

## NEW CALIFORNIAN FUNGI.

By J. B. ELLIS AND B. M. EVERHART.

**Dimerosporium echinatum**, E. & E.

On living leaves of *Quercus chrysolepis*, Jackson, Amador Co., Calif., Coll. Geo. Hansen, com. Marshall A. Howe.

Epiphyllous, forming dense orbicular patches 3 to 4 mm. diam., made up of the densely crowded, bristly, black, ovate perithecia, 200 to 300  $\mu$  diam., arising from a scanty, sparingly branched, septate, creeping mycelium, and thickly clothed with opaque, black bristles 70 to 110  $\mu$  long, 5 to 7  $\mu$  thick at the base. Asci clavate-cylindrical, short-stipitate, paraphysate, 8-spored, p. sp. 50 to 55 x 15  $\mu$ . Sporidia mostly biseriate, ovate, uniseptate and slightly constricted, yellow, 12 to 15 x 6 to 7  $\mu$ .

The perithecia are soon broadly perforated above, and the orbicular patches which they form often cover the entire surface of the leaf.

**Metasphaeria Illicis**, E. & E.

On dead and living leaves of *Ilex Aquifolium*, Berkeley, Calif., March, 1893, W. C. Blasdale No. 86.

Epiphyllous. On the living leaves the perithecia are thickly scattered on large (1 cm.), white (reddish-brown below) orbicular spots with a narrow reddish-brown border, but on the dead leaves they are spread evenly over the whole surface of the leaf, not in spots. Perithecia globose, about  $\frac{1}{3}$  diam., the apex strongly erumpent and covered by the mostly stellately cleft epidermis, above which the papilliform ostiolum scarcely projects. Asci oblong, abruptly contracted at base into a short nodular stipe, mostly narrower above. Paraphyses stout, septate below, attenuate above, but slightly enlarged at the tip. Sporidia biseriate, clavate-oblong, about 4-septate, strongly constricted at the second septum, but not at the others, hyaline, straight, obtuse, narrower below, 15 to 27 x 6 to 7  $\mu$  (mostly not over 20  $\mu$  long).



**Eutypella aesculina, E. & E.**

Perithecia subcircinate, 3 to 8 together globose,  $\frac{1}{2}$  mm. diam., with thick, coriaceous walls, black and shining within, buried in the inner bark which is more or less blackened, but without any distinct circumscribing line, their bases slightly penetrating the wood which is not discolored. Ostiola short-cylindrical or clavate-cylindrical, faintly sulcate or often smooth, united in a dirty black disk erumpent through the epidermis which is scarcely raised. Asci (p. sp.) clavate,  $20 \times 4 \mu$ , 8-spored, with a slender base, and indistinctly paraphysate. Sporidia biserial above, allantoid, hyaline (slightly yellowish in the mass),  $3\frac{1}{2}$  to  $4\frac{1}{2} \times 1\frac{1}{4} \mu$ , moderately curved. On dead limbs of *Aesculus Californica*, California, W. C. Blasdale.

**Pseudovalsa subrufa, E. & E.**

On dead limbs of *Rhus* sp., Berkeley, Calif., Feb. 1893, W. C. Blasdale No. 62.

Stromata plano-convex,  $1\frac{1}{2}$  to 2 mm. diam., the base lightly penetrating the inner bark, evenly scattered. Perithecia 6 to 10 in a stroma, closely packed, dark brown, thick walled, about  $\frac{1}{2}$  mm. diam., the inner cavity 300 to 400  $\mu$  diam., covered above by the reddish substance of the stroma, contracted into slender, converging necks terminating in the large ( $\frac{1}{2}$  mm.), subglobose, irregularly perforated, reddish-brown ostiola united in a compact cluster erumpent through the closely embracing epidermis. Asci clavate-cylindrical, 75 to 85  $\times$  7  $\mu$ , paraphysate, 8-spored, sessile. Sporidia uniseriate, oblong, 3-septate, scarcely or only slightly constricted, brown, 12 to 15  $\times$  4 to 5  $\mu$ .

The reddish tint of the ostiola and of the inner substance of the stroma is very distinct at first but finally becomes more obscure.

**Phyllosticta agrifolia, E. & E.**

On leaves of *Quercus agrifolia*, Berkeley, Calif., W. C. Blasdale No. 107.





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