- Fig. 1. A male hydromedusarium attached to a senweed. Natural size.
- Fig. 2. A portion of fig. 1. a the pedicels of the hydræ; b the reproductive calycles; c c¹ the young hydra-buds; d the stolon. 15 diameters.
- Fig. 3. A sectional view of a hydra pedicel (c¹) and head. a outer, and b inner wall of the head; c the semi-partition; c¹ cavity of the calyele; c² pedicel; c² top of c¹; c¹ the stolon; g digestive cavity; t two opposite tentacles.
- Figs. 4, 5, 6, 7, 8, 9. Progressive stages in the development of the hydra. a the outer, and b the inner wall of the head; a outer, and b inner wall of the pedicel; ab the tentacular region; c the semi-partition; c cavity of the calyele; c chitinous sheath; d the opercle; c point where the walls adhere to the calyele; g digestive cavity.
- Fig. 10. A hydra just emerging from its embryonic state. d the opercle; t the tentacles.
- Fig. 11. The bad of a fertile male hydra. if outer, and y the inner wall; b chymiferous cavity; d the growing terminus; i a medusa-bad; k the calyele.
- Fig. 12. The same as fig. 11, but much further advanced. The letters the same: also a, the chymiferous cavity.
- Fig. 13. A male reproductive hydra. a the single chymiferous channel; c c³ c³ the multiple chymiferous channels; d the common terminal cavity; f radiating tubes of the medusa; i the spermatic mass.
- Fig. 13º. The hydromedusa of fig. 13, taken from its ealycle, and allowed to expand so as to show the point of connection (e³) of the medusa to one channel of the multiple axis.
- Fig. 14. A two thirds grown hydromedusa, removed from its calycle. a base of the channel of c; b junction of the medusa with a; c channel of the axis; d expanded terminus of c; f radiating canals; i spermatic mass.
- Fig. 15. A female hydromedusa. a the main channel;
 b neck of the medusa; c c¹ c¹ c¹ c¹ the multiple channels arising from a; d common cavity into which c-c¹ empty; c c¹ f f¹ radiating tubes of the medusa;
 b netinal side of the medusa; i i² the planulæ; k k¹
 the calycle.
- Fig. 16. A mature female hydromedusa. a b c c³ c³ d c c⁴ f i i³ k k⁴ as in fig. 15; c³ radiating tube; b a portion of the medusa protruded from the calycle; b⁴ neck of b; i² planule.
- Figs. 17 and 17a. A lateral and end view of a planuloid hydra from fig. 15.

- Fig. 18. A the outer cells of fig. 17; B the interior cells of the same.
- Fig. 19. A male hydromedusa, two thirds grown. a b c c¹ d c c¹ c² f f¹ k as in fig. 15; also i, the spermatic mass.
- Fig. 20. B. spermatic particles: Λ, α diagrammic figure of Λ: C, immature spermatic particle.

PLATE XXIX.

Figs. 1-5, CLYTIA POTERIUM Ag.; figs. 6-9 C. BICO-PRORA Ag.; Figs. 10 and 11, C. INTERMEDIA Ag.

[Drawn by H. J. Clark.]

- Fig. 1. A hydra which has developed from the head of another hydra. a the base of (a^t) the pedicel of the upper hydra; a² the semi-partition; b the terminal ring of the lower pedicel; b² terminal ring of the upper pedicel. 100 diameters.
- Fig. 2. A male hydromedusa. a main chymiferous channel; b base of the multiple channels (c⁴ c² c³); c⁴ c⁵ outer wall of the hydra; d common chymiferous cavity; c c⁴ c⁵ radiating tubes of the medusa; f branches of c; g g⁴ furrow in the spermatic mass. 150 diameters.
- Fig. 3. A mature male hydromedusa. Letters as in fig. 2; also i, the spermatic mass. 100 diameters.
- Fig. 4. Similar to fig. 3, and with the same letters
- Fig. 5. A mature male hydromedusa, discharging its spermatic particles, the multiple axis partially retracted. a main channel; b base of the multiple channels (c c⁴ c²); d end of the axis; b the medusa; i i³ the current of spermatic particles; k the calyele; k³ the mouth of k. 100 diameters.
- Fig. 6. A hydromedusarium of Clytia bicophora. A-G the hydra; a b c f the base of the branch of a hydra; d c the reproductive hydra; g the stolonic sheath; h the channel of the stolon. 40 diameters.
- Fig. 7. A hydra from fig. 6. c the semi-partition; c² the terminal ring of the pedicel; c⁴ the teeth; c³ the sinuses between c⁴. 100 diameters.
- Fig. 78. End view of fig. 7, with the same letters.
- Fig. 7b. A portion of the calvele of fig. 7, with the same letters. 100 diameters.
- Fig. 8. The ealycle of an immature hydra. b the terminal ring of the stem; c the semi-partition; d the filmy opercule. 200 diameters.
- Fig. 9. The margin of the calycle of a mature hydra just before it emerges. c³ c⁴ c⁶ the teeth; c⁵ the decurrent angles of the intervals (c⁵) of the teeth c⁶); d the opercule; d¹ line which divides the smooth from