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On: 15 March 2015, At: 15:22

Publisher: Taylor & Francis

Informa Ltd Registered in England and Wales Registered Number:
1072954 Registered office: Mortimer House, 37-41 Mortimer Street,
London W1T 3JH, UK

Transactions of the Botanical Society of Edinburgh

Publication details, including instructions for authors and subscription information:

<http://www.tandfonline.com/loi/tped18>

IV. List of Desmideæ observed in the neighbourhood of Dundee

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Published online: 01 Dec 2010.

To cite this article: W. M. Ogilvie (1858) IV. List of Desmideæ observed in the neighbourhood of Dundee , Transactions of the Botanical Society of Edinburgh, 5:1-4, 221-221, DOI: [10.1080/03746605809467670](https://doi.org/10.1080/03746605809467670)

To link to this article: <http://dx.doi.org/10.1080/03746605809467670>

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the same growth in *Favus*, with a recent specimen of which it was compared. I have not yet had an opportunity of making inquiries at other breweries, but I have little doubt that instances of a like nature will be found.

Since the preceding communication was read, I have observed in the yeast cell one of these interesting phenomena, which has caused much speculation among botanists. I mean the movements of granules in the interior of cells. In this instance, after the yeast has been added two or three hours to the wort and is in full activity, the nucleus may be seen wandering round and round within the cell. The course is generally uniform, completing the circle and passing from right to left, as seen under the microscope. Sometimes, however, it fails to complete the circle, but makes a short diametrical cut. I failed to perceive anything like ciliary action in the cell, and the motion appeared to me to be due to the imbibition and change of fluids.

EXPLANATION OF PLATE.

PLATE VI.

Fig. 1. Yeast-cells one hour after being added to *Distillery Wash*.

2. The same after two hours.

(a) Moving nucleus.

3. The same after twelve hours.

(aa) Moving nuclei.

4. Surface yeast from a Brewery fifteen hours after addition to the Wort.

(Temp. 68°—64° Fahr.; sp. gr. 1.086.)

5. (a) The same on second day.

(b) Sedimentary ditto.

(Temp. 66° Fahr.; sp. gr. 1.070.)

6. The same on third day.

(a) Surface. (b) Sedimentary.

(Temp. 60° Fahr.)

7. The same after being removed from the Wort and left for several days in a cask.

8. Yeast attached to the side of a tin vessel used for taking samples.

For the remaining stages in the development of this plant, *vide* paper on "*Achorion Schönleinii*."

IV. *List of Desmidiæ observed in the neighbourhood of Dundee.* By W. M. OGILVIE. Communicated by Dr G. LAWSON.

This list embraced upwards of 50 species, many of them rare.