

## 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.

# Laboratory 16 Mammalian Anatomy Packet Answers

**Roman Wölfel**



## **Laboratory 16 Mammalian Anatomy Packet Answers:**

## Reviewing **Laboratory 16 Mammalian Anatomy Packet Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Laboratory 16 Mammalian Anatomy Packet Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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