

90. *Tuber (Sphærotuber) Californicum*, sp. nov.

PLATE XLV, FIGS. 31a-31b.

Subglobose, 1.5 cm. in diam., ochraceous, smooth; gleba firm, brown; veins conspicuous, not plentiful; asci subglobose, not stipitate, 3-4-spored; spores globose, large, brown when mature, reticulate-alveolate, 42 μ in diam., about ten alveoli on the circumference.

Type, No. 150, Harkness Coll.

Under oaks beneath vegetable humus upon a hillside, Laundry Farm, Alameda County, Calif., March.

This species is especially notable for the magnitude of its spore.

91. *Tuber (Oogaster) Caroli Bonnet*.

Tuber (Oogaster) Caroli BONNET, Rev. Mycol., Ann. VII, 1885, p. 8.

Globosum, brunneo-ferrugineum, verrucis plerumque 5-goniis asperatum, basi squamiformi, eximia instructum; gleba firma, sicca, pallide luteola, dein luteola, venis albis, numerosis, latissimis, e fungi basi exorientibus, gyrosis marmorata, lineis obscuris destituta; ascis globosis v. piriformibus, longe lateque stipitatis, 1-4-sporis; sporidiis ellipsoideis, dense et acute aculeatis, magnis, 20-22= μ 14-15, luteo-brunneis. (Paoletti in Saccardo's *Sylloge Fung.*, Vol. VIII, 1889, p. 894.)

No. 149, Harkness Coll.

In clayey soil beneath oaks, Laundry Farm, Alameda County, March; Howards, Marin County, Calif., May.

92. *Tuber (Sphærogaster) candidum*, sp. nov.

PLATE XLV, FIGS. 32a-32b.

Subrotund, 2 cm. in diam., smooth, color white brown; gleba light brown; veins attenuate, white; asci subglobose; 3-4-spored; spores globose or ovoid, echinate, brown when mature, 24 μ in diam.

Type, No. 195, Harkness Coll.

Under dense clusters of *Ceanothus*, Auburn, Placer County, Calif., May.

Differing from *T. echinatum* Sacc. in the form of the spore.

93. *Tuber (Sphærogaster) Eisenii*, sp. nov.

Irregularly oblong, 3 cm. in diam., common integument smooth; gleba pale or whitish; veins large; asci ovate, stipitate, 1-2-spored, seldom more than one; spores globose, dark brown, echinate, 18 μ in diam.

Type, No. 196, Harkness Coll.

In sandy places beneath vegetable humus, Auburn, Placer County, Calif., May.

Named in honor of Dr. Gustav Eisen of the California Academy of Sciences.

94. *Tuber (Sphærogaster) olivaceum*, sp. nov.

Semiglobose, 2 cm. in diam., color ferruginous brown, smooth; gleba olivaceous; veins minute; asci ellipsoidal, markedly pedicellate, 2-4-spored; spores globose, echinate, dark brown, 24 μ in diam.

Type, No. 197, Harkness Coll.

Beneath vegetable humus, Auburn, Placer County, Calif., May.

Piersonia, gen. nov.

Integument scabrous or warty; gleba showing a multiplicity of brownish dots, orbicular or gyrose; asci nesting together; spores 3-4, alveolate.

Named in honor of William M. Pierson, a member of the California Academy of Sciences.

95. *Piersonia alveolata*, gen. et sp. nov.

PLATE XLIV, FIGS. 20a-20e.

Diameter 1 cm., integument scabrous, color white, turning to sulphur; gleba firm, citrine, cut surface showing a large number of orange-colored dots; asci clavate, 60 x 80 μ , pedicel elongated (70 μ), 3-4-spored; spores alveolate, citrine, 24 μ in diam.

Type, No. 183, Harkness Coll.

Beneath *Ceanothus*, Auburn, Placer County, Calif., May.

96. *Piersonia scabrosa*, sp. nov.

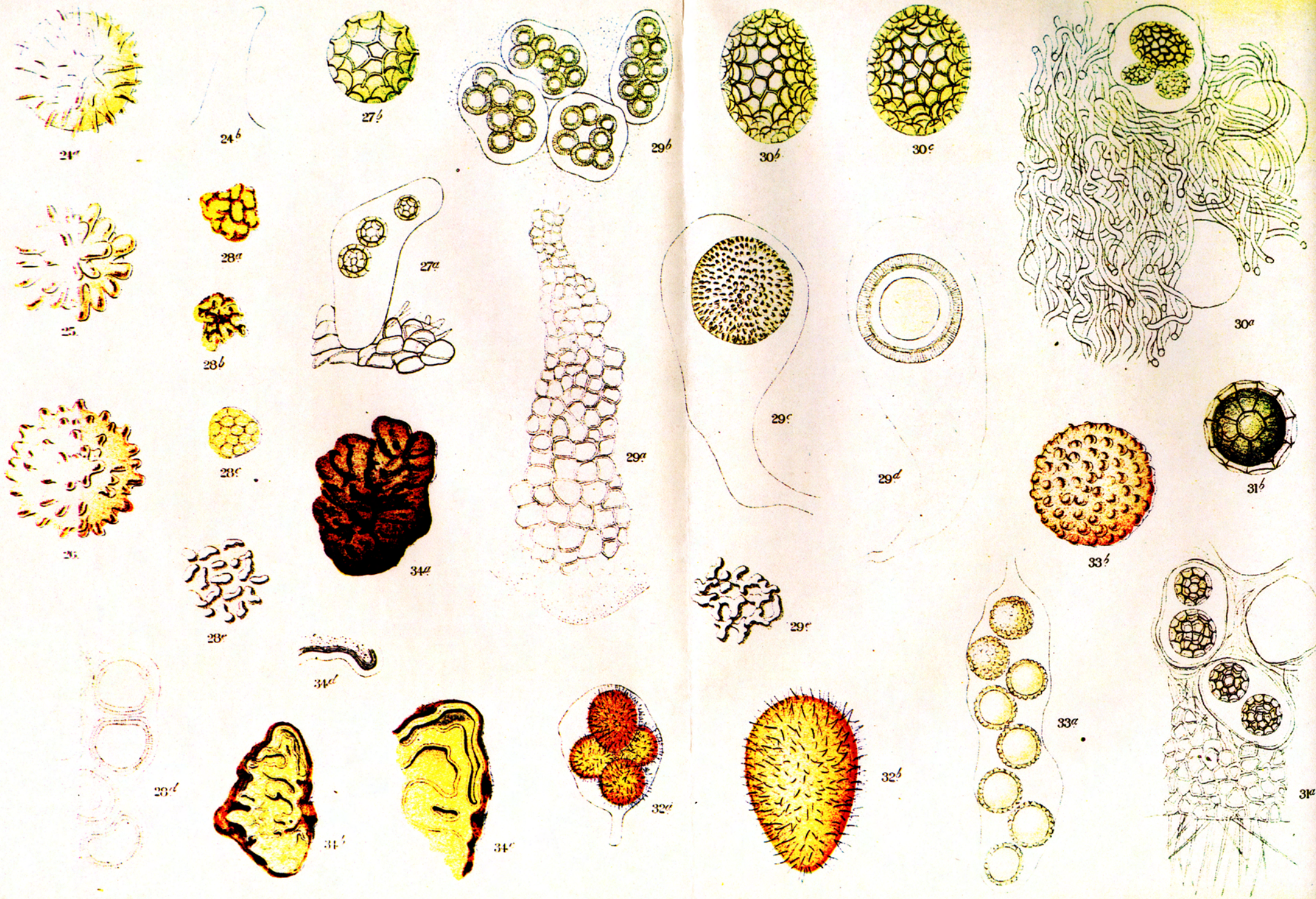
PLATE XLIV, FIGS. 21a-21e.

Semiglobose, irregular, 2 cm. in diam., color chestnut-brown, surface rough; gleba buff; asci obtusely saccate, pedicellate, 4-spored; spores globose, white, alveolate, 20 μ in diam.

Type, No. 201, Harkness Coll.

EXPLANATION OF PLATE XLV.

- Fig. 24. *Terfezia spinosa*, sp. nov.
(a) Isolated spore. (b) Spine on surface of spore.
- Fig. 25. *Terfezia leonis* Tul.
Isolated spore.
- Fig. 26. *Terfezia Zeynebiæ*, sp. nov.
Isolated spore.
- Fig. 27. *Delastria rosea* Tul.
(a) Section of gleba with ascus and spores. (b) Isolated spore.
- Fig. 28. *Myrmecocystis cerebriformis*, gen. et sp. nov.
(a) Fully developed fungus. (b) Vertical section. (c) Detail of surface of fungus. (d) Ascus with spores. (e) Detail of surface of spore.
- Fig. 29. *Myrmecocystis candida*, sp. nov.
(a) Section of gleba. (b) Asci with spores. (c) Isolated spore showing a rough surface. (d) Optical section of spore. (e) Detail of sculptured surface of spore. Asci in *c* and *d* improperly outlined, should appear as in *b*.
- Fig. 30. *Tuber (Eutuber) citrinum*, sp. nov.
(a) Section of gleba with ascus and spores. (b, c) Isolated spores.
- Fig. 31. *Tuber (Sphaerotuber) Califoricum*, sp. nov.
(a) Section of gleba with asci and spores. (b) Isolated spore.
- Fig. 32. *Tuber (Sphaerogaster) candidum*, sp. nov.
(a) Ascus with spores. (b) Isolated spore.
- Fig. 33. *Pachyphloeus carneus*, sp. nov.
(a) Ascus with irregularly serrate spores. (b) Isolated spore.
- Fig. 34. *Geopora magnata*, sp. nov.
(a) Fully developed fungus. (b) Section of fungus. (c) Enlarged section of gleba. (d) Enlarged section of hymenium.



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FIG. 24. TERPEZIA SPINDEA, SP. NOV. FIG. 25. TERPEZIA LEONIS, *Tul.* FIG. 26. TERPEZIA ZEYNEBIAE, SP. NOV. FIG. 27. DELASTRIA ROSEA, *Tul.*
FIG. 28. MYRMECOCYSTIS CEREBRICORNIS, GEN. ET SP. NOV. FIG. 29. MYRMECOCYSTIS CANDIDA, SP. NOV. FIG. 30. TUBER CITRINUM, SP. NOV. FIG. 31. TUBER CALIFORNICUM, SP. NOV.