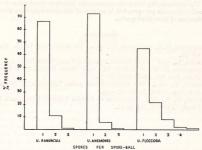
Urocystis floccosa in Britain

BY

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In a previous note (Henderson & Wilson, 1952, p. 73) it was pointed out that the fungus on Trollius and Ramunculus ficaria was readily distinguishable from Urocytiis anemones on Anemone nemorosa and should be known as Tuburcinia ficariae (Unger) Liro. Since that paper was prepared the proposal to conserve Urocytiis Rabenh. ex Fuckel against Tuburcinia Fr. has been adopted by the special committee for fungal nomenclature (Rogers, 1953) although not yet approved by a full International Botanical Congress,



Percentage frequency distribution of 1-, 2-, 3-, 4- and 5-spored spore-balls of Urocystis ranunculi, U. anemones and U. floccosa in samples of 200 spore-balls,

The following new combination is therefore necessary.

Urocystis ficariae (Unger) Henderson, comb. nov.

Basonym: Caeoma ficariae Unger, Die Exantheme der Pfl. 133 (1833). Similarly the species with which this note is concerned becomes:—

Urocystis floccosa (Wallr.) Henderson, comb. nov.
Basonym: Erycibe floccosa Wallr. Fl. Crypt. Germ. ii, 212 (1833).

Urocystis floccosa on various species of Helleborus is generally distributed throughout central Europe (Ciferri, 1938) and has recently been recorded in Scandinavia (Jørstad, 1943). In Ainsworth & Sampson's (1950) recent publication "British Smut Fungi," there is no record of any smut on this host genus in Great Britain, although two possible host species with rather sparse distribution occur, namely, Helleborus foetidus and H. viridit.

Recently a specimen labelled "Ustilago, on Helleborus viridis, Coldashton Mill" was found in a duplicate set of C. E. Broome's exsiccati in the Edinburgh Herbarium. There seems little doubt that this is in fact a British collection from Cold Ashton, five miles north of Bath where Broome lived for many vears.

Broome's material on Helleborus viridis matches continental collections on H. viridis and H. foetidus but differs from Urocystis anemones and U. ficariae.

Jorstad (1943, p. 237) has shown that within the closely related group of fungi on Anemone nemorosa, Ramunculus repens and Helleborus characterised by a continuous layer of sterile cells surrounding the spores and the frequent occurrence of single spores, three morphologically distinguishable taxa are recognizable. Urocystis anemones on Anemone nemorosa and Ur. ramunculi on Ramunculus repens usually have one or two, rarely more spores per spore-ball, whereas Urocystis flocosa on Helleborus spp. has a considerable proportion of three-spored balls and some with four spores.

The accompanying histogram expresses the frequency distribution of the number of spores per spore-ball in samples of 200 spore-balls from British

collections of these three species.

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