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On the Swimming-Bladder and Sexual Organs of the Murænid Fishes. By PROF. KNER.

Professor Kner communicates the results of his investigation of the swimming-bladders and sexual organs of thirty-six species of eel-like fishes. The species examined belong to nineteen of Bleeker's genera, distributed through six families.

The swimming-bladder occurs, more or less developed, in all the examined species and genera of three families—namely the *Anguilloidei*, *Congroidei*, and *Ophisuridi*; whilst it is wanting in the other three families, viz. *Gymnothoracoidei*, *Ptyobranchoidei*, and *Symbranchii*.

The sexual organs are sometimes symmetrical, and sometimes the reverse; in the former case they sometimes show the same structure, resembling that of our common eel, in all the specimens examined, and therefore, as in that species, leave the determination of the sex uncertain, but sometimes exhibit differences of structure in different individuals; so that many species decidedly have the sexes separate. The latter result was also obtained by the examination of several species with unsymmetrical sexual organs, whilst others left doubts upon this point. In a species of the family *Symbranchii* (*Ophisternon bengalense*=*Symbranchus bengalensis*, Bleek.), however, there was on one side a closed ovary filled with ova 1 line in diameter, and on the other side a lobate glandular organ, longer than the ovary, and exactly resembling the testes of *Petromyzon* in appearance. As, however, no spermatozoids could be detected, even under the microscope, the occurrence of hermaphroditism in this case is not strictly proved, although it certainly seems very probable.—*Bericht der Akad. der Wiss. in Wien*, December 14, 1865, p. 207.

Annelida and Turbellaria of Guernsey. By E. RAY LANKESTER.

The following is a list of the species of Annelida and Turbellaria obtained by the Dredging-Committee of the British Association last summer, off Guernsey and the neighbouring islands. Some of the species obtained have yet to be identified.

TURBELLARIA.

1. *Leptoplana subauriculata*, Johnston. Firman Bay.
2. — *flexilis*, Johnston. Firman Bay.
3. *Eurylepta cornuta*, Müller. Herm.
4. *Convoluta paradoxa*, Ærsted. Passim.
5. *Astemma rufifrons*, Ærsted. Guernsey.
6. *A. filiformis*, Johnston. Guernsey.
7. *Cephalothrix lineatus*, Ærsted. Guernsey.
8. *Tetrastemma varicolor*, Dalyell. Guernsey.
9. — *variegatum*, Dalyell. Guernsey.
10. *Borlasia olivacea*, Johnston. Guernsey.
11. — *octoculata*, Johnston. Guernsey.
12. *Ommatoplea rosea*, Müller. Guernsey.
13. — *alba*, Thompson. Guernsey.
14. — *melanocephala*, Johnston. Guernsey.
15. — *pulchra*, Johnston. Guernsey.

16. *Lineus longissimus*, *Simmons*. Herm.
17. — *gracilis*, *Goodsir*. Belgrave Bay.
18. — *lineatus*, *Johnston*. Belgrave Bay.
19. *Meckelia annulata*, *Montagu*. Passim.
20. — *tænia*, *Dalyell*. Firman Bay.
21. *Serpentaria fusca*, *Dalyell*. Herm.

ANNELIDA.

Chætopteridæ.

22. *Chætopterus pergamentaceus*, *Cuvier*. Herm.

Aphroditaceæ.

23. *Aphrodite aculeata*, *Linnæus*. Guernsey, *d.*
24. *Hermione hystrix*, *Savigny*. Guernsey, *d.*
25. *Lepidonotus squamatus*, *Linnæus*. Passim.
26. *Harmothoë Sarmiensis*, *Lankester*. Passim.
27. — *Malmgreni*, *Lankester*. Herm.
28. *Antinoë nobilis*, *Lankester*. Herm.
29. *Halosydna Jeffreysii*, *Lankester*. Herm.
30. *Polynoë scolopendrina*, *Savigny*. Herm.
31. *Sigalion Matildæ*, *Audouin & Edw.* Herm.

Amphinomaceæ.

32. *Euphrosyne foliosa*, *Aud. & Edw.* Herm.

Euniceæ.

33. *Eunice Norvegica*, *Linnæus*. Belgrave Bay.
34. — *Harassii*, *Aud. & Edw.* Guernsey, *d.*
35. — (sp. inc.). Herm.
36. — *sanguinea*, *Montagu*. Belgrave Bay.
- *37. — *Bellii*, *Aud. & Edw.* Guernsey, *d.*
38. *Lycidice Ninetta*, *Aud. & Edw.* Guernsey, *d.*
39. *Lumbrinereis tricolor*, *Leach*. Passim.
- *40. — *Latreillii*, *Aud. & Edw.* Guernsey, *d.*

Nereidæ.

41. *Nereis brevimana*, *Johnston*. Herm.
42. — *pelagica*, *Linnæus*. Passim.
43. — *cærulea*, *Linnæus*. Belgrave Bay.

Nephtyaceæ.

44. *Nephtys cæca*, *Fabric*. Passim.
45. — *longisetosa*, *Ørsted*. Guernsey, *d.*

Phyllodocidæ.

46. *Phyllodoce lamelligera*, *Turton*. Herm.
47. — *bilineata*, *Johnston*. Guernsey, *d.*
48. *Eulallia viridis*, *Linnæus*. Belgrave Bay.
49. — *ellipsis*, *Dalyell*. Herm.
- *50. — *Parretti*, *Blainville*. Herm.

Glyceraceæ.

51. *Glycera dubia*, *Blainville*. Herm.
52. — *capitata*, *Ørsted*. Herm.

Ariciadæ.

53. *Nerine vulgaris*, *Johnston*. Belgrave Bay.
 54. *Cirratulus borealis*, *Lamarck*. Belgrave Bay.
 55. — tentaculatus, *Montagu*. Belgrave Bay.
 56. *Leucodore ciliatus*, *Johnston*. Belgrave Bay.
 *57. *Aricia Cuvieri*, *Blainville*. Belgrave Bay.
 58. *Ammotrypane limacina*, *Rathke*. Guernsey, *d.*
 59. *Travisia Forbesii*, *Johnston*. Guernsey, *d.*

Siphonostomaceæ.

60. *Siphonostoma uncinata*, *Aud. & Edw.* Herm.
 61. — (sp. incert.). Herm.

Telethusidæ.

62. *Arenicola piscatorum*, *Lamarck*. Passim.
 63. — ecaudata, *Johnston*. Herm.

Maldaniadæ.

64. *Clymene lumbricalis*, *Aud. & Edw.* Belgrave Bay.
 *65. — amphistoma, *Savigny*. Perrelle Bay.

Terebellidæ.

66. *Terebella conchilega*, *Pallas*. Herm.
 67. — cirrata, *Montagu*. Bordeaux Harbour.
 68. — nebulosa, *Montagu*. Bordeaux and Herm.

Sabellariadæ.

69. *Sabellaria anglica*, *Ellis*. Guernsey, *d.*

Serpulidæ.

70. *Sabella penicillus*, *Linnæus*. Guernsey.
 71. — vesiculosa, *Montagu*. Perrelle Bay.
 72. *Protula protensa*, *Grube*. Perrelle Bay.
 73. *Serpula vermicularis*, *Ellis*. Passim.
 74. — (sp. incert.) Herm, *d.*

There are several tubicolar forms which I have not yet satisfactorily identified. Those species in the list to which an asterisk is prefixed are new to Britain, though previously described as occurring in French localities. The *Phyllodoce Parretti* of Blainville has hitherto been obtained only from the Gulf of Genoa, and is therefore peculiarly interesting. The letter *d* indicates that the specimens were obtained by the dredge.

On the "Capture of a Ribbonfish."

To the Editors of the Annals and Magazine of Natural History.

GENTLEMEN,—I trust you will allow me to correct the short notice of the "Capture of a Ribbonfish," which was given in the April Number of the 'Ann. & Mag. Nat. Hist.' p. 312. It was not taken at West Hartlepool, which is not on the coast of Northumberland, although it is on that of the ancient Northumbria. It was observed about March 1st by a pilot near to Seaton Snook, in the

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388 Miscellaneous.

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14. *melanocephala*, Johnston. Guei-nsey.

15. *pulchra*, Johnston. Guernsey.

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Miscellaneous.

16. *Linens longissimus*, Simmons. Herm.

17. *gracilis*, Goodsir. Belgrave Bay.

18. *lineatus*, Johnston. Belgrave Bay.

19. *Meckelia annulata*, Montagu. Passim.

20. *taenia*, Dalyell. Firman Bay.

21. *Serientaria fusca*, Dalyell. Herm.

Annelida.

Ch(Btopterid(e.

22. *Chsetopterus pergamentaceus*, Cuvier. Herm.

AphroditacecB.

23. *Aphrodite aculeata*, Linnceus. Guernsey, d.

24. *Hermione hystrix*, Savigny. Guernsey, d.

25. *Lepidonotus squamatus*, Linnceus. Passim.

26. *Ilarmothoe Sarmiensis*, Lankester. Passim.

27. *Malmgreni*, Lankester, Herm.

28. *Antinoe nobilis*, Lankester. Herm.

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Euniceee.

33. Eunice Norvegica, Linnceus. Belgrave Bay.

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35. (sp. inc.). Herm.

36. sanguinea, Montagu. Belgrave Bay.

*37. Bellii, Aud. S)- Edw. Guernsey, d.

38. Lycidice Ninetta, Aud. ^ Edw. Guernsey, d.

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*40. Latreillii, Aud. Sf Edw. Guernsey, d.

Nereides.

41. Nereis brevimana, Johnston. Herm,

42. pelagica, Linnceus. Passim.

43. *cserulea*, Linnaeus. Belgrave Bay.

Nephtyaceae.

44. *Nephtys cseca*, Fabric. Passim.

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Phyllodoceidae.

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*57. Aricia Cuvieri, BlainviUe. Belgrave Bay.

58. Amraotrypane limacina, Rathke. Guernsey, d.

59. Traviaia Forbesii, Johnston. Guernsey, d,

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