

No. 10. — *Bibliography to accompany "Selections from Embryological Monographs, compiled by ALEXANDER AGASSIZ, WALTER FAXON, and E. L. MARK."*

III.*

ACALEPHS.

By J. WALTER FEWKES.

THE most significant of the early contributions to the embryology of the Acraspeda was the recognition by Sars (M.), in 1853, that the sessile genus *Scyphistoma* Sars, and the free medusa, *Ephyra* Eschscholtz, are larval stages of *Aurelia aurita*. The importance of this discovery was much enlarged by Steenstrup (Joh. J.), who pointed out in 1842 that it was an example of "alternation of generations," similar to that described by Chamisso in *Salpa*. The development of genera of Acraspeda without a fixed larval stage was first described by Krohn (A.) in 1855. A similar direct development has been discovered by Haeckel (E.) in *Aurelia*. Important observations on the development of different genera of Acraspeda have been published by Agassiz (L.), Clark (H. J.), and Claus (C.).

The segmentation and peculiar delamination of the ovum of the Trachymedusæ have been studied by Fol (H.) and Haeckel (E.). The larval forms of the same, more especially of the commensal genus *Cunina*, have been investigated by Gegenbaur (C.), Haeckel (E.), McCrady (J.), Müller (F.), Schultze (F. E.), and Ulanin (B.).

Dalyell recognized the "planula" among the Hydroida. The production of the free medusa known as the gonophore from the fixed hydroid by an asexual method of gemmation was traced by Dujardin (F.) in 1848. The knowledge of a wide distribution of this phenomenon among other genera, and its identity with the method of growth called "alternation of generations," we owe to the researches of Agassiz (A.), Agassiz (L.), Allman (G. R.), Claus (C.), Gegenbaur (C.), McCrady (J.), and others. Kleinenberg's account of the embryology of *Hydra* is the best existing of this remarkable genus.

The Discoidea (*Vollellidae* and *Porpitidae*) have engaged the attention of many embryologists, among whom are Agassiz (A.), Huxley (T. H.), Kolliker (A.), Pagenstecher (H. A.), Stuart (A.), and Vogt (C.). Gegenbaur (C.) first followed the segmentation of the egg and the early larval stages of *Diphyces*, and Leuckart (R.)

* I. Crustacea. By WALTER FAXON. *Bull. Mus. Comp. Zool.*, IX, 6, p. 197. March, 1882. II. Echinodermata. By ALEXANDER AGASSIZ. *Ibid.*, X, 2, p. 109. August, 1882.

This bibliography extends to the year 1883 inclusive. Simple descriptions of new hydroids, which add nothing to a knowledge of embryology, are omitted. An asterisk [*] before a title denotes that the work has not been seen by the compiler.

discovered the connection between monogastric (*Eudoxia*) and digastric (*Abyla*) Calycephores. The other most important contributions to the embryology of the Siphonophora are by Agassiz (A.), Chun (C.), Claus (C.), Haeckel (E.), and Metschnikoff (E.).

The embryology of the Ctenophora has been followed by Agassiz (A.), Chun (C.), Fol (H.), Kowalevsky (A.), and Metschnikoff (E.).

CAMBRIDGE, June 1, 1884.

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[Development of *Nanomia cara*.] *Proc. Boston Soc. Nat. Hist.*, IX. p. 181. 1862-63.

[Young of Medusa of *Halopsis ocellata*.] *Proc. Boston Soc. Nat. Hist.*, IX. pp. 219, 220. 1862-63.

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(Development *passim*.)

Embryology of the Ctenophoræ. *Mem. Amer. Acad. Arts & Sci.*, X., No. III. (Separate, in advance.) pp. 357-398, pls. 5. Cambridge, Mass. 1874. (*Idyia roseola*, *Pleurobrachia rhododactyla*, *Bolina alata*, *Mertensia ovum*.)

Haeckel's Theory (Allæogenesis) of the Genetic Connection between the Geryonidæ and Æginidæ. *Amer. Journ. Arts and Sci.*, May, 1876. *Ann. Mag. Nat. Hist.* [4], XVII. p. 481. 1876.

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(Younger stages of *Velella* and *Porpita*; *Chrysomitrea* of both; *Rataria* described by Pagenstecher corresponds with young stages of *Porpita*.)

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(pp. 21-90 larval stages, *passim*.)

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(*Aurelia flavidula*, *Cyanea arctica*, *Pelagia cyanella*, *Coryne mirabilis*, *Clava leptostyla*, *Eudendrium dispar*, *Parypha crocea*, *Tubularia*, *Thamnocnidia*, *Hydractinia*, *Laomedea*, *Millepora*, larval stages of other Acalephs, *passim*.)

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(Development *passim*.)

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