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Embryogeny of the Ornithomyiæ

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it, the fish descends in the water; it rises again by relaxing the muscles which had served to compress the bladder. Moreover, the fish may remain at the bottom of the water, by the very fact of the pressure of the column of water on the air contained in the bladder.

By compressing more or less the posterior portion or the anterior portion of the bladder, the animal is able to render the anterior half or the posterior half of its body lighter at will; it can also take an oblique position, which allows a movement of rising or of descending in the water. The arrangement of the natatory bladder in some fishes might favour this action. The Cyprinoids and the Characi have two bladders, one before the other, and communicating together by a narrow tube. The anterior bladder is very elastic, whereas the posterior one is very slightly so; and in proportion as the fish rises in the water, the anterior bladder, which is the most elastic, must considerably increase in volume, and thus keep the head of the animal up, whilst the contrary must be the case when the fish descends.—*Müller's Archiv*, 1845, p. 456.

CICONIA ALBA.

A fine specimen of the Stork (*Ciconia alba*, Ray) was shot a few weeks since near Fermoy in the county of Cork. It appears that three individuals were seen, but this only was procured. It is now in the possession of the Rev. Mr. Bradshaw of this city. I am not aware of any authentic record of the species having been met with in Ireland before.

J. R. HARVEY, M.D.

Cork, June 17, 1846.

Embryogeny of the Ornithomyiæ. By M. BLANCHARD.

The *Ornithomyiæ*, or *Pupipares* of Latreille, are parasitic on mammifera and birds. They have for a long time attracted the attention of entomologists, by an exceptional mode of reproduction which distinguishes them from all other insects. They do not deposit eggs, nor even larvæ, like some other Diptera, but nymphs, the external envelope of which hardens in contact with the air, and from which issues a few days afterwards the perfect insect.

Anatomists are not agreed as to whether the embryos pass, in the maternal ovary, through the ordinary phases of the metamorphoses of insects. Latreille supposed that the nymphs are at first under the form of eggs, and pass their life as larvæ within the body of the mother. Leon Dufour, from examinations of the *Hippoboscus* of the horse, and the *Melophagus* of sheep, thinks, on the contrary, that the embryos of the *Ornithomyiæ* are never comparable to eggs or to larvæ.

M. Blanchard has examined the *Leptotena* of the stag, and he has found, in the ovary of the females, embryos which completely resemble the larvæ of the Diptera, by their soft teguments, their corneous head, their two long tracheæ, and their nervous system collected in the anterior part of the body. The only important difference

which he has observed is the imperfection of the alimentary canal, which in these young larvæ is not yet formed and is replaced by a mass of globules. These larvæ taking no nourishment, the intestinal canal appears to be developed more slowly; the individuals in the author's possession died too suddenly to allow him to observe this formation.—*Société Philom. de Paris*, Jan. 17th, 1846.

METEOROLOGICAL OBSERVATIONS FOR MAY 1846.

Chiswick.—May 1. Dry haze: overcast. 2. Overcast. 3. Dry haze. 4. Cloudy and fine. 5. Very fine: showers. 6. Showery: cloudy and fine. 7. Cloudy and fine. 8. Overcast: exceedingly fine: clear at night. 9. Very fine. 10. Slight rain: cloudy: clear. 11, 12. Very fine. 13. Light clouds: overcast: rain at night. 14. Clear: cold and dry. 15. Cloudless: light clouds and fine: clear and cold at night. 16. Uniformly overcast: dry haze: densely overcast at night. 17. Overcast: rain: clear. 18. Rain: cloudy: boisterous. 19. Very fine: thunder-showers: densely overcast. 20. Rain: heavy showers. 21—23. Very fine. 24. Slight fog: overcast and fine. 25, 26. Very fine. 27. Cloudless: very fine: overcast. 28, 29. Very fine. 30. Hot and dry. 31. Cloudless: hot and sultry: clear.

Mean temperature of the month	56°·16
Mean temperature of May 1845	50 °04
Mean temperature of May for the last twenty years ...	54 ·77
Average amount of rain in May	1·84 inch.

Boston.—May 1. Fine. 2—4. Cloudy. 5, 6. Fine: rain p.m. 7. Cloudy. 8, 9. Fine. 10. Cloudy: rain early a.m. 11, 12. Fine. 13. Cloudy. 14—16. Fine. 17. Cloudy: rain early a.m. 18. Cloudy: rain a.m.: thunder p.m. 19. Fine. 20. Fine: hail and rain a.m. and p.m., with thunder and lightning. 21. Cloudy. 22. Fine: rain p.m. 23, 24. Fine. 25, 26. Cloudy. 27—29. Fine. 30. Fine: 3 o'clock p.m. 75°. 31. Fine.—N.B. The warmest May since 1833: it was 62°·8.

Sandwich Manse, Orkney.—May 1. Drizzle: damp. 2. Bright: clear. 3. Clear: aurora. 4. Bright: rain. 5, 6. Rain: cloudy. 7. Fine: rain. 8. Cloudy. 9. Clear: cloudy. 10. Clear: thunder and hail. 11. Bright: drops. 12. Bright: cloudy. 13, 14. Bright: fog. 15. Bright: cloudy. 16. Bright: clear. 17. Rain. 18. Fog: cloudy. 19—21. Damp: cloudy. 22. Rain: damp. 23. Showers: bright: cloudy. 24. Showers: clear. 25. Rain: cloudy. 26. Showers. 27, 28. Showers: cloudy. 29. Cloudy. 30. Rain: cloudy. 31. Cloudy: fine.

Applegarth Manse, Dumfries-shire.—May 1. Dropping day. 2. Fair and fine. 3. Fair and very fine. 4. Rain all day. 5. Heavy showers. 6. Showers. 7, 8. Fair and fine. 9. Fair and fine: a few drops p.m. 10. Heavy rain during the night. 11. Fair and fine. 12. Slight shower: growing weather. 13—16. Fair and fine. 17. Showery morning: cleared. 18. Showery all day. 19. Rain p.m. 20. Rain during the night: cleared. 21. Showers: thunder. 22. Drizzly all day. 23—25. Very fine day. 26. Very fine day: droughty. 27, 28. Very droughty. 29—31. Very warm.

Mean temperature of the month	52°·6
Mean temperature of May 1845	50 °0
Mean temperature of May for 23 years	51 °0
Mean rain in May	1·96 inches.
Mean rain in May for 18 years	1·73 „