

Labs 11/12

Terms	Species
Olfactory n. (CN I)	ID the olfactory bulb, but we won't identify a single "olfactory n."
Olfactory bulb	All
Cribriform plate	Canine skull
Optic n. (CN II)	All
Optic canal	Canine skull
Periorbita	All; fibrous tissue that surrounds the extraocular mm.
Oculomotor n. (CN III)	Carnivore
Orbital fissure	Canine skull; transmits CNs III, IV, ophthalmic br. of V, and VI
Ciliary ganglion	Carnivore
Dorsal rectus m.	All
Ventral rectus m.	All
Medial rectus m.	Know that it is innervated by CN III, but we will not identify it.
Ventral oblique m.	Know that it is innervated by CN III, but we will not identify it.
Trochlear n. (CN IV)	Know the muscle it innervates (dorsal oblique m.)

Trigeminal n. (CN V)	We will ID branches, not the trigeminal n. as a single nerve.
Ophthalmic n. (V <sub>1</sub> )	Know what region of the face it innervates, but do not identify
Maxillary n. (V <sub>2</sub> )	All
Round foramen	Canine skull
Alar canal	Canine skull
Infraorbital n.	All
Cornual nn.	Goat
Maxillary foramen	Identify on skull
Infraorbital canal	Identify on skull
Infraorbital foramen	Identify on skull
Mandibular n. (V <sub>3</sub> )	All
Auriculotemporal n.	All
Buccal n.	Carnivore
Lingual n.	Carnivore
Inferior alveolar n.	Carnivore
Mylohyoid n.	Carnivore
Mandibular foramen	Identify on skull
Mandibular canal	Identify on skull

Mental foramina	Identify on skull
Abducent n. (CN VI)	Carnivore
Lateral rectus m.	All
Retractor bulbi m.	Carnivore
Facial n. (CN VII)	Understand, but we don't see the facial n. by itself (just its branches, see below)
Dorsal buccal br.	All
Ventral buccal br.	All
Auriculopalpebral n.	All
Pterygopalatine ganglion	All
Platysma m.	Carnivore; pig
Orbicularis oris m.	All
Buccinator m.	Carnivore
Orbicularis oculi m.	All
Levator nasolabialis m.	All
Levator labii superioris m.	Ungulates
Vestibulocochlear n. (CN VIII)	Understand, don't identify
Glossopharyngeal n. (CN IX)	All
Tympano-occipital fissure	Canine skull; transmits CNs IX, X, and XI

Vagus n. (CN X)	All
Distal ganglion of vagus	All
Cranial laryngeal n.	All; innervates cricothyroideus m.
Caudal laryngeal n.	Know what muscle it innervates (CAD m.), but do not identify
Vagosympathetic trunk	All
Accessory n. (CN XI)	All
Hypoglossal n. (CN XII)	All; innervates tongue, follows lingual artery rostrally
Sympathetic trunk	Understand as component of vagosympathetic trunk
Cranial cervical ganglion	All; last opportunity for sympathetic fibers to synapse with post-ganglionic partner cranially

Lab 13

<b>Terms</b>	<b>Notes</b>
Meninges	
Dura mater	
Arachnoid membrane	
Pia mater	
Falx cerebri	
Dorsal sagittal sinus	
Subarachnoid space	
Cerebellomedullary cistern	
Gyrus	
Sulcus	
Cerebral cortex	
Ventricular system	Ventricular system best identified in midsagittal plane
Lateral ventricles	
Third ventricle	
Mesencephalic aqueduct	
Fourth ventricle	

Cerebrum	
Longitudinal fissure	
Cerebral hemispheres	
Transverse fissure	
Frontal lobe	
Cruciate sulcus	
Parietal lobe	
Temporal lobe	
Occipital lobe	
Olfactory bulb	
Piriform lobe	
Cerebellum	
Vermis	
Folia	
Cerebellar peduncles	
Arbor vitae	Best seen in midsagittal plane
Tentorium cerebelli	
Brain stem	
Mammillary bodies	

Optic chiasm	
Optic tract	
Lateral geniculate body	
Medial geniculate body	
Rostral colliculus	
Caudal colliculus	
Crus cerebri	
Pons (ventral metencephalon)	
Transverse pontine fibers	
Pyramids	
Decussation of pyramids	Understand, don't identify

Lab 14

Terms	Notes
<b>Telencephalon</b>	
Longitudinal fissure	
Olfactory bulb	
Hippocampus	
Corpus callosum	
Internal capsule	
Cerebral cortex	
Corona radiata	
Caudate nucleus	
Lateral ventricles	
<b>Diencephalon</b>	
Thalamus	
Interthalamic adhesion	
Lateral geniculate body	
Medial geniculate body	
Mammillary bodies	
Optic chiasm	



Optic tract	
Hypothalamus	
Third ventricle	
<b>Mesencephalon</b>	
Tectum	
Rostral colliculus	
Caudal colliculus	
Tegmentum	
Red nucleus	Know region in which it's found, don't identify directly
Oculomotor nucleus	Know region in which it's found, don't identify directly
Parasympathetic nucleus of CN III	Know region in which it's found, don't identify directly
Trochlear nucleus	Know region in which it's found, don't identify directly
Reticular formation	Know region in which it's found, don't identify directly
Ascending reticular activating system (ARAS)	Know region in which it's found, don't identify directly
Fourth ventricle	
Mesencephalic aqueduct	

<b>Metencephalon</b>	
Ventral metencephalon (i.e., pons)	
Transverse pontine fibers	
Reticular formation	Understand region in which it's found, don't identify directly
Dorsal metencephalon	
Vermis	
Folia	
Arbor vitae	
Cerebellar peduncles	
<b>Myelencephalon</b>	
Pyramids	
Vestibular nuclei	Know region in which it's found, don't identify directly
Facial nucleus	Know region in which it's found, don't identify directly
Nucleus of CN IX and X (nucleus ambiguus)	Know region in which it's found, don't identify directly
Hypoglossal nucleus	Know region, don't identify directly
Reticular formation	Know region, don't identify directly
Parasympathetic nuclei of CNs VII, IX, and X	Know region, don't identify directly

Lab 16

Terms	Notes
<b>External ear</b>	
Pinna (auricle)	
Auricular cartilage	
Marginal cutaneous pouch	The “tick pouch”
External ear canal	
Horizontal part	
Vertical part	
Annular cartilage	
Tympanic membrane	
<b>Eye adnexa</b>	<i>Adnexa</i> [L] = “joined to”
Superior palpebrae	
Levator palpebra superioris m.	Innervated by CN III
Inferior palpebrae	
Palpebral fissure	
Medial/lateral palpebral commissure (canthus)	
Palpebral conjunctiva	

Bulbar conjunctiva	
Conjunctival fornix	
Conjunctival sac	
Third eyelid (plica semilunaris)	
Superficial gland of the third eyelid	Understand, don't identify
Periorbita	
Extraocular mm.	
Medial rectus m.	Innervated by CN III
Lateral rectus m.	Innervated by CN VI
Dorsal rectus m.	Innervated by CN III
Ventral rectus m.	Innervated by CN III
Dorsal oblique m.	Innervated by CN IV
Ventral oblique m.	Innervated by CN III
Retractor bulbi m.	Innervated by CN VI
Lacrimal gland	
Tear drainage pathway	Understand, don't identify
Dorsal/ventral lacrimal puncta → Dorsal/ventral lacrimal ducts → Lacrimal sac → Nasolacrimal duct → Rostral opening of the nasolacrimal duct	

<b>Bulbus oculi</b>	
Fibrous tunic	
Cornea	
Sclera	
Limbus	
Vascular tunic	
Iris	
Constrictor pupillae m.	Innervated by parasympathetic fibers of CN III
Dilator pupillae m.	Innervated by sympathetic fibers
Iridocorneal angle	
Lens	
Zonular fibers	Only present if lens remains attached
Ciliary body	
Ciliary processes	Understand, don't identify
Choroid	
Tapetum lucidum	
Nervous tunic	
Retina	
Optic disc	

Fundus	Know what is seen during a typical fundic exam
Anterior chamber	
Aqueous humor	
Posterior chamber	
Vitreous chamber	
Vitreous humor	