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I. On the Production of Ergot on Rye

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39. *J. (Radula, Nees) complanata*, L. Moness Woods. Common.

40. *J. (Madotheca, Dumort) lævigata*, Schr. Black Wood, Glen Lyon.

41. *J. (Madotheca) platyphylla*, L. Black Wood, Glen Lyon, and Moness Woods.—Var. *Thuja*. Black Wood, Glen Lyon.

42. *J. (Lejeunia, Gottsche) serpyllifolia*, Dicks. Moness Woods. Plentiful.—Var. β . *ovata*, Hook. Moness Woods. Very rare.

43. *J. (Lej.) hamatifolia*, Hook. On birch trees, Moness Woods.

44. *J. (Frullania, Raddi) Tamarisci*, L. Common on rocks and trees.

45. *J. Blasia*, L. (*Blasia pusilla*, Mich.) Moness Woods, and Chesthill, Glen Lyon.

46. *J. (Pellia, Raddi) epiphylla*, L. Moness Burn.

47. *J. (Pellia) calycina*, Tayl. Moness Burn.

48. *J. (Aneura, Dumort) pinguis*, L. Moness Burn.

49. *J. (Aneura) multifida*, L. Moness Woods.

50. *J. (Metzgeria, Raddi) furcata*, L. Moness Woods.—Var. γ . *æuginosa*. Moness Woods.

51. *J. (Metzgeria) pubescens*, Schr. Moness Burn.

52. *Marchantia polymorpha*, L. Moness Burn.

53. *Fegatella hæmisphærica*, Tayl. Moness Burn.

54. *Fegatella conica*, Tayl. Moness Burn.

55. *Riccia glauca*, L. Near the bridge which crosses the Lyon at Fortingal.

V. List of *Hepaticæ* added to the Flora of Edinburgh.

By JOHN LOWE, M.D.

Jungermannia (Scapania, Lindenb.) nemorosa, L.—var. *recurvifolia*, Roslin.

J. barbata, Schrad. Swanston.

J. riparia, Tayl. Bonally Burn.

J. Funckii, Nees (*Sarcoscyphus*, Corda). Swanston.

J. Wilsoniana, Nees. Banks of the Almond below Cramond Bridge,—growing in dense tufts several feet in diameter.

8th January 1857.—Professor BALFOUR, V.P., in the Chair.

Professor Balfour stated that the following donations had recently been made to the Museum at the Royal Botanic Garden :—

From R. Etheridge, Esq., Bristol—Specimens of White Coal, from the South-East Coast of New Holland.

Mrs Millar—"Sweet Nuts," from Gold Coast, Africa.

Mr Scott—Specimens of Rice and Sprigs of Olive (*Olea europæa*) bearing fruit, produced at Leigh Park.

M. Courtois Gerard, Paris—Roots of *Dioscorea Batatas* (Yams).

Mr J. W. Brown—Specimen of *Callithamnion Rothii*, from M'Duff's Cave, Fife.

Edward Ravenscroft, Esq.—Nuptial Jacket, used in China.

A Visitor to the Garden—Specimens of Silicified Wood from Jersey.

Professor Christison—Cluster of *Pinus Pinaster*, and fruit of *Hylomeum pyriforme* (Wood Pear of New Holland); also section of the fruit of *Feronia Elephantum*.

Messrs Duncan, Flockhart, and Company—*Pyrethrum roseum*, a kind of Tea Powder.

Mr Stephens—Cotton from *Bombax Ceiba*, grown in the Governor's garden, Ceylon.

Professor Fleming—Cluster of Cones of *Pinus Pinaster*, from Moffat,—the trees were planted by the late Dr Walker.

Alexander Thomson, Esq.—Sections of the Wood of Scotch Fir, attacked by *Uroceras gigas*; also, specimen of the Insect.

The following papers were read :—

I. *On the Production of Ergot on Rye*. By KENNETH CORBET, Beaulieu. Communicated by Dr DOUGLAS MACLAGAN.

The author noticed the occurrence of ergot on rye in the neighbourhood of Beaulieu, and stated that he found that this native ergot was more certain in its medical action than that imported from the Continent. He expressed his opinion that the production of ergot was connected with an abortive condition of the pollen, whose application to the stigma did not result in the development of an embryo. He found that, by cutting off the stamens in the early stage, the ovary became liable to an attack of ergot. Specimens of ergot on rye and barley were exhibited.

II. *On a Monstrosity in the Fruit of Silene inflata; with some remarks on Placentation*. By A. DICKSON.

The plant from which these specimens were gathered was obtained in Peeblesshire last October, when the capsules were fully matured. The peculiarity consists in the