

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:

11th Ed. 12th 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.

Laboratory 16 Mammalian Anatomy Packet Answers

M Carnoy



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