

thum der genannten Luftwurzeln bis zu einem Optimum ( $L$ . im Mittel =  $\frac{1}{8}$ ), um mit weitersteigender Lichtintensität bei einem Lichtmaximum ( $L$ . im Mittel =  $\frac{1}{2.5}$ ) zu erlöschen.

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## Congresse.

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### Meeting of the British Association, Liverpool.

Vortrag vom 14. September 1896.

#### P. Magnus:

On some Species of the *Chytridiaceous* Genus *Urophlyctis*.

The author maintains the genus *Urophlyctis*, established by J. Schroeter, in opposition to the opinion of Alfred Fischer. He describes the development of the species *Urophlyctis Kriegeriana*, occurring in *Carum carvi*, established by him some years ago, and shows that its spores are formed by the conjugation of two cells, arising from different filaments, and that the development of the fungus takes place within a single cell of the host, namely, the central cell of the gall produced by it, which is of limited growth. The author proves that the fungus observed by Tra but in Algiers, which causes large swelling on beetroots, also belongs to this genus *Urophlyctis*. It was described by Tra but and also by Saccardo and Mattiolo as one of the Ustilagineae (*Oedomyces leproides* Trab.). The author proves that its spores are likewise formed by the conjugation of two cells, arising from different filaments, exactly as in *Urophlyctis*. While these observers state that the fungus develops in individual cells of the tumours caused by it, the author shows that the cells containing the fungus are connected with one another by canals of variable length and width, and that hence the cells containing the fungus are only outgrowths and branches of one and the same cell. The species only differs from *Urophlyctis Kriegeriana* in the unlimited growth of the gall, which corresponds to the continued ramification of the cell attacked by the fungus.

Finally, the author deals with the development of the gall of *Urophlyctis pulposa*, which differs from that of the species already described.

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## Instrumente, Präparations- und Conservations- Methoden.

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**Strasburger, E.**, Das botanische Practicum. Anleitung zum Selbststudium der mikroskopischen Botanik. Für Anfänger und Geübtere. Zugleich ein Handbuch der mikroskopischen Technik. 3. Aufl. gr. 8°. XLVIII, 739 pp. Mit 221 Holzschnitten. Jena (Gustav Fischer) 1897. M. 20.—, geb. 22.50.

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Zoologisch-Botanische Datenbank/Zoological-Botanical Database

Digitale Literatur/Digital Literature

Zeitschrift/Journal: [Botanisches Centralblatt](#)

Jahr/Year: 1897

Band/Volume: [69](#)

Autor(en)/Author(s): Anonymous

Artikel/Article: [Congresse. Meeting of the British Association, Liverpool. 319](#)