

LICHENS FROM WARWICK AND NEIGHBOURHOOD.

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THE following lichens, of which a few are new to science, were gathered from the southern portion of the Darling Downs by Mr. C. J. Gwyther, whose numbers have been appended. Descriptions of new species, and notes on rare lichens or lichens new to Queensland are also supplied.

Order I.—COLLEMACEÆ, *Mull. Arg.*

TRIBE I.—COLLEMEÆ, *Körb.*

Physma byrsinum, *Ach.*, n. 358 pro p. and n. 379. A small and stunted form, but not otherwise differing.

Leptogium tremelloides, *L.*, n. 358 pro p. and n. 373.

Order II.—EPICONIACEÆ, *Mull. Arg.*

TRIBE II.—CALICEÆ, *Mull. Arg.*

Calicium glebosum, *Mull. Arg.* The thallus is greenish glaucous and the spores, $\cdot 005 - \cdot 006 \times \cdot 002$ mm., are smaller than the type, but there is no doubt about the identity, n. 335.

Order III.—LICHENACEÆ, *Mull. Arg.*

TRIBE III.—CLADONIEÆ, *Mull. Arg.*

Cladonia fimbriata, *Del.*, n. 363.

Clathrina aggregata (Sw.) *Mull. Arg.*, n. 357.

TRIBE IV.—USNEÆ, *T. M. Fries.*

Usnea barbata, *Ach.*, n. 392 pro p.

Usnea barbata v. *dasypoga*, *Fr.*, n. 369.

TRIBE V.—RAMALINEÆ, *T. M. Fries.*

Ramalina Eckloni, *Mnt.*, n. 392 pro p. and n. 360 pro p.

Ramalina leiodea, *Nyl.*, n. 360 pro p.

Ramalina minuscula v. *alba*, *C. K.*, n. 360 pro p.

Thamnolia vermicularis, *Sw.* Thallus consisting of stipites or podetia, which are $1\frac{1}{2}$ inch long, cylindrical or subcompressed; cornute, imperforate, chalky-white or sordid whitish, ascending or erect, simple or bifurcate, smooth or longitudinally rugulose, internally fistulose. Sterile. n. 414.

TRIBE VI.—PARMELIÆ, *Mull. Arg.*

Stictina retigera (Ach.) *Mull. Arg.*, n. 371 pro p.

Stictina quercizans, *Ach.*, n. 371 pro p.

Sticta pulmonacea, *Ach.*, n. 371 pro p.

Sticta aurata, *Ach.*, n. 371 pro p. and n. 380.

Ricasolia plurimiseptata, *C. K.*, n. 383, and n. 372 pro p.

Ricasolia Hartmanni, *Mull. Arg.*, n. 372 pro p.

Parmelia revoluta, *Flk.*, n. 376 pro p.

Parmelia tenuirima v. *corallina*, *Mull. Arg.*, n. 334

Parmelia tinctorum, *Despr.* Published in Dr. Jean Müller's "Lichenologische Beiträge," n. 191, as *P. praetervisa*, *Mull. Arg.*, n. 362 pro p.

Parmelia laceratula v. *minor*, *Shirley*, var. nov. Differs from the type in the thallus being almost coralloid-dissect at the margins and in the smaller spores, which are $\cdot 01 \times \cdot 004$ mm. n. 367, 332, 362, and 361 pro p. and 373. Species first collected by Baron F. v. Mueller in Moreton Bay, but not reported since 1860.

Parmelia caperata, *L.*, n. 376 pro p. and 361 pro p.

Parmelia physodes, *Ach.*, n. 372 pro p.

Parmelia limbata, *Laur.*, n. 387.

Theloschistes chrysophthalmus v. *Sieberianus*, *Laur.*, n. 382 pro p.

Theloschistes chrysophthalmus v. *leucoblepharus*, *Mull. Arg.*, n. 382 pro p.

Theloschistes chrysophthalmus v. *alatus*, *Shirley*, var. nov., n. 382 pro p. Described in Bulletin No. 7, Department of Agriculture, Brisbane, p. 32, as *Physcia comosa* v. *alata*, *Wilson*, but the specimens named above show all the gradations from

v. *alatus* through v. *leucoblepharus* and v. *Sieberianus* to the typical form.

Anaptychia leucomelæna, *Fries.*, n. 356.

Anaptychia speciosa, *Wainio.*, n. 366.

Physcia picta, *Sw.*, n. 365 pro p. and 367 pro p.

Physcia stellaris, *L.*, n. 385.

TRIBE VII.—PANNARIEÆ, *Körb.*

Coccocarpia aurantiaca (Mnt.) *Ach.*, n. 364 pro p.

TRIBE VIII.—PSOROMEÆ, *Mull Arg.*

Psoroma sphinctrinum, *Nyl.*, n. 377.

TRIBE IX.—LECANOREÆ, *Mull. Arg.*

Lecanora Queenslandiæ, *C. K.*, n. 385 pro p.

Lecanora caesio-rubella, *Ach.*, n. 368.

TRIBE X.—LECIDEÆ, *Mull Arg.*

Patellaria (*Bacidia*) *multiseptata*, *Shirley*, sp. nov.
Thallus cinereous, opaque, rugose, diffract; apothecia cinereo-suffused or naked, from sordid carneous to fusco-atrous; when young plane, and with thickish thalline margin—the margin faintly crenulate and roughened; when mature, plano-convex and with margin obscured; spores eight, narrow acicular-clavate, 12-21 septate, broad at one end and very finely acuminate at the other, the thickest part about the fifth segment from the blunt end; paraphyses not readily separating.
n. 376 pro p.

Buellia tetrapla, *Mull. Arg.* Thallus thin, cinereous, opaque, sparingly fissured, surface uneven, from glebulose to rugose; apothecia black; 3.5 mm., from innate when young to closely adnate when mature, disk plane, margin persistent and slightly tumid; spores 8, brown, broadly ovate, bilocular, 0.009 x 0.0045 mm. n. 365 pro p. and 336.

Buellia parasema v. *saprophila*, *Körb.*, n. 398 pro p.

TRIBE XI.—DICHONEMEÆ, *Mull. Arg.*

Dichonema sericeum, *Mnt.*, n. 412.

TRIBE XII.—THELOTREMEÆ, *Mull. Arg.*

Leptotrema Wightii (*Nyl.*) *Mull. Arg.*, n. 333.

TRIBE XIII.—GRAPHIDEÆ, *Mull. Arg.*

Graphina (*Aulacographina*) *tenuirima*, *Shirley*, sp. nov.
Thallus albido-cinereous, opaque, even but not smooth; lirellæ numerous, crowded, straight or flexuous or curved, simple or pauciramose, 1-2 mm. long, sulcate, terminations acuminate, lips gaping, disk nude, rimiform, black; spores 5-septate, each loculus with 1-3 locelli, $\cdot 027 \times \cdot 01$ mm., ovate oblong or pupæform, hyaline; paraphyses short, slender, readily separating, of globular cellules. n. 388.



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