

## PLATE VIII.

- Figs. 2, 3, 5, 6, 9, 11, 12, Hartnack *Ob.* 8, *Oc.* 2, *cam. luc.* Figs. 4, 8, *Ob.* 4. Fig. 10, *Ob.* 2.
- FIG. 1.—I., II., III., IV., 1st, 2nd, 3rd and 4th branchial veins; *c. ex.*, external carotid; *c. in.*, internal carotid; *ps.*, pseudobranchia; *n.*, branch of internal carotid to the nasal cavity; *br. c.*, cut edge of the floor of brain case removed to show (*ant.*, *med.*, *post.*) anterior, median and posterior arteries to brain; *sc.*, artery to pharynx, &c.; *ao. des.*, aorta descendens; *h. k.*, artery to head-kidney; *c. m.*, celiaco-mesenteric.
- FIG. 2.—Pseudobranchia—*a.*, part of wall of internal carotid; *b.*, openings into the surrounding tissue; *c.*, artery.
- FIG. 3.—From the same section—*a.*, arteries; *b.*, spaces from which they arise; *c.*, blood-cells in interfibrillar spaces.
- FIG. 4.—From a section of spleen of young fish—*c.*, capsule; *m. c.*, Malpighian corpuscle, with *m. a.* its artery; *pg.*, pigment granules; *p.*, pulp.
- FIG. 5.—Same as the last—*a.*, artery; *v.*, spaces between artery and tissue of Malpighian corpuscle, *m.*; *p.*, pulp; *v. s.*, venous sinuses of pulp; *g.*, pigment granules.
- FIG. 6.—Malp. corp. from spleen of old fish—*a.*, arteries; *i.*, interconnective tissue of M. corpuscles, with blood-cells in its interspaces.
- FIG. 7.—Cells of spleen from Müller's fluid prep.—*a.*, adenoid connective tissue cells; *b.*, pigment cells with granules; *c.*, blood-cells; *d.*, lymphoid cells of Malp. corpuscles.
- FIG. 8.—From section of thyroid gland—*tr.* is placed in lumen of truncus arteriosus, cut at the origin of the stem of the 3rd and 4th pairs of branchial arteries; *v.*, veins; *vc.*, vesicle with granular contents; *vc.*, vesicle filled with colloid matter; *p.*, pigment.
- FIG. 9.—From section of head-kidney to show the pulp tissue and the venous sinuses.
- FIG. 10.—Section of *s. r.*, suprarenal body imbedded in the substance of the kidney, *k.*
- FIG. 11.—Lobules of suprarenal body—*A.* to show the common form and arrangement of the nucleated granular cells; *B.* lobules with indistinct cellular outlines, but distinct nuclei, and deeply stained structures (figured black) usually pointed triangular, supposed to be ganglion cells.
- FIG. 12.—Cells of lobule, Müller's fluid prep.