

# Lab 5: Organ Systems (fetal pig dissection)

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1. **Comparative Anatomy:** How does the anatomy of a fetal pig compare to human anatomy in terms of organ placement and structure? Provide specific examples of similarities and differences.
2. **Respiratory System:** Describe the structure of the fetal pig's lungs. How are they adapted for gas exchange? Also, discuss the developmental differences you might observe in the respiratory system of a fetal pig compared to that of a mature pig.
3. **Digestive System:** Trace the path of food through the digestive system of the fetal pig, starting from the mouth and ending at the rectum. Include a description of the major organs involved and their specific functions.
4. **Circulatory System:** Explain the functioning of the fetal pig's heart, including the role of the foramen ovale and ductus arteriosus in fetal circulation. How does this differ from the circulatory system of a mature pig?
5. **Urogenital System:** Describe the urogenital system of the fetal pig. How can you differentiate between a male and female fetal pig based on their internal and external anatomical features?