

2. *Hymenogaster Setchellii*, sp. nov.

Minute, 1.5 cm. in diam.; color white turning to brown, subglobose, smooth; gleba buff, elastic; cells large, sinuous; sterigmata elongated; spores citriform, guttulate, brown, $7 \times 9 \mu$.

Type, No. 165, Harkness Coll.

Under *Vaccinium*, beneath vegetable humus, Mt. Tamalpais, Marin County, Calif., April.

Named in honor of Professor William A. Setchell, of the University of California.

3. *Hymenogaster utriculatus*, sp. nov.

PLATE XLII, FIGS. 6a-6f.

Large, roundly gibbous, 2 cm. in diam.; color chocolate-brown; smooth, with slightly concave depressions upon the surface; gleba brown; cells gyrose or subrotund; septa fleshy, elastic, fibrose; spores ovoid, upon a cylindrical pedicel 3μ in length, inclosed within a winged utricle, color citron-brown, $6 \times 10 \mu$.

Type, No. 244, Harkness Coll.

Among Sequoias and oaks, Mill Valley, Marin County, Calif., July.

The spores of the *Hymenogaster* are frequently inclosed in a semitransparent utricle; such investment is, however, so far as the writer has observed, uniformly saccate or subrotund in outline.

4. *Hymenogaster ruber*, sp. nov.

Oblong, 2 cm. in diam., rugose; peridium pale red, thick, fleshy; gleba brown, septa white; cells minute; spores briefly obovate, rough, $6 \times 8 \mu$.

Type, No. 248, Harkness Coll.

In the forest, Mill Valley, Marin County, Calif., July.

5. *Hymenogaster globosus*, sp. nov.

Minute, globose, 1 cm. in diam.; color dirty white; gleba fuscous or nearly black; cells irregular; spores ellipsoidal, $6 \times 12 \mu$.

Type, No. 246, Harkness Coll.

In damp ground, beside a rivulet, Mill Valley, Marin County, Calif., July.

6. *Hymenogaster candidus*, sp. nov.

Oblong-cylindrical, 3 cm. in diam.; color white; gleba ochraceous; cells large; spores elliptical, guttulate, color brown, $10 \times 9 \mu$.

Type, No. 49, Harkness Coll.

Under *Pseudotsuga Douglassii*, Towle, Placer County, Calif., May.

Differing from *H. Klotzii* in the form of the fungus and in the shape of the spores.

7. *Hymenogaster luteus* Vitt.

Hymenogaster luteus VITT., Monog. Tub., p. 22, Tab. III, fig. 9.

Peridium very thin, soft and silky, white, then brownish, bright yellow within; spores even, ovate or elliptic, oblong, yellow. (Berk. Outlines Brit. Fung., p. 295.)

No. 12, Harkness Coll.

Under decaying wood, Oakland, Calif., December.

8. *Hymenogaster calosporus* Tul.

Hymenogaster calosporus TUL., Fungi Hypo., p. 70, Tab. X, fig. 4.

Globosus sat irregularis, sæpius depressus aut costato-sulcatus (subtus præsertim), ex albido brunneus et sordidus; peridio tenui vix solubili, humido; lacunis inæqualibus absque directione, vacuis; septis linea media obscuriore notatis nec scissilibus; pulvinulo subnullo; sporis lanceolato-acuminatis, saturate brunneo-rubiginosis, levibus.

No. 48, Harkness Coll.

In the forest, Towle, Placer County, Calif., May.

9. *Hymenogaster muticus* B. & Br.

Hymenogaster muticus B. & Br., Ann. & Mag. Nat. Hist., 2d Ser., Vol. II, p. 267.

Globose, quite white when young, then tinged with brown and cracked, pale yellow-brown within; spores obovate, oblong, very obtuse. (Berk. Outlines Brit. Fung., p. 295.)

No. 64, Harkness Coll.

Under Sequoias, Taylor's Mills and Mt. Tamalpais, Marin County, Calif., March.

The colored illustrations have been mostly prepared after fresh material, a few after alcoholic preparations. The microscopic drawings have been made from glycerine preparations with the aid of a Zeiss Apochromat, Obj. 2 mm., Aperture 1.40, Compensating Oculars 8 and 12. Projection on working table.

EXPLANATION OF PLATE XLII.

- Fig. 1. *Hysterangium Phillipsii*, sp. nov.
(a) Vertical section with fibrillose rootlets. (b) Section of gleba.
- Fig. 2. *Hysterangium cinereum*, sp. nov.
(a) Fully developed fungus. (b) Transverse section.
- Fig. 3. *Octaviania monticola*, sp. nov.
(a) External view. (b) Transverse section of same. (c) Section of gleba enlarged.
- Fig. 4. *Octaviania occidentalis*, sp. nov.
(a) Section of gleba enlarged; Zeiss AA, Oc. 2. (b) Section showing hymenium and pseudobasidia; Zeiss AA, Oc. 6.
(c) Pseudobasidia enlarged, showing spores round or ovoid.
(d) Free spore.
- Fig. 5. *Octaviania socialis*, sp. nov.
(a) Perfect plant. (b) Vertical section. (c) Enlarged spores *in situ*. (d) Basidia, sterigma, and spores.
- Fig. 6. *Hymenogaster utriculatus*, sp. nov.
(a) Entire plant. (b) Section of gleba showing cells and hymenium. (c) Enlarged section of hymenium. (d, e) Two spores with utricle. (f) Isolated spore.
- Fig. 7. *Leucophleps magnata*, gen. et sp. nov.
(a) Section of hymenium with basidia and spores. (b) Vertical section showing cell-structure. (c) Optical section of spore with spore investment.

