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IV. Notice of Hepaticæ found near Aberfeldy

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Firth of Clyde, as is also the case with most, probably with all, the forms which accompany it in the *Æginè* marl. This, which is a very frequent case, led the author to express the opinion, that in all probability there are no extinct species of Diatoms. This differs *in toto* from what is seen in the other departments of Natural History, but then it must be remembered that the greater number of existing species of Diatoms are found in every country and in every sea, in all latitudes and in every climate, so that it is certain that this class of organisms—which is very low in the scale, and of extreme simplicity of structure, the only established parts being a siliceous shell, usually of four parts, a lining membrane and an inclosed watery fluid—is not in the least affected by any climatic conditions now occurring on the earth. They may, therefore, have been as little affected, at whatever period they began to appear (and it is doubtful whether any remains of them occur in strata prior to the chalk formation), by geological changes, as they now are by climate, when we see numbers of absolutely identical forms in the arctic, temperate, and torrid zones, and every known country. Some years ago, many species were regarded as exclusively fossil, and of course as extinct, but these are daily detected as existing, and if several of the cretaceous species still exist, all of them may do so.

IV. *Notice of Hepaticæ found near Aberfeldy.*

By JOHN LOWE, M.D.

After some preliminary remarks on the geographical distribution of this family of cryptogamic plants, the author enumerated the following species :—

1. *Jungermannia*, L. (*Gymnomitrium*, Nees) *concinata*, Lightf. Plentiful on the moors near Aberfeldy, and in Glen Lyon.
2. *J.* (*Sarcoscyphus*, Corda) *Funckii*, Nees. Sparingly on rocks south of Aberfeldy.
3. *J.* (*Sarcoscyphus*) *Ehrharti*, Corda, (*J. emarginata*, Ehrh.) Glen Lyon, and Moness Falls.
4. *J.* (*Alicularia*, Corda) *scalaris*, Schr. Moness Woods. Common.
5. *J.* (*Plagiochila*, N. & M.) *spinulosa*, Dicks. Lower Moness Fall, and Black Wood, Glen Lyon.

6. *J. (Plagiochila) asplenoides*, L. Moness Woods. Common.—
Var. γ . *minor*, Lindenberg. Moness Woods. Rare.
7. *J. (Scapania)*, Lind. *undulata*, L. Moness Woods.
8. *J. (Scapania) nemorosa*, L. Moness Woods. Common.
9. *J. (Scapania) uliginosa*. In springs on hills near Aberfeldy.
10. *J. (Scapania) umbrosa*, Schr. Craig Mohr, Glen Lyon.
Rare.
11. *J. albicans*, L. Common everywhere.
12. *J. crenulata*, Sm.—var. β . *gracillima*. Moness Woods. Not
common.
13. *J. curvifolia*, Dicks. Chesthill, Glen Lyon. Rare.
14. *J. cordifolia*, Hook. In mountain springs. Frequent.
15. *J. reclusa*, Tayl. Craig Mohr, Glen Lyon. In fruit. Rare.
16. *J. scutata*, Wils. Craig Mohr, Glen Lyon. Rare.
17. *J. riparia*, Tayl. Moness Burn.
18. *J. Bantriensis*, Hook. Moness Woods. Not common.—
var. γ . *minor*. Moness Woods. Frequent.
19. *J. inflata*, Huds. Hills near Aberfeldy.
20. *J. Orcadensis*, Hook. Moness Woods. Sparingly.
21. *J. Lyoni*, Tayl. Abundant in fruit. Near Coshieville,
and in Moness Burn.
22. *J. Taylori*, Hook. Near Loch Ghlassie. Growing on
Sphagna, and identical with *J. anomala*, Hook.
23. *J. barbata*, Schr. Moness Woods. Common.
24. *J. excisa*, Dicks. Glen Lyon.
25. *J. incisa*, Schr. West Fortingal.
26. *J. minuta*, Crantz. Hills south-east from Aberfeldy.
Not plentiful.
27. *J. divaricata*, Sm. Hills south-east from Aberfeldy, and
in Moness Woods.
28. *J. bicuspidata*, L. Hills south-east from Aberfeldy, and
in Moness Woods.
29. *J. connivens*, Dicks. Hills south-east from Aberfeldy, and
in Moness Woods.
30. *J. setacea*, Wils. Moorlands near Aberfeldy. Not common.
31. *J. trichophylla*, L. Moness Woods. Frequent.
32. *J. julacea*, Lightf. In fruit, at the foot of the Breadal-
bane range (alt. not more than 200 feet), Glen Lyon.
33. *J. (Saccogyna, Dumort) polyanthos*, L. Hills near Aber-
feldy. Common.
34. *J. (Calypogeia, Raddi) Trichomanis*, Corda. Moness
Woods. Plentiful.
35. *J. (Lepidozia, Nees) reptans*, L. Moness Woods.
36. *J. (Mastigobryum, Nees) trilobatum*, L. Black Wood,
Glen Lyon.
37. *J. (Trichocolea, Dum.) tomentella*, Ehrh. Moness Burn.
38. *J. (Ptiledium, Nees) ciliare*, L. Craig Mohr, Glen Lyon.

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 . *æruginea*. 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.