

# Lab 5: Urogenital & Skeletal-Muscular Systems

## I. URINARY SYSTEM

### GOALS

You should be able to.....

- ★ Describe the role of kidneys in the urinary system.
- ★ Identify the parts of a sheep kidney.
- ★ Locate and state the functions of the urinary system organs of the fetal pig.
- ★ Trace the path of urine from its formation to its removal from the body.
- ★ Compare and contrast the urinary systems/ path of urine in males & females.

### Sheep Kidney

- ☐ p. 206: Read & use diagram to locate the following parts:
  - ✓ renal cortex
  - ✓ renal medulla
  - ✓ renal pelvis
  - ✓ renal vein & renal artery
  - ✓ ureter

### Fetal Pig

- ☐ pp. 183-185: Read & become familiar with diagrams. *NOTE: We will not cut open kidneys.*
- ☐ Locate the following structures on both male & female pigs:
  - ✓ kidneys
  - ✓ ureter
  - ✓ urethra
  - ✓ urinary bladder

## II. REPRODUCTIVE SYSTEM

### GOALS

You should be able to.....

- ★ Locate and state the functions of male & female reproductive organs in the fetal pigs.
- ★ Trace the path of sperm from production to ejaculation.

- ☐ pp. 186-191: Read introductions/ use diagrams to locate & identify functions for the following:

#### MALE:

- ✓ testes (sing. testis)
- ✓ epididymides (sing. epididymis)
- ✓ vasa deferentia (sing. vas deferens)
- ✓ urethra
- ✓ bulbourethral glands
- ✓ penis
- ✓ urogenital opening

#### FEMALE:

- ✓ ovaries
- ✓ oviducts
- ✓ uterine horns
- ✓ uterine body
- ✓ vagina

- ☐ **REVIEW:** p. 198 #1-14 & #17, 18

## III. MUSCULOSKELETAL SYSTEM

## **GOALS:**

**You should be able to.....**

- ★ **Locate and identify the functions of the tissues that make up a long bone.**
- ★ **Locate and identify the bones of a human skeleton.**
- ★ **Locate and identify selected muscles.**
- ★ **Give examples of antagonistic pairs of muscles.**

## **KEY TERMS:**

- |                        |             |
|------------------------|-------------|
| ✓ origin               | ✓ flexion   |
| ✓ insertion            | ✓ extension |
| ✓ action of the muscle | ✓ adduction |
| ✓ antagonistic pairs   | ✓ abduction |
| ✓ tendon               |             |

## **Introduction**

- ❑ p. 231: READ introduction and view Fig. 18.1

## **Long Bone**

- ❑ pp. 231-233: Use diagram & reading to locate/ identify functions for:
  - ✓ periosteum
  - ✓ medullary cavity
  - ✓ compact bone
  - ✓ yellow bone marrow
  - ✓ spongy bone
  - ✓ red bone marrow

## **Human Skeleton**

- ❑ pp. 236-237: Use diagram & procedure to identify:

✓ skull	✓ pelvis
✓ clavicle	✓ femur
✓ scapula	✓ patella
✓ sternum	✓ tibia
✓ ribs	✓ fibula
✓ humerus	✓ tarsals
✓ radius	✓ metatarsals
✓ ulna	✓ phalanges
✓ carpals	✓ vertebral column
✓ metacarpals	✓ sacrum
✓ phalanges	✓ coccyx

## **Skeletal Muscles (Muscle Man)**

- ❑ pp. 238-239: Use diagram/ reading to locate & identify functions of:

✓ Pectoralis major	✓ Deltoid
✓ Biceps brachii	✓ Triceps brachii
✓ Quadriceps femoris group	✓ Hamstring group
✓ Tibialis anterior	✓ Gastrocnemius
✓ Trapezius	
- ❑ p. 240 & p. C53: Use reading/diagrams on p. 240 to help you fill out chart on p. C53
- ❑ **REVIEW:** p. 244 #2, 4, 5, 7, 8, 12, 13, 15

## **LAB PRACTICAL REVIEW:**

**\*Use any remaining time to review organs of neck, thoracic cavity, abdominal cavity; heart & blood vessels!!**

**OPEN LAB:**

**WEDNESDAY (2/28) & THURSDAY (3/1)**

**6:00-8:00 pm**