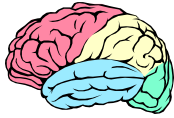


Bio& 241 A&P 1

Unit 4 Lab 2

Brain

G Blevins/G Brady
Winter 2006



Human Brain Structures:

Primary Embryonic structures:

Prosencephalon	Mesencephalon	Rhombencephalon
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Secondary Embryonic structures:

Telencephalon	Diencephalon	Mesencephalon
Metencephalon	Myelencephalon	

Cerebral Meninges:

Dura mater (*)	Arachnoid mater (*)	Subarachnoid space (*)
Pia mater (*)		

Cerebral Hemisphere Lobes:

Frontal (*)	Parietal (*)	Occipital (*)
Temporal (*)	Insula	

Cerebral Hemisphere Grooves and Ridges:

Longitudinal Fissure (*)	Precentral Gyrus	Central sulcus
Postcentral Gyrus	Parieto-occipital groove	Lateral sulcus
Gyrus (*)	Sulcus (*)	

Cerebral Hemisphere Surface Anatomy:

Cerebellum (*)	Corpora Quadrigemina (*)	Superior Colliculus (*)
Inferior Colliculus (*)	Medulla Oblongata(*)	Pons (*)
Cerebral Peduncles (*)	Olfactory Bulb (*)	Olfactory Tract (*)
Pituitary (Hypophysis) (*)	Infundibulum (*)	Mammillary Body (*)
Cerebral Peduncles (*)		

Cerebral Hemispheres Functional areas:

Motor Association (pre)motor area	Primary motor
Somatosensory Association area	Primary Somatosensory area
Visual Association area	Primary Visual area
Auditory Association area	Primary Auditory area

Internal Anatomy of the brain:

Corpus Callosum (*)	Septum Pellucidum (*)	Fornix (*)
Intermediate Mass (*)	Thalamus (*)	Hypothalamus (*)
Pineal gland (*)	Arbor Vitae (*)	Folia (*)

Structures Involved with Cerebrospinal fluid:

Choroid Plexuses	Lateral ventricles (*)	Interventricular Foramen
Third ventricle (*)	cerebral aqueduct (*)	Fourth ventricle (*)
Lateral apertures	median apertures	Subarachnoid space (*)
Arachnoid Villi	Superior sagittal sinus	

Cranial Nerves: (see detail on next pages)

(1) Olfactory (*)	(2) Optic (*)	(3) Oculomotor (*)
(4) Trochlear	(5) Trigeminal(*)	(6) Abducens
(7) Facial	(8) Vestibulocochlear	(9) Glossopharyngeal
(10) Vagus	(11) Spinal Accessory	(12) Hypoglossal

Brain Menings:

Dura mater	Arachnoid mater	Subarachnoid space
Pia mater		

Organization of tissue in Brain:

White Matter – Nerve fibers, Myelin Sheath, Neuroglia nuclei

Grey Matter - Motor neuron cell bodies, nerve fibers, Neuroglia nuclei

Skull Review:

Internal acoustic meatus	chiasmatic groove	Optic foramen
Cribriform plate	Olfactory foramen	Superior Orbital Fissure
Foramen rotundum	Foramen Ovale	Internal Acoustic meatus
Jugular foramen	Hypoglossal canal	Foramen magnum

(*) = Structures to be observed on the Sheep brain.