

Brain Dissection

Brain Structures: Identify the following structures on the brain

- Gyrus (gyri)
- Sulcus (sulci)
- Spinal cord
- Medulla oblongata of brain stem
- Pons of brain stem
- Cerebellum
- Arachnoid mater and Pia mater (possibly dura mater)
- Frontal lobe of cerebrum
- Temporal lobe of cerebrum
- Occipital lobe of cerebrum
- Parietal lobe of cerebrum
- Olfactory bulbs
- **Longitudinal fissure**
- Optic nerve (possibly)
- Optic chiasmata
- Optic tract
- **Fourth (IV) Ventricle**
- **Inferior and Superior Colliculus**
- **Uncus**
- **Hippocampus gyrus**
- **Mammillary Bodies**
- **Infundibulum**
- Midbrain of brain stem
- Pineal body
- Corpus callosum
- **Fornix**
- **Lateral ventricles**
- **Third ventricle**
- Thalamus
- Epithalamus
- Hypothalamus
- **Cerebral aqueduct**
- Basal ganglia
- Hippocampus
- White matter
- Gray matter

Lab Discussion Questions

1. List 3 ways the sheep brain (or any 4 legged animal) is different from the human brain. (Look at the pictures in your textbook to see the human brain)
2. What is the purpose of the ventricles in the brain? What structure forms the border around the lateral ventricles? What is the purpose of that structure?
3. What is the order of the parts of the **brain stem** starting at the brain and moving towards the spinal cord?
4. List the functional differences between the 4 lobes of the cerebrum.
5. What are the main structures that make up the midbrain? List the function of each
6. Which layer of the meninges forms that outermost layer of protection? What is the name of the other two layers?
7. Pick 5 of the bolded structures above and define them.
8. List the structures that the signal from your eye takes to allow you to perceive light.
9. Where specifically would the pituitary gland be located on the brain (by what structure)?
10. Did the dissection help you learn the parts of the brain better? Why or why not? What challenges did you face while doing the dissection?