**MTs 7, 8, and 9: Female Reproductive, Cardiovascular, and Respiratory Systems**

**Female Pig Uterus and Fetal Pig Dissection**

**Goals**

1. To review and examine an adult female pig uterus.
2. To remove and examine a fetal pig from the uterus.
3. To dissect and examine the immature cardiovascular and respiratory systems of a fetal pig.

**Materials**

Pregnant pig uterus, Scalpel, Large and Small Trays, Gloves, Pins

**Procedure**

1. Put on a pair of gloves and line the inside of the large and small trays.
2. Obtain dissection supplies and count each item.
3. Bring your tray to your teacher so that you can obtain a specimen.
4. At lab table handle and examine the uterus.
5. Draw and label the impregnated uterus.
6. Predict the number of fetal pigs inside the uterus simply by examining the exterior of the uterus.
7. In order to examine the interior of the uterus—you will need to make and incision in the uterus. Use only light pressure to make the incision. The incision should be the length of approximately one fetus.

\*\*\*\*\*Be careful to not cut too deeply, otherwise you will destroy the embryonic sac that the fetus is developing in. \*\*\*\*\*

1. Without removing the fetus gently rinse out the inside of the uterus.
2. Examine the layers of the uterus and describe the interior wall of the uterus.
3. Carefully lift the fetus out of the uterus without breaking the embryonic sac.
4. Examine the membranes surrounding the fetus. Describe its function during development of the fetus. Draw a diagram of the embryonic sac and the fetal pig.
5. Examine the umbilical cord. Draw and label the umbilical cord.
6. Carefully slice open the membrane allowing the fluid to drain.
7. Remove the fetus from the embryonic sac and examine it.
8. Carefully lay the fetal pig in the small dissection tray.
9. Pin down the shoulder and hip joints to the tray.
10. Carefully open the chest cavity (through the layer of skin, muscle, and the sternum).
11. Draw and label the heart, major arteries, and major veins associated with the heart of the fetal pig.

1. Draw and label the lungs of the fetal pig.
2. Place the specimen and all associated parts in the biohazard bag supplied by your teacher.
3. Carefully clean all materials, trays, and lab station.
4. Count all materials and return to your teacher.
5. Throw our gloves into the black trash can.

**Conclusions**

1. Explain how the structure of the uterus is intertwined with its function in the female reproductive system.
2. Compare and contrast the cardiovascular and respiratory systems of the organism.
3. Describe how the structures and locations of both systems intricately fits the overall functions of both systems.