

## LABORATORY 4

### MAMMALIAN ANATOMY

#### Learning objectives:

- 1) Know the 11 mammal organ systems and their basic functions.
- 2) Identify the major internal organs (and understand their function) of the piglet.
- 3) Be familiar with the path of blood through the mammalian heart and lungs, as well as understand how oxygenated blood is supplied to the body.
- 4) Be able to identify the main arteries supplying blood to the head and forelimbs of the piglet.
- 5) Be able to identify the main arteries and veins in the abdominal cavity of the piglet and know which organs they supply blood to.

#### Readings:

**Campbell & Reece: Biology**



#### *Compulsory readings:*

11<sup>th</sup> Ed. 12<sup>th</sup> Ed. pages

- |   |           |           |
|---|-----------|-----------|
| 1) Table 40.1: Organ systems in mammals   | 902       | 926       |
| 2) Concept 41.3: Organs specialised for sequential stages of food processing form the mammalian digestive system. | 931 - 937 | 955 - 960 |
| 3) Organisation of vertebrate circulatory systems.  | 950 - 951 | 973-975   |
| 4) Concept 42.2: Coordinated cycles of contraction drive double circulation in mammals.                           | 952 - 954 | 975-977   |

#### *Recommended readings:*

- |                                  |           |         |
|----------------------------------|-----------|---------|
| 2) Mammalian respiratory system. | 968 - 970 | 992-994 |
| 3) How a mammal breathes.        | 971 - 972 | 995-996 |

## INTRODUCTION

### **Tissues, organs, and organ systems**

Cells with a similar appearance and functions are grouped into **tissues**. There are four basic types of tissues:

- 1) **Epithelial** "sheets" of cells that over the outside of the body and line organs
- 2) **Connective** Scattered cells through an extracellular matrix that hold tissues and organs in place. There are many types of connective tissues.

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