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Transactions of the Botanical Society of Edinburgh

Publication details, including instructions for authors and subscription information:

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

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Mr John Sadler

Published online: 01 Dec 2010.

To cite this article: Mr John Sadler (1860) IV.—Accounts of Professor Balfour's Botanical Trip, with Pupils, to Moncreiffe and Kinnoull Hills in Perthshire , Transactions of the Botanical Society of Edinburgh, 6:1-4, 424-424, DOI: [10.1080/03746606009467781](https://doi.org/10.1080/03746606009467781)

To link to this article: <http://dx.doi.org/10.1080/03746606009467781>

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IV.—Account of Professor Balfour's Botanical Trip, with Pupils, to Moncreiffe and Kinnoull Hills in Perthshire. By Mr JOHN SADLER.

About 160 botanical students left Edinburgh on the morning of 16th June last for the Bridge of Earn; whence, after breakfasting, they walked by Moncreiffe, Kinfauns, and Kinnoull to Perth.

The principal plants observed by the party were—*Nymphæa alba*, *Montia fontana*, *Villarsia nymphæoides*, *Lemna trisulca*, *Alisma Plantago*, at Moncreiffe Loch; *Epipactis latifolia*, *Hesperis matronalis*, *Scrophularia vernalis*, *Symphylum tuberosum*, *Erodium cicutarium*, *Geranium columbinum*, *Geranium sanguineum*, *Peucedanum Ostruthium*, *Mimulus luteus*, and *Mentha sylvestris* var. *velutina*, in the woods and on the Hill of Moncreiffe; *Lactuca virosa*, *Dipsacus sylvestris*, *Hesperis matronalis*, *Cheiranthus Cheiri*, *Sedum Telephium*, *Fumaria micrantha*, *Malva moschata*, *M. rotundifolia*, *Geranium pyrenaicum*, *Myrrhis odorata*, *Trifolium arvense*, *T. striatum*, *Potentilla argentea*, *Valerianella Olitoria*, *Poterium Sanguisorba*, *Rosa systyla*, *R. villosa*, *Cynoglossum sylvaticum*, *Lamium maculatum*, *Inula Helenium*, &c., at Kinnoull, and near Bridge End.

V. On the Structure and Development of *Botrydium granulatatum*. (Plate XII.) By GEORGE LAWSON, Ph.D., Professor of Chemistry and Natural History in the University of Queen's College, Kingston, Canada.

In prosecuting an examination of the freshwater Algæ of Lake Ontario, I have had a good deal of trouble in arriving at satisfactory results regarding a little plant growing on the lake shore, which I now believe to be identical with the "Bladder-headed Laver" found by Dillenius between "Newington et Hackney, prope Londinum." I presume, also, that it is identical with *Botrydium* (*Hydrogastrum*) *granulatum* of more modern botanists, although the conflicting descriptions and figures contained in works presently within my reach are by no means so satisfactory as the account given by the old cryptogamist of the last century. This, indeed, is the reason why I seek to place on record what I conceive to be a true explanation, so far as it goes, of the structure, mode of vegetation, and reproduction of this little plant, which seems to be as interesting to the botanist as *Amœba* is to the zoologist, a striking example of the manifold physiological phenomena that may be enacted by the very simplest apparatus of life.*

* Lindley observes—"One of the most remarkable plants of the order *Fucaceæ* is *Hydrogastrum*, which Endlicher describes as a perfect plant, with root, stem,