

Grevillea,

A MONTHLY RECORD OF CRYPTOGAMIC BOTANY,
AND ITS LITERATURE.

NOTICES OF NORTH AMERICAN FUNGI.

By THE REV. M. J. BERKELEY, M.A., F.L.S.

(Continued from Page 71.)

— * **Hydnum (Apus) pulcherimum.** *B. & C.*—Kew Gard. Misc. i. p. 235. Dimidiate, thick-lobed, spongy, between fleshy and fibrous, hirsute, zoned within, margin thin; prickles rather short, awl-shaped. No. 1648. Santee River. Ravenel.

* **Hydnum (Apus) septentrionale.** *Fr.*—No. 5203. Alabama, Peters. On Linden.

— * **Hydnum (Apus) cirrhatum.** *Fr.*—No. 1419. Car. Inf. On oak. No. 4639. Alabama, Beaumont. Ohio, Lea. No. 2860. Car. Inf. On Liriodendron, orbicular, resupinate, spongy beneath, is apparently a resupinate form of one of the three foregoing species.

— 176. **Hydnum (Apus) glabrescens.** *B. & Rav.*—Umbrinum, pileo dimidiato, glabrato, concentric sulcato; aculeis elongatis, acutis, demum compressis. No. 1634. Car. Inf.—Ravenel, on Carya. Ceylon, G. H. K. Thwaites. No. 385. Central Provinces. Pale amber, or reddish-brown, with a paler margin; pileus 1-3 inches across, dimidiate, more or less imbricated, and sometimes elongated, tomentose, gradually becoming smooth, deeply sulcated concentrically; prickles of the same colour as the pileus, acute, more or less compressed, about a line long.

— * **Hydnum (Apus) flabelliforme.** *B.*—After examining a large series of specimens, this appears to be too closely allied to *H. Rhois*, Schwein. Indeed, it approaches so near to unusually thick specimens of *H. ochraceum*, that it is sometimes difficult to distinguish.

— 177. **Hydnum (Apus) plumarium.** *B. & C.*—Pileo conchiformi minuto, candido, villosa, aculeis acutis tomentosis. No. 4936. Car. Sup. On Viburnum.

Pileus 1-2 lines across, white, conchiform, villous; prickles acute, tomentose, pale flesh-coloured. Specimens occur not exceeding.

these in size, resupinate, with the margin reflected, and others nearly an inch across, also resupinate.

* **Hydnum (Resupinatum) fusco-atrum.** *Fr.*—No. 2422. *Car. Inf.* No. 2723. *Car. Inf.* on *Magnolia glauca*.

—178. **Hydnum (Resupinatum) subvelutinum.**—*B. & C.*—Resupinatum, breviter reflexum subvelutinum ferrugineum, aculeis compressis apice pallidioribus subvelutinis. No. 6012. *Penns., Michener.*

Ferruginous. Some inches in breadth, resupinate, with one edge slightly reflected and somewhat velvety; prickles compressed, sometimes compound, paler at the tip, more or less velvety.

* **Hydnum (Resupinatum) membranaceum.** *Bull.*—No. 2025, 2185. No. 2924. *Car. Inf.* No. 935. *Ravenel.*

* **Hydnum (Resupinatum) ferruginosum.** *Fr.*—No. 2105, 2414. *Car. Inf.* 3950. *Penns., Michener.* 4861. *Alabama, Beaumont.*

—179. **Hydnum (Resupinatum) amplissimum.** *B. & C.*—Crassum suberosum, effusum, intus pallidum fibrosum; aculeis subulatis acutis rufis. No. 5323. No. 5383.

New Eng., Sprague. On *Cerasus*.

Effused for several inches, irregular, $\frac{1}{2}$ an inch or more thick, of a firm corky substance, but fibrous when torn across; prickles elongated, subulate, acute, rufous.

—180. **Hydnum (Resupinatum) xanthum.** *B. & C.*—Totum resupinatum tenue margine e subtiliter tomentoso ceraceo, aculeis xanthis sparsis compressis subdivisis ceraceis. No. 2266, 4445. *Car. Inf.* On *Castanea vesca*.

Two or three inches across, at first orbicular, white and delicately tomentose, then waxy; prickles lemon-coloured, scattered, compressed, often compound, tips, when perfect, white and tomentose.

—181. **Hydnum (Resupinatum) Halei.** *B. & C.*—Tenue crustosum, aculeis brevissimis flavis demum obtusatis. No. 3657, 3666. *Louisiana, Dr. Hale.* On *Liriodendron*.

One inch or more across, thin, crust-like, with sometimes a very thin pale margin; prickles short, yellow, at length obtuse. Like many resupinate species difficult of definition, though distinct. *H. armeniacum*, *B. & Rav.* No. 1296, is apparently a younger state of the same species in which the subiculum is more evident.

—182. **Hydnum (Resupinatum) chrysellum.** *B. & C.*—Totum resupinatum hic illic interruptum subiculo candido; aculeis elongatis flavis acutis. No. 3649. *Louisiana, Dr. Hale.*

About an inch across, entirely resupinate, interrupted by the white substratum; prickles elongated, acute, yellow. Allied to the last.

—183. **Hydnum (Resupinatum) chrysdon.** *B. & C.*—Totum resupinatum tenue subiculo e fibrilloso ceraceo; aculeis paucis parvis elongatis acutis flavis. No. 2511. *Car. Inf.* On oak chips.

At first of a delicate fibrillose substance, which gradually acquires a waxy covering, on which the elongated acute yellow prickles are sparingly scattered.

- 184. **Hydnum (Resupinatum) fascicularia.** *B. & C.*—Totum resupinatum ceraceum pallidum; aculeis fasciculatis brevibus obtusis quandoque apice ciliatis. No. 4725. Car. Inf. On Nyssa. (No. 565, 1546, Rav.)

Widely effused, very thin, waxy, inseparable from the matrix, pallid, but varying in tint; prickles fasciculate, short, obtuse, sometimes ciliated at the top as in *Kneiffia*. No. 6105. Alabama, Peters. Specimens on *Carya*, distributed as *H. areolatum* are perhaps an advanced state of this species, in which the prickles are collected in groups, and approaching *H. udum*.

* **Hydnum (Resupinatum) udum.** *Fr.*—No. 2701. Car. Inf. On Acer. 4925. Car. Sup. On oak. (Rav. 935, 1546.)

* **Hydnum (Resupinatum) Himantia.** *Schwein.*—No. 6106. Alabama, Peters. On Fraxinus. Penns., Dr. Michener.

- 185. **Hydnum (Resupinatum) Cookei.** *B.*—Tenue, subliberum, subiculo membranaceo, hic illic byssoideo, fibrilloso; hymenio isabellino; aculeis brevibus obtusis. No. 6051. Car. Inf. On Liquidambar.

Thin, membranaceous, more or less separable from the matrix, here and there bysoid or fibrillose; hymenium of a brownish-buff, with scattered, short, obtuse, small prickles.

- * **Hydnum (Resupinatum) pithyophilum.** *B. & C.*—Kew Gard. Misc. i. p. 235. Resupinate, effused, subiculum very thin, bysoid, farinaceous; prickles ochraceous, compressed, toothed, and lacerated above. No. 1501, 2060, 4811. Car. Inf. No. 5603. Connect., C. Wright. No. 4811, was originally named *H. mellitum*, but it appeared afterwards that it was discoloured by poison.

- * **Hydnum (Resupinatum) ciliolatum.** *B. & C. l. c.*—Resupinate, thin, orbicular, scarcely separable from the matrix; prickles short, compressed, floccoso-ciliate. No. 1464, 2204. Car. Inf. No. 1779, Rav. On *Magnolia glauca*.

- 186. **Hydnum (Resupinatum) læticolor.** *B. & C.*—Late effusum, margine demum separabili subbyssoideo; aculeis late ochraceis compressis subvelutinis apice dentato-laceratis. No. 2930. Car. Inf. 4647, 5166. Alabama, Beaumont. On oak. (No. 894. Car. Inf. Rav.)

Effused for several inches, at length more or less separable at the margin, where it is slightly bysoid or tomentose; hymenium reddish-ochre; prickles compressed, somewhat velvety, toothed and lacerated at the apex. A fine species.

* **Hydnum (Resupinatum) mucidum.** *Fr.*—(No. 1503. Rav.) No. 6058. On Liquidambar. 6103. On *Carya*. Alabama, Peters.

The latter is infested with a *Sepedonium*.

* **Hydnum (Resupinatum) alutaceum.** *P.*—No. 563. Car. Sup. 1143. Car. Inf. (1531, Rav.) No. 3928, 6019. Penns., Michener. No. 4724. Car. Inf. No. 5599. Connect., C. Wright.

- 187. **Hydnum (Resupinatum) velatum.** *B. & C.*—Subiculo tomentoso, albo demum aculeos ceraceos brevibus subfasciculatis obducente. No. 2393. Car. Inf. On pine.

Subiculum white, tomentose, soon running over the short waxy prickles, which are sometimes fasciculate.

- 188. **Hydnum (Resupinatum) nudum.** *B. & C.*—Subiculo fere nullo, vel tenuissimo, farinaceo; aculeis sparsis ceraceis subulatis. No. 2220, 2407, 4489, 4823. Car. Inf. 6221. Wisconsin, Lapham. On Polypori, *Patellaria applanata*, or on pine wood.

Subiculum almost obsolete, or extremely thin and farinaceous; prickles waxy, scattered, subulate, acute, easily coalescing.

* **Hydnum (Resupinatum) plumosum.** *Duby.*—No. 5712. New Eng., Murray. 6047. Car. Inf.

- 189. **Hydnum (Resupinatum) caryophylleum.** *B. & C.*—Totum resupinatum pulveraceum; aculeis in fasciculos subdigitatos conatis. No. 2330. Car. Inf. (1362. Rav.)

Entirely resupinate, white, becoming dingy and somewhat umber when old, pulverulent; prickles joined into distinct, somewhat digitate, flat, petal-shaped bundles.

- 190. **Hydnum (Resupinatum) fragilissimum.** *B. & C.*—Fragile, subiculo byssoideo, hic illic fibrilloso-repente; hymenio ceraceo aculeis brevibus subulatis. No. 2608. Car. Inf.

Extremely brittle when dry; subiculum white, byssoid, with a few creeping fibres; hymenium waxy; prickles short, distinct.

- 191. **Hydnum (Resupinatum) Nyssæ.** *B. & C.*—Subiculo eximie pulverulento; aculeis elongatis subulatis acutis quandoque apice fimbriatis. No. 3716, Car. Inf. 4362. Penns., Michener.

Subiculum copious, pulverulent; prickles elongated, subulate, acute, sometimes pencilled at the tip. Whole plant dry, of a dull buff.

- 192. **Hydnum (Resupinatum) parasitans.** *B. & C.*—Parasiticum, aculeis brevibus compressis obtusis. No. 6113. Alabama, Peters. On *Ulmus Americana*.

Parasitic on the teeth of some *Hydnum*; subiculum obsolete; prickles short, compressed, obtuse. -

- 193. **Hydnum (Resupinatum) setulosum.** *B. & C.*—Subiculo candido lacteo membranaceo; aculeis flexuosis subulatis acutis subtiliter sutuloris. No. 6086. Alabama, Peters. On Liquidambar.

Subiculum membranaceous, white, forming a broad border to the hymenium, which is quite confined to the centre; prickles wavy, subulate, minutely setulose under a lens. A very distinct species.

- 194. **Hydnum (Resupinatum) Murrail.** *B. & C.*—Subiculum membranous, thin, white; prickles scattered, subulate, acute; of a pinkish ochre. No. 5707. New Eng., Murray.

On very rotten wood. Subiculum, spreading widely, very thin, membranaceous, slightly byssoid and pulverulent; prickles scattered, of a reddish tint, subulate, smooth.

This species, perhaps, should come next to *H. Cookei*. It is, however, very difficult to say what is the colour of the prickles when fresh.

- 195. **Hydnum (Resupinatum) Micheneri.** *B.*—Subiculo e floccis intertextum hic illic fibrillis repentibus; aculeis verrucæformibus brevibus apice subciliatis. No. 4368. Penns., Michener.

Entirely resupinate; subiculum composed of interwoven flocci, which here and there send out creeping threads; aculei verrucæform, the tips sometimes minutely ciliated. This species approaches *Kneiffia*.

- 196. **Hydnum (Resupinatum) ischnodes.** *B.*—Subiculo e floccis intertextum hic illic fibrillis repentibus; aculeis subulatis gracilibus. No. 6093.

Subiculum as in the last, but the hymenium totally different; prickles slender, waxy, subulate or nearly cylindrical, almost rufous when dry.

* **Hydnoglæum gelatinosum.** *Cur.*—No. 2420. Car. Inf. On pine.

This is *Hydnum gelatinosum*, Scop., but differs materially in structure from *Hydnum*. There are two or three other species.

* **Hericium hystrix.** *Fr.*—No. 1751. Car. Inf.

* **Irpex pendulus.** *Fr.*—No. 3038, 3722. Car. Inf.

* **Irpex fusco-violaceus.** *Fr.*—No. 3937, 4269. Penns., Michener.

* **Irpex lacteus.** *Fr.*—No. 2199. Car. Inf. On oak.

- * **Irpex mollis.** *B. & C.*—Kew Gard. Misc. i. p. 236.

Pileus dimidiate, plane; coriaceous, dirty white, tomentose; prickles long, compressed, tips subulate or dilated. No. 1729. Car. Inf. (1744. Rav.), No. 3203. Car. Inf. In some specimens the pileus is decurrent behind, or resupinate.

- * **Irpex crassus.** *B. & C.*—Thick, corky; adnate behind and decurrent, subimbricate; pileus finely pubescent, zoned within, teeth lamellar, somewhat fimbriated at the tips. Two inches thick, teeth $\frac{1}{3}$ – $\frac{1}{2}$ inch long.

No. 170, Car. Sup. 3072, 3261. Sartwell, 3371, 3394. Massac. 3506. Penns., Michener.

* **Irpex sinuosus** *Fr.*—No. 5593. 5600. Connect., C. Wright.

- 197. **Ispex coriaceous.** *B. & Rav.*—Pileo dimidiato portice decurrente imbricato tabacino concentricè sulcato tomentoso; dentibus ferrugineis compressis. (No. 1111. Rav.) Car. Inf.

Pileus tobacco-coloured, coriaceous dimidiate, decurrent behind; concentrically sulcate, $1\frac{1}{2}$ -2 inches across; teeth short, irregular, compressed, with a greenish bloom. This is *Hydnum trachyodon*. Lév. From Bogota. It is found also in Cuba.

- 198. ***Irpex tabacinus***. *B. & C.*—Breviter reflexus subzonatus pubescens postice longe decurrens late tabacinus. Hymenio concolore; dentibus compressis. No. 2358, 2932. Car. Inf. 2922. Car. Inf. A Polyporoid form. No. 3152. Texas, C. Wright (1088. Rav).

Shortly reflexed, imbricated, decurrent behind, velvety, sometimes zoned, bright brown; hymenium of the same colour; teeth compressed. Allied to the last, but the teeth have not the bloom of that species, and the pileus is less dimidiate.

- 199. ***Irpex pityreus***. *B. & C.*—Parvus, brunneus; pileo conchiformi subvelutino sericeo, ezonato; hymenio concolore; dentibus compressis. No. 6329. Rhode Island, Bennett.

Pileus scarcely $\frac{1}{2}$ inch across, conchiform, brown, somewhat velvety, silky towards the margin; hymenium of the same colour; teeth compressed. Allied to the two last.

* ***Irpex cinnamomeus***. *Fr.*—No. 1005, 1006, 1642, 1978. Car. Inf. No. 436, 447, 875. Car. Sup.

- 200. ***Irpex Schweinitzii***. *B. & C.*—Resupinatus, subiculo membranaceo, separabili, margine sterili, brevi, byssoideo; dentibus carneo-griseis compressis. No. 4655. Alabama, Beaumont.

Scarcely exceeding $\frac{1}{2}$ an inch in breadth; suborbicular; subiculum thin, membranaceous, byssoid, separable from the matrix; teeth confined to the centre, compressed, pinkish-grey, subporiform.

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SCHISTOSTEGA OSMUNDACEA.—Your correspondent (W. W. Reeves) is in error concerning this moss, as I find it abundantly at Guildford, in the holes made by sand martins. It was first pointed out to me by the celebrated cryptogamist, Mr. Borrer, in 1852-3.
E. CAPRON.

Uromyces Behenis. *Lev.*—"Campion *Uromyces*." On both surfaces of the leaves, and on the stems; pustules subrotund or confluent, for a long time covered by the cuticle; spores coherent, ovoid, brown, on long hyaline pedicels.—*Leveille. Ann. Des Sc. Nat.* viii. (1847), pp. 371 *Kickx. Fl. Crypt.* ii., p. 75. *Uredo behenis*, *D.C. Fl. Fr.* vi., p. 63. *Cæoma behenis*, *Link. Sp.* ii., 27.

On *Silene inflata* in company with *Æcidium behenis*. Near Chichester (Dr. Paxton). Aug.