$f^{\prime}$, and $f^{\prime}$, over its expansion; $g, a$ branch of the vestibulo cut across; $h, h^{\prime}$, the cartilaginous cranium; $i$, tympanic cavity; $k$, pia mator; $k$, bloodvessels from $k$, plunging into the mass of the brain $; l$, dura mater; $m$, vessels of the median siuus; $n$, fibrous membrane of the palate; $n^{\prime}$, lateral sinus of the fibro-muscular membrane of the mouth; 0 , windpipe; $p$, os hyoides; $q$, muscular bundles; $r$, addactor muscles of the neck; $r^{\prime}$, muscles of the lower jaw ; $p$, bloodvessels cut across ; $t$, dense white fibrous corium; $u$, opiderais very much wrinkled.
Fig. 8; compare wood-cut 8, p. 577. Transvorse section through the hemispheres, the optic lobo, and the lower jaw, just behind the oponing of the mindpipe; 5 diam. Cor responds to the line $\mathbf{C}$, in w-c. 3, p. 576 ; compare also fig. 4. Viow from beforo, looking back wards; $a$, lent homisphero, the rudimentary corpus striatum lies at the point where tho letter is placed; $a^{\prime \prime}$, crura cerebri; $u, u^{\prime}$, interior face of the homispheres; $l$ is partly cut away to expose the bloodvessel ( $c^{\prime}$ ) going to the choroid plexus, ( $d$, which enters by the foramen at this point; $c$, bloodvessel which enters at $c^{\prime}$; $d$, cloroid plexus; $e$, third ventricle in tho distance ; $f, f$, optic lobes; $g$, inferior consmissure of $f$ and $f ; h$, parietal bone of the skull; $h^{\prime}$, frontal bono; $i$, 巨phonoid bono; $j$, cavity of the mouth; $k$, fibro-muscular layor of the door of the mouth; $h^{\prime}$, roof of the mouth; $l$, windpipe; $m$, midale part of the hyoid bone; $n$, bloodressels; 0 , museular bundles; $p$, $p^{\prime}, p^{\prime \prime}$, three parts of tho lower jaw, $p^{\prime}$ still cartiluginous, the two othors quite gritts with liwe; $\eta$, filrous corium.
Fig. 9 ; compare wood-cut 0, p. 677 . The samo section as fig. 8, looking forward on the opposite side of the cut toward the offactory lobes; 5 dinm.; $l^{\prime \prime}$, open communication between the homispheres; $d^{\prime \prime}$, narrour passage in the olfactory lobe in the distance; $\mathrm{c}^{\prime}$, anterior commissure of the optic lobes. The other letters as in fig. 8.
Fig. 10; compare wood-cut 10, p. 577. Transrerse section through the auterior end of the alfactory lobe and a portion of the surrounding tissucs, seen from belind; 15 dinm. Corresponds to the lino B, in w-c. 3, p. 676 ; comparo also fig. 4: $a$, the right olfactory lobe, marked by concentric lajers of alternately white and gray substance, the white being muelh thicker than the gray; $b$, ventricle iu the contre of the lobe; $c$, the vascular pia mater; $d$, arachuoid membranc, or network of vessels conneeting tho pia ninter (c) to the dura mater ${ }^{\left(d^{\prime}\right)} ; \quad e$, interorbitul septum ; $f$, frontal bone $; y$, fibrous corium; $h$, lajer of pigment under $i$; $i$, the epideruis.
Fig. 11; comparo wool-eut 11, p. 557. Transverse section through the uasal cavity, seen from belind; 5 diam. Corresponds to the line A, in w-e. 3, p. 570 ; compare also
fig. 4: $a$, right Schneiderinn membrane; that part which is below the palate bone ( $f$ ) is not seen in the longitudinal section, (fig. 4,) which is made through tho middle lino of the head; $b$, septum narium; $u$, the irregular dothed line next to $a$ indicates a dense layer of black pigment; $c$, frontal bone; $d$, othmoid; $d^{\prime \prime}$, upper edge of the intermaxillary Lone, os incisivum; $e$, corium; $f$, vomer ; 9 , palate ; $h$, inner edge of the horny layer of the mandible, where it meots the mucous membrane (i) of the palate (g).

## plate xiv.

[Fig. 7, 7a, 0, 0a, 15, from nnture, by A. Sonrel; the othors by H. J. Clark.J

Fig. 8 and 14 are from Nanemys guttata; the others from Cbelyura serpentina.
Fig. 1, 1a, 2, 2a, 3, 3a, 4, 5, 7, 7a, 8, 9, 9a, 11, 12, 13, 13a, 14, 15, are all lettered in the same manner: $a$, amnios; $a^{\text {a }}$, caudal hood; $c$, edge of the channel of the spinal marrow ; $c^{2}$, edge of tho open part of the brain; $c^{2}$, brain closed over; $e^{3}$, constrictivn between the corpora quadrigemina and the optic lobes; $f$ i vertebre; $f^{\prime}$, vortebral layer; $f^{\prime}$, lower elge of $f ; f^{3}$, lower edge of $f^{\prime} ; f^{\prime}$. upper edge of $f ; h^{\prime}$, nortic bulb; $h$, auricle; $h^{\prime}$, ventricle; $i$, veua afferens; $i^{2}$, ablomiual veius; $i$, cophalic veins; $j$, ceplualic artery; $j$, dorsal artery; $k$, the whole eye, or the outer layer of the retina; $k^{\prime}$, the inuer infolded layer; $k^{3}$, passuge to tho brain; $k^{3}$, erystalline lens; $k^{4}$, point where the inner wall ( $k$ ) tolds upon the outer ( $k$ ); $l$, car; $m$, branchial fissures; $n$, intestino-sulsidiary lnjer; $n^{2}$, stomach; $n^{4}$, csoplangus; $n^{4}$, anus; $n^{0}$, allantois; 0 , edge of the abdominal aperture; $p$, musculocutancous layer; $r$, liver ; 1 , windpipo; $t$, lungs; $v$, uostrils; $c$, fore legs ; wi, hind legs $; x$, mouth; 1 , outer wall of the luogs; $1^{\prime}$, outor wall of tho cesophagus behinul the lungs; ${ }^{1 \prime}$, outer wall of the assophangus before the langs; $1^{\prime \prime \prime}$, outer wall of the windpipe; 2 , mucous mentbrane of the lungs ; $2^{2}$, mueous wembrane of tue usophagus behind the lungs; $2^{\prime \prime}$, mucous membraue of thr. cosophagus before the lungs; $2^{\prime \prime \prime}$, nuecous mumbraue of the windpipe; 3 , oprewing of the windpipe; 3 , quen conmunieation between the wimbipipe and the esopphagks: $G$, part of the trachea of the right lung; $\bar{i}$, a bromethole treuding trausversely to the broan fave of the lung.
Fig. 1. The lungs, and part of the asophareas, fiom tuldur, so diam., date not ascertained; lig. 1n, interior walls of lig. 1; 250 dinm.
Fig. 2. Lung; aud stomacth, frow below, nbout o diann.; laid

