Supplementary Material

Supplementary File S1. **Identification Sheets**

Taxonomic names and descriptive terminology were standardized to improve correspondence with the main manuscript and Supplementary Table S2. Species-level names should be interpreted together with the morphological evidence presented here and the ITS barcode information provided in Supplementary Table S2.
The numbering follows the internal order of Supplementary File S1 and does not necessarily reproduce the order of Table 1. Conservative designations such as cf. are used when ITS similarity and/or morphological evidence do not fully support an unequivocal species-level identification.

Taxon 1. Marasmius cf. puttemasii

IDENTIFICATION SHEET		
Taxon name: *Marasmius cf. puttemasii*		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
 **Description:** characterized by a cap with a reddish-brown to dark brown color, with a slightly whitish zone around the umbilicus. The margin of the gills is concolorous with the cap. The stipe is usually accompanied by rhizomorphs or may be directly inserted into the substrate. Found in areas with low light and leaf litter.		
Cap (shape): convex.	**Diameter:** 2 – 5 mm.	**Surface:** dry and velvety.
Color: reddish-brown to dark brown.		
Gills (attachment): free to adnate.	**Color:** brown to cream.	**Spacing**: subdistant.
Lamellulae: absent.		
Stipe (shape): filiform.	**Color:** dark brown to black.	**Texture:** smooth, glabrous and shiny.
Ring presence: absent.	**Veil:** absent.	**Odor:** earthy.
Micromorphology		
Basidiospores (shape): obovoid.	**Size:** 5 – 10 µm.	**Surface:** smooth.
Basidia (shape): clavate.	**Size:** 16 – 22 µm.	**Sterigmata:** 2.

Cystidia (shape): Clavate to vesicular.	**Size:** 11 – 18 µm.
Hyphae: septate.	**Surface:** smooth with slightly thickened hyaline wall.

Ecological data

Ambient temperature: 28ºC	**Substrate temperature:** 26ºC	**RH:** 80%
Habitat: solitary to gregarious.	**Substrate:** leaf litter/stump.	

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14 Taxon 2. Fomitopsis modesta

IDENTIFICATION SHEET	
Taxon name: *Fomitopsis modesta*	**Date:** 25/04/2024
Geolocation: -2.991173º S, -59.969953º W	**Region:** anthropized
Collectors name: Ennes, J.F.V	

Macromorphology

Description: characterized by a cap initially cream to beige, turning pinkish-brown with concentric zones near it. The hymenophore has round to angular pores, cream in color. The basidiocarp is thin, with a cork-like texture, varying from cream to beige. Found on fallen trunks of Angiosperms and Gymnosperms.

Cap (shape): sessile.	**Diameter:** 2 – 5 cm.	**Surface:** velvety.
Color: cream to beige, becoming pinkish-brown.		
Hymenium: porous.	**Color:** cream or beige to pale ochraceous.	**Pores (size/shape)**: round to angular, varying in 200 µm.
Stipe (shape): absent.		
Ring presence: absent.	**Veil:** absent.	**Odor:** earthy.

Micromorphology

Basidiospores (shape): ellipsoids.	**Size:** 3 – 5 µm.	**Surface:** smooth.

Basidia (shape): clavate.	**Size:** 9 – 17 µm.	
Cystidioles: rare.	**Size:** 10 – 14 µm.	**Shape:** pointed.
Hyphae: dimitic and septate.	**Surface:** smooth with slightly thickened hyaline wall.	
Ecological data		
Ambient temperature: 31ºC	**Substrate temperature:** 28ºC	**RH:** 63%
Habitat: gregarious.	**Substrate:** fallen trunks of Angiosperms and Gymnosperms.	

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16 Taxon 3. Mycena sp.

IDENTIFICATION SHEET		
Taxon name: *Mycena sp.*		**Date:** 29/04/2024
Geolocation: -2.968009° S, -59.930695° W		**Region:** preserved
Collectors name: Ennes, J.F.V		
Macromorphology		
	**Description:** Characterized by a grayish-white pileus with a smooth margin. The gills are white to cream, moderately spaced, with the presence of lamellulae. The stipe is cylindrical, white, darkening to grayish-white at the base. Found on leaves and stumps in the leaf litter.	
Cap (shape): convex and slightly umbilicate at the center.	**Diameter:** 0.5 – 1 cm.	**Surface:** smooth.
Color: white to grayish-white.		
Gills (attachment): adnate.	**Color:** white to cream.	**Spacing**: subdistant.
Lamellae: present.		
Stipe (shape): cylindrical, slender, slightly enlarged at the base.	**Color:** grayish white.	**Texture:** slightly tomentose.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.
Micromorphology		
Basidiospores (shape): ellipsoid.	**Size:** 6 – 8 µm.	**Surface:** smooth, hyaline.

Basidia (shape): claviform.	**Size:** 19 – 24 µm.	**Sterigmata:** 4.
Cystidia (shape): clavate.	**Size:** 1 – 5 µm.	
Hyphae: septate with thin walls.	**Surface:** smooth.	

Ecological Data

Ambient temperature: 27ºC	**Substrate temperature:** 26ºC	**RH:** 82%
Habitat: solitary.	**Substrate:** leaf litter.	

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18 Taxon 4. Geastrum hirsutum

IDENTIFICATION SHEET

Taxon name: *Geastrum hirsutum*	**Date:** 04/05/2024
Geolocation: -2.967771° S, -59.931568° W	**Region:** preserved.
Collectors name: Ennes, J.F.V	

Macromorphology

Description: epigeous fungus, with a basidioma ranging from beige to grayish-brown, rounded to pear-shaped, and with a smooth margin. It grows on a white substrate, either solitary or in groups. The exoperidium forms triangular rays, and the peristome is well-defined. The endoperidium is brown, and the gleba is brown. Found in humid areas covered by leaf litter.

Basidioma: subglobose to pear-shaped.	**Height x width:** 1 – 2 cm x 3 – 4 cm.	**Surface:** smooth.
Color: beige to grayish-brown.		
Exoperidium: smooth and velvety.	**Color:** coppery.	
Endoperidium: subglobose.	**Height x width:** 2 – 5 mm x 2 – 6 mm.	
Color: grayish-brown**.**	**Gleba:** brown.	**Peristome:** fringed.
Color: brown.	**Height:** 2 mm.	**Odor:** indistinct.

Micromorphology

Basidiospores (shape): globose.	**Size:** 3 – 4 µm.	**Surface:** verrucose with slight ornamentation.
Basidia: not identified.		

Hyphae: fine and septate.	**Surface:** hyaline with a yellowish color.
Ecological data	
Ambient temperature: 28ºC	**Substrate temperature:** 26ºC **RH:** 77%
Habitat: solitary to gregarious.	**Substrate:** leaf litter.

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20 Taxon 5. Cystolepiota sp.

IDENTIFICATION SHEET		
Taxon name: *Cystolepiota sp*.		**Date:** 29/04/2024
Geolocation: -2.968009° S, -59.930695° W		**Region:** preserved.
Collectors name: Ennes, J.F.V		
Macromorphology		
	**Description:** characterized by a white, fleshy, convex-campanulate, and umbilicate cap. Free, closely spaced gills, concolorous with the cap. Cylindrical, white, fibrous stipe with a bulbous base. Found on leaves and stumps in the leaf litter.	
Cap (shape): convex, campanulate, and umbonate.	**Diameter:** 2 – 3 cm.	**Surface:** powdery to smooth.
Color: white to cream.		
Gills (attachment): adnate.	**Color:** white to cream.	**Spacing**: close.
Lamellulae: present.		
Stipe (shape): cylindrical.	**Color:** white.	**Texture:** fibrous and powdery.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.
Micromorphology		
Basidiospores (shape): obovoid.	**Size:** 5 – 6 µm.	**Surface:** smooth.
Basidia (shape): clavate.	**Size:** 17 – 20 µm.	**Sterigmata:** 2.
Cystidia (shape): clavate.	**Size:** 11 – 18 µm.	
Hyphae: septate.	**Surface:** smooth with hyaline walls.	

Ecological Data		
Ambient temperature: 27ºC	**Substrate temperature:** 26ºC	**RH:** 82%
Habitat: solitary and gregarious.	**Substrate:** leaf litter and stump.	

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22 *Taxon 6. Marasmius cf. haematocephalus*

IDENTIFICATION SHEET		
Taxon name: *Marasmius cf. haematocephalus*		**Date:** 11/05/2024
Geolocation: -2.968369° S, -59.930858° W		**Region:** preserved.
Collectors name: Ennes, J.F.V		
Macromorphology		
	**Description:** characterized by a dark pink to reddish, fibrous, and dry cap with striated margins. Lamellae are adnate, white to pale pink. The stipe is thin, brownish, hollow, and inserted in the substrate. Found on leaves and stumps in the leaf litter.	
Cap (shape): convex and campanulate.	**Diameter:** 1 – 2 cm.	**Surface:** dry and fibrous.
Color: pink to reddish.		
Gills (attachment): adnate.	**Color:** white to beige, slightly pinkish.	**Spacing**: separate and equidistant.
Lamellulae: absent.		
Stipe (shape): cylindric and slender.	**Color:** brown to brownish.	**Texture:** smooth, fragile, and hollow.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.
Micromorphology		
Basidiospores (shape): clavate.	**Size:** 11 – 21 µm.	**Surface:** hyaline with clamp connections.
Basidia (shape): clavate.	**Size:** 24 – 30 µm.	**Sterigmata:** 4.
Cystidia (shape): fusiform, lanceolate.	**Size:** 35 – 60 µm.	

Hyphae: septate.	**Surface:** hyaline with clamp connections.
Ecological data	
Ambient temperature: 28ºC	**Substrate temperature:** 26ºC **RH:** 72%
Habitat: solitary and gregarious.	**Substrate:** leaf litter and stump.

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24 Taxon 7. Marasmius sp.

IDENTIFICATION SHEET		
Taxon name: *Marasmius sp.*		**Date:** 11/05/2024
Geolocation: -2.968369° S, -59.930858° W		**Region:** preserved.
Collectors name: Ennes, J.F.V		
Macromorphology		
 **Description:** characterized by a convex and umbilicate cap, with a dry, smooth, and shiny surface, ranging from white to cream in color. The lamellae are adnate, separated, and equidistant, with a color matching the cap and no lamellulae. The stipe is filiform, flexible, dark brown to black, with a smooth and shiny texture, lacking a ring or veil. Found on leaves and stumps in the leaf litter.		
Cap (shape): convex and umbilicate.	**Diameter:** 5 – 15 mm.	**Surface:** dry, smooth and shiny.
Color: white to cream.		
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: separate and equidistant.
Lamellulae: absent.		
Stipe (shape): filiform and flexile.	**Color:** dark brown to black.	**Texture:** smooth and shiny.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.
Micromorphology		
Basidiospores (shape): ellipsoid.	**Size:** 8 – 12 µm.	**Surface:** smooth and hyaline.

Basidia (shape): clavate.	**Size:** 25 – 30 µm.	**Sterigmata:** 4.
Cystidia (shape): clavate.	**Size:** 14 - 25 µm.	
Hyphae: septate with clamp connection..	**Surface:** smooth.	
Ecological data		
Ambient temperature: 28ºC	**Substrate temperature:** 26ºC	**RH:** 72%
Habitat: solitary and gregarious.	**Substrate:** leaf litter and stump.	

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26 Taxon 8. Marasmiellus praecutus

IDENTIFICATION SHEET		
Taxon name: *Marasmiellus praecutus*		**Date:** 29/04/2024
Geolocation: -2.968009° S, -59.930695° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		

Description: characterized by a convex and campanulate cap, with a smooth, grooved, and opaque surface, ranging from dark brown to beige in color. The lamellae are adnexed, separated, and equidistant, with a color matching the cap and no lamellulae. The stipe is cylindrical, slender, dark brown to brown, with a smooth, fragile, and hollow texture, lacking a ring or veil. Found on leaf litter and stumps.

Cap (shape): convex, campanulate.	**Diameter:** 2 – 15 mm.	**Surface:** smooth, grooved, and opaque.
Color: dark brown and beige.		
Gills (attachment): adnexed.	**Color:** matching the cap.	**Spacing**: separated and equidistant.
Lamellulae: absent.		
Stipe (shape): cylindrical and slender.	**Color:** dark brown to brown.	**Texture:** smooth, fragile and hollow.
Ring presence: absent.	**Veil:** absent.	**Odor:** absent.

Micromorphology		
Basidiospores (shape): ellipsoid.	**Size:** 8 – 12 µm.	**Surface:** smooth and hyaline.
Basidia (shape): clavate.	**Size:** 20 – 30 µm.	**Sterigmata:** 4.
Cystidia (shape): fusiform.	**Size:** 11 – 17 µm.	
Hyphae: septate with clamp connections.	**Surface:** smooth.	
Ecological data		
Ambient temperature: 28ºC	**Substrate temperature:** 26ºC	**RH:** 80%
Habitat: solitary and gregarious.	**Substrate:** leaf litter and stump.	

27

28 Taxon 9. Gymnopus talisiae

IDENTIFICATION SHEET		
Taxon name: *Gymnopus talisiae.*		**Date:** 29/04/2024
Geolocation: -2.968009° S, -59.930695° W		**Region:** preserved.
Collector(s): Ennes, J.F.V		
Macromorphology		
	**Description:** characterized by a convex, smooth cap, light brown to brown. Gills are cream to light brown, without lamellulae. The stipe is cylindrical, matching the color of the cap, smooth, and lacks a ring or veil. Spores are ellipsoid, with clavate basidia and cystidia. Found gregarious in leaf litter.	
Cap (shape): convex.	**Diameter:** 1 – 3 cm.	**Surface:** smooth and shiny.
Color: light brown.		
Gills (attachment): adnate.	**Color:** cream to white.	**Spacing**: subdistant.
Lamellulae: present.		
Stipe (shape): cylindrical and flexible.	**Color:** brown to light brown.	**Texture:**smooth and fibrous.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

Micromorphology		
Basidiospores (shape): ellipsoid.	**Size:** 6 – 9 µm.	**Surface:** smooth and hyaline.
Basidia (shape): clavate.	**Size:** 22 – 28 µm.	**Sterigmata:** 4.
Cystidia (shape): clavate.	**Size:** 11 – 20 µm.	
Hyphae: septate, with clamp connections.	**Surface:** smooth.	
Ecological data		
Ambient temperature: 28ºC	**Substrate temperature:** 26ºC	**RH:** 80%
Habitat: solitary.	**Substrate:** leaf litter.	

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30 Taxon 10. Unidentified Agaricales (closest ITS match: Psathyrella sp.)

IDENTIFICATION SHEET		
Taxon name: *Unidentified Agaricales (closest ITS match: Psathyrella sp.)*	**Date:** 22/04/2024	
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved.	
Collectors name: Ennes, J.F.V		
Macromorphology		
 **Description:** characterized by a convex, smooth cap, ranging from light brown to brown. The gills are cream to light brown, without lamellulae. The stipe is cylindrical, matching the cap in color, smooth, without a ring or veil. Spores are ellipsoid, with clavate basidia and cystidia. Found gregarious in leaf litter. Identification note: this record is retained as Unidentified Agaricales in the main table; the ITS barcode showed its closest match to Psathyrella sp. in Supplementary Table S2.		
Cap (shape): convex.	**Diameter:** 2 – 5 cm.	**Surface:** smooth and shiny.
Color: light brown to brown.		
Gill (attachment): adnate.	**Color:** cream to light brown.	**Spacing**: separated and equidistant.
Lamellulae: absent.		

Stipe (shape): cylindrical.	**Color:** matching the cap.	**Texture:** smooth and fragile.
Ring presence: absent.	**Veil:** absent.	**Odor:** earthy.
Micromorphology		
Basidiospores (shape): ellipsoid.	**Size:** 11 – 13 µm.	**Surface:** smooth.
Basidia (shape): clavate.	**Size:** 17 – 25 µm.	**Sterigmata:** 4.
Cystidia (shape): clavate.	**Size:** 25 – 37 µm.	
Hyphae: septate, with clamp connections.	**Surface:** smooth.	
Ecological data		
Ambient temperature: 28ºC	**Substrate temperature:** 26ºC	**RH:** 77%
Habitat: gregarious.	**Substrate:** leaf litter.	

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32 Taxon 11. Mycena sp. (2)

IDENTIFICATION SHEET		
Taxon name: *Mycena* sp. (2)		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
	**Description:** characterized by a small and delicate basidioma, with a white to cream coloration, translucent shades, and a gelatinous appearance when moist. The fungus grows gregariously or in small groups, on humid leaf litter and stumps.	
Cap (shape): convex and campanulate. **Color:** white to cream.	**Diameter:** 0.5 – 2 cm.	**Surface:** smooth
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: equidistant.

Lamellulae: absent.

Stipe (shape): cylindrical.	**Color:** matching the cap.	**Texture:** fragile.
Ring presence: absent.	**Veil:** absent.	**Odor:** sugar/honey.

33

34 Taxon 12. Mycena sp. (3)

IDENTIFICATION SHEET	
Taxon name: *Mycena* sp. (3)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a small and delicate basidioma. The fungus grows gregariously or in small groups, on decaying wood or leaf litter.

Cap (shape): flattened to umbilicated.	**Diameter:** 0.5 – 1.5 cm.	**Surface:** smooth and shiny.

Color: white to cream with a light brown umbo.

Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: close.

Lamellulae: absent.

Stipe (shape): cylindrical.	**Color:** matching the cap.	**Texture:** smooth.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

35

36 Taxon 13. Amauroderma sp. (1)

IDENTIFICATION SHEET	
Taxon name: *Amauroderma* sp. (1)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved

Collector(s): Ennes, J.F.V; Mouzinho, M.T;

Macromorphology

Description: characterized by an irregular and rough pileus, dark brown to black in color, with a lighter margin. The hymenophore is porous, white to cream. The stipe is short, rigid, and eccentric. It grows on the ground.

Cap (shape): flattened a convex. **Diameter:** 2 – 6 cm. **Surface:** irregular.

Color: dark brown to black.

Hymenophore: porous. **Color:** light brown.

Stipe (shape): cylindrical. **Color:** matching the cap **Texture:** smooth

Odor: indistinct.

37

38 Taxon 14. Amauroderma sp. (2)

IDENTIFICATION SHEET	
Taxon name: *Amauroderma* sp. (2)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a smooth and woody pileus, black in color, with a lighter margin. The hymenophore is porous, light gray to black. The stipe is short, thin, dry, and rigid. It grows on the ground or on roots.

Cap (shape): flattened and umbilicate. **Diameter:** 2 – 5 cm. **Surface:** smooth.

Color: dark brown to black.

Hymenophore: porous. **Color:** light gray to black.

Stipe (shape): cylindrical and thin. **Odor:** indistinct.	**Color:** matching the cap.	**Texture:** smooth and rigid.

39

40 Taxon 15. Amauroderma sp. (3)

IDENTIFICATION SHEET		
Taxon name: *Amauroderma* sp. (3)		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
 **Description:** characterized by an irregular and rough pileus, dark brown in color, with a lighter margin. The hymenophore is porous, light gray to cream. The stipe is short, thick, and rigid. It grows on the ground or on roots.		
Cap (shape): semi-circular. **Color:** dark brown.	**Diameter:** 4 – 7 cm.	**Surface:** irregular and roug.
Hymenophore: porous.	**Color:** light gray to cream.	
Stipe (shape): irregular, short and thick. **Odor:** earthy.	**Color:** matching the cap.	**Texture:** rigid.

41

42 Taxon 16. Auricularia sp. (1)

IDENTIFICATION SHEET		
Taxon name: *Auricularia* sp. (1)		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		

Macromorphology

Description: Characterized by a smooth and gelatinous basidioma, red-brown in color. The fungus grows gregariously on decaying trunks.

Cap (shape): convex.	**Diameter:** 5 – 10 cm.	**Surface:** smooth and shiny.
Color: red brown.		
Hymenophore: porous with villi.	**Color:** matching the cap.	**Spacing**: anastomosed.
Lamellulae: absent.		
Stipe (shape): absent.		
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

43

44 Taxon 17. Auricularia sp. (2)

IDENTIFICATION SHEET	
Taxon name: *Auricularia* sp. (2)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a smooth and gelatinous basidioma, light brown to orange in color. The fungus grows gregariously on decaying trunks.

Cap (shape): flattened.	**Diameter:** 5 – 10 cm.	**Surface:** smooth and shiny com sulcos.
Color: light brown to orange.		
Hymenophore: porous with villi.	**Color:** cream.	**Spacing**: anastomosed.
Lamellulae: absent.		

Stipe (shape): absent.		
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

45

46 Taxon 18. Favolus sp.

IDENTIFICATION SHEET		
Taxon name: *Favolus* sp.		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
 **Description:** characterized by a white to cream basidioma, semi-circular to reniform in shape. It has striated margins. The fungus grows gregariously on decaying trunks.		
Cap (shape): semi-circular to reniform.	**Diameter:** 2 – 13 cm.	**Surface:** irregular.
Color: white to cream.		
Hymenophore: honeycomb-shaped pores.	**Color:** cream.	**Spacing**: equidistant.
Lamellulae: absent.		
Stipe (shape): funnel-shaped.	**Color:** matching the cap.	**Surface:** smooth.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

47

48 Taxon 19. Hexagonia sp.

IDENTIFICATION SHEET		
Taxon name: *Hexagonia* sp.		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		

Macromorphology

Description: characterized by a light brown basidioma with reddish margins, covered by trichomes. It is semi-circular to reniform in shape. It has a smooth and defined margin. The fungus grows gregariously on decaying trunks.

Cap (shape): semi-circular to reniform.	**Diameter:** 5 – 14 cm.	**Surface:** covered with trichomes.
Color: light brown.		
Hymenophore: porous.	**Color:** dark gray to black.	**Spacing**: equidistant.
Lamellulae: absent.		
Stipe (shape): absent.		
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

49

50 Taxon 20A. Hygrocybe sp.

IDENTIFICATION SHEET	
Taxon name: *Hygrocybe sp.* sp.	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by an intense red, umbilicate basidioma. The stipe is delicate and matches the cap, becoming lighter near the base of the pileus. The fungus grows solitarily on leaves in the leaf litter.

Cap (shape): convex and umbilicate.	**Diameter:** 0.5 – 1 cm.	**Surface:** smooth with small grooves.
Color: red.		
Gills (attachment): adnate.	**Color:** cream.	**Spacing**: equidistant.
Lamellulae: absent.		

Stipe (shape): thin and fragile.	**Color:** red.	**Surface:** smooth.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

51

52 Taxon 21. Lentinus sp.

IDENTIFICATION SHEET		
Taxon name: *Lentinus* sp.		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
	**Description:** characterized by a light brown basidioma, umbilicate at the center and hairy. The stipe is rigid, thin, hairy, and dark brown. The fungus grows solitarily to gregariously on leaves, stumps, and logs.	
Cap (shape): convex to umbilicate.	**Diameter:** 4 – 7 cm.	**Surface:** hairy.
Color: light brown.		
Gills (attachment): adnate.	**Color:** light brown.	**Spacing**: close and equidistant.
Lamellulae: present.		
Stipe (shape): thin and rigid.	**Color:** dark brown.	**Surface:** hairy.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

53

54 Taxon 22. Lepiota sp.

IDENTIFICATION SHEET		
Taxon name: *Lepiota* sp.		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		

Description: characterized by a pinkish-white basidioma, umbonate at the center and hairy. The stipe is rigid, thin, hairy, and dark brown. The fungus grows solitarily on logs.

Cap (shape): convex.	**Diameter:** 2 – 5 cm.	**Surface:** scaly.
Color: white to pink.		
Gills (attachment): adnate.	**Color:** white to pink.	**Spacing**: close and equidistant.
Lamellulae: absent.		
Stipe (shape): thin.	**Color:** pink.	**Surface:** scaly.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

55

56 Taxon 23. Leucoagaricus sp. (1)

IDENTIFICATION SHEET	
Taxon name: *Leucoagaricus* sp. (1)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a white, conical pileus. The stipe is fragile, thick, smooth, and matches the cap. It has a ring present. The fungus grows solitarily to gregariously on the ground.

Cap (shape): conical.	**Diameter:** 5 – 10 cm.	**Surface:** smooth.
Color: white.		
Gills (attachment): adnate.	**Color:** white.	**Spacing**: close and equidistant.
Lamellulae: absent.		
Stipe (shape): thick and rigid.	**Color:** white to brown.	**Surface:** smooth.
Ring presence: present.	**Veil:** absent.	**Odor:** indistinct.

Taxon 24. Leucoagaricus sp. (2)

IDENTIFICATION SHEET		
Taxon name: *Leucoagaricus* sp. (2)		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology **Description:** characterized by a white, conical basidioma with a dark brown umbo. The stipe is fragile, thick, smooth, and light brown in color, matching the pileus. It has a ring present. The fungus grows solitarily to gregariously on the ground.		
Cap (shape): conical.	**Diameter:** 8 – 12 cm.	**Surface:** smooth.
Color: white.		
Gills (attachment): adnate.	**Color:** white.	**Spacing**: close and equidistant.
Lamellulae: absent.		
Stipe (shape): thick and rigid.	**Color:** brown.	**Surface:** smooth.
Ring presence: present.	**Veil:** absent.	**Odor:** indistinct.

Taxon 25. Marasmius sp. (2)

IDENTIFICATION SHEET		
Taxon name: *Marasmius* sp. (2)		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology  **Description:** characterized by a brown to light brown, rough pileus, becoming more reddish at the umbilicus. The stipe is rigid, thin, and red-brown. The fungus grows gregariously to solitarily on leaf litter.		

Cap (shape): campanulate.	**Diameter:** 3 – 5 cm.	**Surface:** channeled.
Color: light brown to orange.		
Gills (attachment): adnate.	**Color:** cream.	**Spacing**: close and equidistant.
Lamellulae: present.		
Stipe (shape): thin.	**Color:** red brown.	**Surface:** smooth and rigid.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

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62 Taxon 26. Marasmius sp. (3)

IDENTIFICATION SHEET	
Taxon name: *Marasmius* sp. (3)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a white to cream, channeled, umbrella-shaped pileus. The stipe is rigid, thin, and red-brown. The fungus grows solitarily on leaf litter and stumps.

Cap (shape): campanulate to convex.	**Diameter:** 1 – 1.5 cm.	**Surface:** channeled.
Color: white to cream.		
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: separated.
Lamellulae: absent.		
Stipe (shape): thin.	**Color:** red brown.	**Surface:** smooth and rigid.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

63

64 Taxon 27. Pycnoporus sp.

IDENTIFICATION SHEET	
Taxon name: *Pycnoporus* sp.	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by an orange to red basidioma, with a white to orange margin. It is semi-circular to reniform in shape. It can be sessile or have a stipe. The fungus grows gregariously on fallen logs.

Cap (shape): semi-circular to reniform. **Diameter:** 2 – 10 cm. **Surface:** velvety.

Color: red to orange.

Hymenophore: porous. **Color:** red to orange. **Spacing**: equidistant.

Lamellulae: absent.

Stipe (shape): most time absent.

Ring presence: absent. **Veil:** absent. **Odor:** indistinct.

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66 Taxon 28. Pleurotus sp.

IDENTIFICATION SHEET	
Taxon name: *Pleurotus* sp.	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a white to cream, reniform, and sessile basidioma. The fungus grows gregariously on fallen logs.

Cap (shape): reniform.	**Diameter:** 5 – 15 cm.	**Surface:** smooth and shiny.
Color: white to cream.		
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: close.
Lamellulae: present.		
Stipe (shape): sessile.		
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

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68 Taxon 29. Schizophyllum sp. (1)

IDENTIFICATION SHEET	
Taxon name: *Schizophyllum* sp. (1)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** anthropized
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a light brown to cream, reniform, and sessile basidioma. The fungus grows gregariously on fallen logs.

Cap (shape): reniform.	**Diameter:** 1 – 5 cm.	**Surface:** velvety and hairy.
Color: light brown a cream.		
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: close.
Lamellulae: absent.		
Stipe (shape): sessile.		
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

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70 Taxon 30. Schizophyllum sp. (2)

IDENTIFICATION SHEET

Taxon name: *Schizophyllum* sp. (2)	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** anthropized
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a white to cream basidioma, with concentric brown lines. It has a reniform shape and a sessile to short stipe. The fungus grows gregariously on fallen logs.

Cap (shape): reniform.	**Diameter:** 0.5 – 7 cm.	**Surface:** velvety and hairy.
Color: light brown to cream.		
Gills (attachment): adnate.	**Color:** light brown.	**Spacing**: close.
Lamellulae: absent.		
Stipe (shape): most time sessile.		
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

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72 Taxon 31. Tetrapyrgos sp.

IDENTIFICATION SHEET	
Taxon name: *Tetrapyrgos* sp.	**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W	**Region:** preserved
Collector(s): Ennes, J.F.V; Mouzinho, M.T;	

Macromorphology

Description: characterized by a white to cream pileus with a thin stipe that is black toward the base. Slightly delicate and fragile. The fungus grows gregariously on stumps and leaf litter.

Cap (shape): convex.	**Diameter:** 0.5 – 0,8 cm.	**Surface:** channeled.

Color: white to cream.		
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing**: scattered.
Lamellulae: absent.		
Stipe (shape): thin and fragile.	**Color:** white.	**Surface:** smooth to velvety.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

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74 Taxon 32. Trametes sp.

IDENTIFICATION SHEET		
Taxon name: *Trametes* sp.		**Date:** 22/04/2024
Geolocation: -2.967895° S, -59.931167° W		**Region:** anthropized
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
	**Description:** characterized by a white to cream basidioma, with concentric brown lines. It has a reniform shape and a sessile stipe. The fungus grows gregariously on fallen logs.	
Cap (shape): reniform.	**Diameter:** 4 – 10 cm.	**Surface:** velvety and lethery.
Color: light brown to cream.		
Hymenophore: porous.	**Color:** cream.	
Lamellulae: absent.		
Stipe (shape): sessile.		
Ring presence: absent.	**Veil:** absent.	**Odor:** fungi.

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76 Taxon 33. Unidentified Agaricales

IDENTIFICATION SHEET	
Taxon name: Unidentified Agaricales	**Date:** 22/04/2024

Geolocation: -2.967895° S, -59.931167° W		**Region:** anthropized
Collector(s): Ennes, J.F.V; Mouzinho, M.T;		
Macromorphology		
 **Description:** characterized by a yellow basidioma with concolorous granulations on the pileus. The stipe is fragile and strongly attached to the substrate. The fungus grows solitarily on fallen logs.		
Cap (shape): convex.	**Diameter:** 1.5 cm.	**Surface:** scaly.
Color: yellow.		
Gills (attachment): adnate.	**Color:** matching the cap.	**Spacing:** close.
Lamellulae: absent.		
Stipe (shape): thin.	**Color:** yellow.	**Surface:** smooth to velvety.
Ring presence: absent.	**Veil:** absent.	**Odor:** indistinct.

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Taxon 20B. Hygroaster cf. albellus

IDENTIFICATION SHEET	
Taxon name:	*Hygroaster cf. albellus*
Date:	Not available in the morphological sheet
Geolocation / Region:	Not available in the morphological sheet; molecular record listed in Supplementary Table S2
Collector(s):	Not available in the morphological sheet
Macromorphology:	*Separate field photograph and full morphological description were not available in Supplementary File S1. This entry was kept as a separate record to avoid merging the Hygrocybe sp. morphotype with the ITS-based Hygroaster record.*
Identification basis:	*Conservative identification based on ITS barcode information in Supplementary Table S2. Because the ITS similarity was moderate, the taxon is reported as Hygroaster cf. albellus rather than as an unequivocal species-level identification.*

Correspondence note: S1 contains an internal order of identification sheets. Taxon 10 is retained as Unidentified Agaricales in the main table because the molecular result indicates only a closest ITS match to Psathyrella sp.; Taxon 20A and Taxon 20B separate the Hygrocybe morphotype from the conservative Hygroaster cf. albellus molecular record.

Supplementary Table S2

Supplementary Table S2. Study sequence GenBank accession numbers, conservative taxonomic assignments, closest ITS barcode matches, closest-match accession numbers, and sequence similarity values for 14 sequenced macrofungal isolates from the Adolpho Ducke Forest Reserve, Manaus, Amazonas, Brazil.

Study sequence accession no.	Conservative taxonomic assignment	Closest ITS match	Closest-match accession no.	Similarity (%)
PQ850557	*Marasmius* sp.	*Marasmius* sp.	MK546751.1	91.92
PQ850554	*Marasmius* cf. *puttemasii*	*Marasmius puttemasii*	MN714047.1	91.95
PQ850566	*Fomitopsis modesta*	*Fomitopsis modesta*	ON994714.1	99.98
PQ850565	*Mycena* sp.	*Mycena* sp.	OQ871846.1	99.65
PQ850562	*Geastrum hirsutum*	*Geastrum hirsutum*	MH635005.1	99.62
PQ850560	*Cystolepiota* sp.	*Cystolepiota* sp.	PQ135776.1	95.05
PQ850556	*Hygroaster* cf. *albellus*	*Hygroaster albellus*	MT921458.1	95.70
PQ850564	*Marasmius* cf. *haematocephalus*	*Marasmius haematocephalus*	ON502675.1	92.78
PQ850553	*Leucoagaricus* sp.	*Leucoagaricus* sp.	MT952876.1	90.36
PQ850563	*Marasmius* cf. *bellus*	*Marasmius bellus*	KP635208.1	95.83
PQ850559	*Marasmius* sp.	*Marasmius* sp.	MK546814.1	99.98
PQ850558	*Marasmiellus praecutus*	*Marasmiellus praecutus*	OP749700.1	99.95
PQ850561	*Gymnopus talisiae*	*Gymnopus talisiae*	KT222656.1	98.08
PQ850555	Unidentified Agaricales morphotype	*Psathyrella* sp.	KU847439.1	99.62

Notes: Taxonomic assignments were interpreted conservatively based on ITS barcode similarity and morphological evidence provided in Supplementary File S1. Species-level names were retained when ITS similarity and morphology were concordant. Records with low or moderate ITS similarity were treated as "cf.", genus-level assignments, or unidentified morphotypes. The unidentified Agaricales morphotype showed its closest ITS match with *Psathyrella* sp. but was retained at order level in the main table.

Abbreviation: cf. = confer, indicating a conservative taxonomic assignment close to the listed species.

Supplementary Table S3

Supplementary Table S3. Sector-level richness and abundance recorded in the preserved and anthropized sectors of the Adolpho Ducke Forest Reserve, Manaus, Amazonas, Brazil.

Sector	Sampled area (m²)	Number of basidiomata	Taxon richness
Preserved	600	91	31
Anthropized	600	15	8

Note: The six 10 × 10 m plots within each sector were treated as subsampling units; values are presented descriptively at the sector level.

Supplementary Figure S3

Supplementary Figure S3. Taxon-accumulation curves for macrofungal records from the preserved and anthropized sectors of the Adolpho Ducke Forest Reserve, Manaus, Amazonas, Brazil.

Supplementary Figure S3. Species accumulation curve of unique macrofungal taxa recorded in preserved and anthropized sectors of the Adolpho Ducke Forest Reserve, Manaus, Amazonas, Brazil.