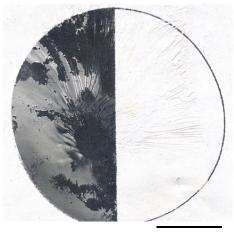
#### Armillaria mellea

Bootlace Fungus









1.5 cm

Fig 3 (above). A white spore print is produced.

Fig 1B (left). Gills attached and beginning to run down, close Whitish, discoloring to pinkish yellow. White atrial veil

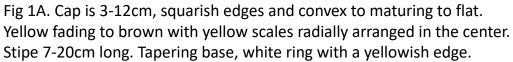
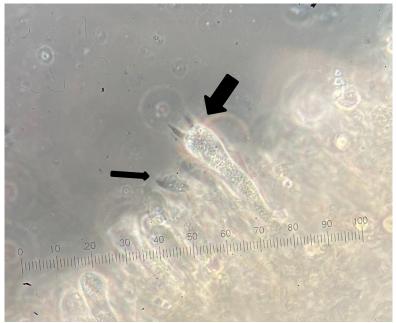




Fig 2 (left). Pathogenic and parasitic on hardwoods.
Appears in large clusters after heavy fall rain.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Smaller arrow shows the spores. Spores are  $6.5-9 \mu$  and globose. Magnified at 100x. Scale bar =  $2 \mu$ 



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# Tricholoma myomyces Grey Knight



Fig 1A. Cap 1-4cm, convex to bell-shaped and dry. Wooly margin when young, becoming finely scale pale grey. Stipe 2-4cm, whiteish and finely silky.



Fig 1B. Gills attached by a notch. Short gills frequent, white.



Fig 2 (left). Mycorrhizal with eastern white pines. Grows gregariously in November.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Smaller arrow shows the spores. Spores 5–8 x 3.5–4.5  $\mu$ m; long-ellipsoid; Magnified at 100x. Scale bar = 2 uM

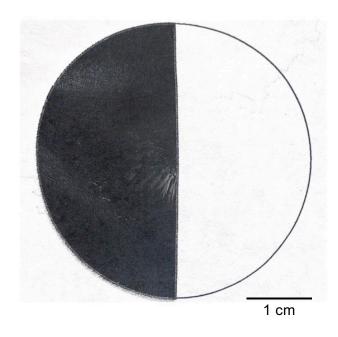


Fig 3. A white spore print is produced.



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Pleurotus ostreatus
Oyster Mushroom



Fig 1A. Cap 3-15cm, broadly convex. Pale to dark brown, fading to buff. Margins somewhat in rolled when young. Stipe is lateral.



Fig 1B. Gills are running down the stipe. Close, short gills present. White with a yellow tinge with age.



Fig 2 (left). Saprobic, growing in shelf-like clusters. Dead and living trees, primarily hardwoods. Late fall to early spring.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Smaller arrow shows the spores. Spores are Spores 7–11 x 2–4  $\mu$ m and smooth. Magnified at 100x. Scale bar = 2  $\mu$ M

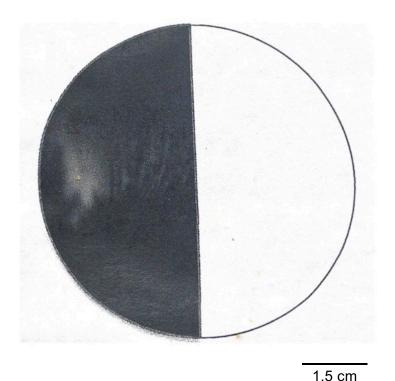
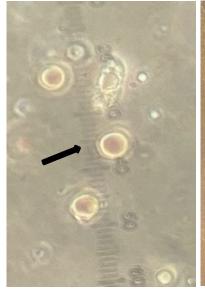
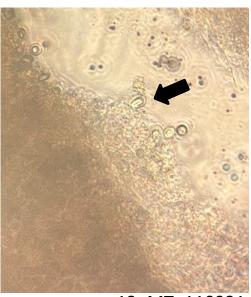


Fig 3. A white, faintly lilac spore print is produced.





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#### Lepista nuda

#### **Blewit**



Fig 1A. Cap 4-20cm, convex with in rolled margins becoming flat and wavy with age. Dull purple. Stipe 3-10 cm, 1-3 cm thick. Dry and finely hairy.



Fig 1B. Gills are attached, sometimes notched. Pale lavender, close to crowded.



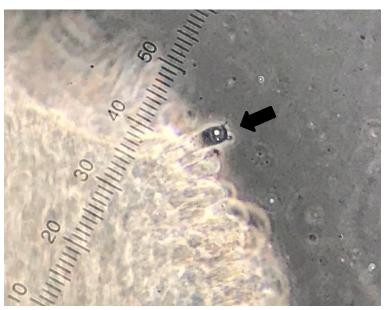
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Fig 2 (left). Saprobic, grows alone, scattered, and gregariously in organic debris. Late summer to fall.

Fig 4 (right). Larger arrow shows the basidium on the hymenium. Spores  $5.5-8 \times 3.5-5 \mu$ ; ellipsoid; roughened or sometimes smooth. Magnified at 100x. Scale bar =  $2 \mu$ 



Fig 3. A white to pinkish spore print is produced.



## Tyromyces chioneus

## White Cheese Polypore

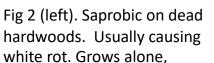


Fig 1A. Cap can be 12 cm across and 8 cm deep. Convex, kidney shaped. Veltvety to bald with age. Crusty surface develops with age.





Fig 1B. Pores are 8mm deep and 3-5 per mm. White becoming yellow with age. A white spore print is produced



summer to fall.

Fig 4 (right). Image from https://mushroomobserver.or g/observer/show\_observatio n/158132. Spores are 4-5 x 1.5-2 μ; smooth; cylindric to slightly allantoid Magnified at 100x. Scale bar =10μM





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### Coprinellus micaceus

Mica Cap



Fig 1A. Cap is 2-5cm, oval then expanding broadly convex with age. Margins are often curled or tattered. Honey brown to amber.



Fig 1B. Stipe 2-8cm long, 2-6cm thick. Very finely fibrous, white and hollow. Gills are attached or free. Ranging from pale brown to brown then to black. Deliquescing.

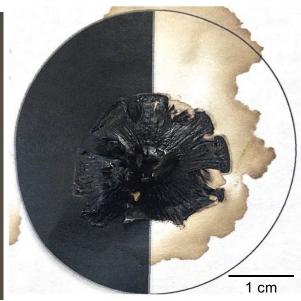


Fig 3. A black spore print is produced.



Fig 2 (left). Mycorrhizal with hardwoods and conifers. Grows alone and scattered.

Fig 4 (right). Image by Michael Kuo. Cheilocystidia is elliptical. Not pictured is the basidia which is 4 spored. Surrounded by 3-6 branchybasidia. Spores 7-11 x 4-7  $\mu$ ; subelliptical. Magnified at 100x. Scale bar = 2 uM



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