**BIOL 112 Lab Questions – 13 – Animal Respiratory Systems**

1. Dissect out the respiratory system of your rat. Trace the trachea until it branches into the lungs. Sketch.
2. Make cross sections and longitudinal sections of the trachea and examine under the dissecting microscope.
3. Examine lung tissue under the dissecting microscope. Can you see blood vessels?
4. Try to make a thin section of lung tissue to examine under the compound microscope.
5. Compare the mammalian respiratory system to gas exchange by diffusion and to tracheal systems in insects.
6. Summarize this exercise and discuss whether it helped you to understand gas exchange and respiratory systems.