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L.—Notulæ Lichenologicæ. No. XXXIV

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A. variegatus that I should be sorry to make a new species out of it without further evidence.

Dr. Gray gives no locality or other particulars concerning this specimen, simply stating that it has been "received" by the British Museum. I may therefore add that it was obtained by the Hon. A. Gordon, lately Governor of Trinidad, from the upper part of the Caura river, a southern confluent of the Orinoco, and presented alive to the Society's collection on the 14th of July last. It died on August 18th, and was sent to the British Museum.

L.—*Notulæ Lichenologicæ*. No. XXXIV.

By the Rev. W. A. LEIGHTON, B.A., F.L.S., F.B.S. Ed.

Notes on the Chemical Reaction in the British species of Pertusaria.

IN preparing my 'Lichen-Flora of Great Britain' I have had occasion to devote a good deal of attention to the genus *Pertusaria*, and have discovered that in no series of lichens do the chemical reagents give more important or more beneficial results. By their means we are not only enabled to define the limits of the species themselves, but also definitely and satisfactorily to allocate the forms comprised in the old pseudo-genera of *Variolaria* and *Isidium*, which have ever proved a sort of *cruz* to lichenists, and have consequently performed a continual migration from one genus to another. My proposed arrangement is as follows:—

A. *Thallus* K yellow, then orange-red.

1. *P. multipunctata* (Turn.), E. Bot. 2061. *Variolaria multipunctata*, T. & B. ! Lich. Br. 73.
2. *P. Westringii* (Ach.). *P. lactescens*, Mudd !, Man. 272. *Isidium Westringii*, T. & B. ! Lich. Brit. 93 ; E. Bot. 2204.
3. *P. glomerata* (Schleich.).
4. *P. ceuthocarpa* (Sm.), E. Bot. 2372. *Isidium microsticticum*, T. & B. ! Lich. Br. 94.
5. *P. dealbata* (Ach.), E. Bot. 1541 & 1511. *Isidium paradoxum* ! and *corallinum* ! and *coccodes* ! α & β , T. & B. Lich. Brit. 97, 100, 89. *Variolaria chlorothecia*, Tayl. ! Fl. Hib. 2. *P. syncarpa*, Mudd !, Man. 273.

B. *Thallus* K yellow, C yellow.

6. *P. communis*, DC., E. Bot. 677 ; and forma *rupestris*, DC.

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7. *P. dactylina* (Ach.), Fellm. 144. *Isidium*, Ach. Syn. 282.

C. *Thallus* K yellow, C reddish orange.

8. *P. bryontha* (Ach.), Th. M. Fr. 9; Fellm. 142; Arn. 108.

9. *P. melaleuca* (Sm.), E. Bot. 2461.

10. *P. fallax* (Pers.), E. Bot. 1731 & 1529. *Thelotrema hymeneum*, T. & B.! Lich. Br. 185. *Isidium lutescens*, T. & B.! l. c. p. 87.

D. *Thallus* K yellow, C crimson.

11. *P. gyrocheila*, Nyl. in Flora, 1865, p. 354.

E. *Thallus* K—, C crimson.

12. *P. velata* (Turn.), E. Bot. 2062. *Variolaria lactea*, T. & B.! Lich. Br. 69; E. Bot. 2410. *Variolaria aspergilla*, T. & B.! l. c. 67; E. Bot. 2401. *Variolaria conspurcata*, T. & B.! l. c. 55; E. Bot. 964. *Isidium coccodes* β , T. & B.! l. c. 89.

F. *Thallus* K—, C rose-colour.

13. *P. faginea* (L.), E. Bot. 1713. *Variolaria*, T. & B.! l. c. 64. *Variolaria ilicea*, Lyell!, MS. in Herb. Borrer.

G. *Thallus* K—, C—.

14. *P. ophthalmiza*, Nyl.! Scand. 180. In Herb. Borrer at Kew is an Irish specimen labelled, in Dr. Taylor's handwriting, *P. constellata*, Tayl., which appears identical with this.

15. *P. globulifera* (Turn.), E. Bot. 2008 & 1714. *Variolaria*, T. & B.! l. c. 59. *Variolaria discoidea*, T. & B.! l. c. 61.

16. *P. Hutchinsiae* (Turn. & Borr.), E. Bot. Suppl. 2652. *Thelotrema*, T. & B.! l. c. 178.

17. *P. glomulifera*, Borr.!, Leight. Ang. Lich. 30, t. 11. f. 2.

18. *P. pustulata* (Ach.), Leight. Ang. Lich. 30, t. 10. f. 4.

19. *P. leioplaca* (Ach.).

20. *P. nolens*, Nyl.! in Flora, 1864, p. 489.

H. *Thallus* K brownish, C —.

21. *P. fastigiata* (Turn. & Borr.). *Isidium oculatum* β . *fastigiatum*, T. & B.! l. c. p. 103. *Variolaria polythecia*, Tayl.! Fl. Hib. 2. 114.

22. *P. sublactea*, Leight., n. sp. *Variolaria lactea*, in Herb. Borrer!, and plant spoken of in T. & B. Lich. Brit. p. 72.