181 Lab Supplement: Brain and Spinal Cord

You will primarily be using your lab manual for the brain and spinal cord lab.

When observing the sheep brain, locate the following structures:

**Before making any cuts, view the brain and locate**

Longitudinal fissure

Transverse cerebral fissure

Frontal lobe

Parietal lobe

Temporal lobe

Occipital lobe

Cerebellum

Pituitary gland

Olfactory bulbs

Optic chiasma

Pons

Medulla oblongata

**After making your sagittal section, locate**

Arbor vitae

Medulla oblongata

Thalamus

Mammillary body

Pineal body

Ventricles

Corpus callosum

**After making your coronal section locate**

Longitudinal fissure

Gray/white matter

Fornix

Lateral and third ventricles

Thalamus

Hypothalamus

**After sectioning the spinal cord locate**

Pia mater

Posterior median sulcus

Anterior median sulcus

Gray and white matter

Microscope: View the prepared slide of the spinal cord and draw it. Identify white and gray matter, anterior and posterior horns, gray commisure, central canal

Label the images below and answer the questions before leaving lab



Questions: Answers can be found in your lab manual and text book.

What are the three meningeal layers that cover the brain and spinal cord?

What is a sulcus?

What is a gyri?

Which three regions make up the diencephalon?

What function does the thalamus have?

Where is the choroid plexus found and what does it do?

In the medulla, what are the pyramids?

What is the optic chiasma?

What are the ventricles? How many are there?

What is the function of the corpus callosum?

Lab Quiz: Will cover information from your lab manual, sheep brain structures, diagrams provided in this handout, and topics covered by the questions.