

Fig. 9, from above and to the left, 26 diam. *N. guttata*; laid July 16, opened July 26, 1852.

Fig. 9a, from above, the same as fig. 9.

Fig. 10, from below, 20 diam.; fig. 10a, the same as fig. 10, from above; (in this figure, a^4 should be a^1 ; correct also the same mistake in the text, p. 541, line 16;) fig. 10b, the same as fig. 10a, seen more from the front; fig. 10c, the same as fig. 10, seen directly from the front. *N. guttata*; laid July 18, opened July 27, 1852.

Fig. 11. Posterior half, from above, 20 diam. *N. guttata*; laid July 11, opened July 22, 1852.

Fig. 12. Posterior half, from the left side, 26 diam. *N. guttata*; laid July 18, opened July 29, 1852.

Fig. 13. Posterior half, from below and to the left, 25 diam. *N. guttata*; laid July 18, opened July 28, 1852.

PLATE XIII.

[Fig. 4 from nature, by H. J. Clark; the others by A. Sonrel.]

Fig. 1. Interior view of the egg, the shell being taken off, and the shell membrane varnished; *o*, the allantoidian vessels; *h*, the upper surface of the yolk sac; *r*, the vena afferens, 2 diam. *Chelydra serpentina*; laid June 18, opened Sept. 6, 1855.

Fig. 2. Embryo and vascular area, from above; the arrows indicate the direction of the currents of blood; about 6 diam. *Ch. serpentina*; period of laying unknown, opened Aug. 3, 1852.

Wood-cut 1, p. 553, represents parts of the same figure; *f*, vertebra; r^1 , allantoidian artery, running along the side of the body; r^2 , abdominal or dorsal artery; *n*, allantois.

Fig. 3, from below, about the same diam. as fig. 2. *Ch. serpentina*; laid June 18, opened July 10, 1855; *q*, point from which the omphalo-meseraic arteries radiate.

Fig. 4, 5, 6, 7, 8, 9. Views in profile and from above of the egg, with the shell partially taken off, to exhibit the extent of the circulation of the blood, nat. size. *Ch. serpentina*; all laid June 12, and opened July 11, 1855.

Fig. 10, and 11. Laid June 18, and opened July 11, 1855. *Ch. serpentina*, nat. size.

Fig. 12. Laid June 18, and opened July 10, 1855. *Ch. serpentina*, nat. size. (See p. 599.)

PLATE XIV.

[Fig. 1, from nature, by H. J. Clark; the others by A. Sonrel.]

All the figures are of *Chelydra serpentina*.

Fig. 1. Embryo from the left side, about $3\frac{1}{2}$ diam.; laid June 23, opened July 31, 1855.

Fig. 2. From above, about 3 diam.; the allantois nearly covers the embryo. *r*, vena afferens; r^1 , vena terminalis; laid June 23, opened July 18, 1855.

Fig. 2a. From above, about 5 diam.; laid June 23, opened July 17, 1855.

Fig. 3. From below, about 5 diam.; laid June 18, opened July 25, 1855.

Fig. 4. From the right side, about 5 diam. *o*, allantoidian artery; *t*, allantoidian vein running along the side of the abdominal opening. Taken from the oviduct June 20, and opened July 18, 1855.

Fig. 5. From above, about $2\frac{1}{2}$ diam.; laid June 18, opened July 17, 1855.

Fig. 6. From above, about $1\frac{1}{2}$ diam.; laid June 18, opened July 10, 1855.

Fig. 7. From above, about $1\frac{1}{2}$ diam.; laid June 23, opened July 10, 1855.

Fig. 8. From above, about $1\frac{1}{2}$ diam.; taken from the oviduct, June 20, and opened July 10, 1855.

Fig. 9. From above, about $1\frac{1}{2}$ diam.; laid June 18, opened July 10, 1855.

Fig. 10. From above, about $1\frac{1}{2}$ diam.; taken from the oviduct, June 20, and opened July 10, 1855.

Fig. 11. From above, about 2 diam.; laid June 18, opened July 11, 1855.

Fig. 12. From above, about 2 diam.; period of laying unknown, opened June 25, 1854.

Fig. 13. From above, nat. size; laid June 12, opened September 1, 1855.

PLATE XV.

[Drawn from nature, by A. Sonrel.]

All the figures are of *Chelydra serpentina*.

Fig. 1. From the right; fig. 2, from the left side, the shell being taken off; fig. 3, the allantois and amnios cut away; nat. size; fig. 1 and 2, laid June 10, opened Sept. 20, 1855; fig. 3, laid June 10, opened Sept. 21, 1855.

Fig. 4, 5, 6. From above, nat. size; fig. 4, outer folds of the allantois cut away, leaving the inner folds with their bloodvessels running over the amnios; fig. 5, to the right the whole allantois is lifted off and cut away so as to expose the radiating vessels of the vascular area; laid June 18, opened Sept. 6, 1855; fig. 6, the allantois entire; taken from the oviduct June 20, opened Sept. 4, 1855; fig. 5a, a portion of the large vena afferens of fig. 5, and the two omphalo-meseraic arteries at the point where they begin to branch, about 5 diam.

Fig. 7. From the right side, the allantois and amnios cut away; laid June 21, opened Sept. 21, 1855.