

## **Laboratory Exercise 5: Respiratory anatomy**

### **Introduction**

During this lab you will carry out Exercise 36 in the Human Anatomy and Physiology Laboratory Manual.

To prepare yourself for lab you should read all of Exercise 36.

Also, if you haven't yet turned in the subject data sheet for the cardiovascular/respiratory lab, finish obtaining your data and turn it in to your instructor.

### **Objectives**

The specific objectives for the lab are outlined in page 365 of your lab manual.

The main objective of Exercise 36 is to familiarize you with the gross anatomy of the major structures of the respiratory tract - you will need to identify the structures in the list provided to you at the beginning of lab, and be familiar with their functions.

You will also become familiar with the histology of the tract – at a given point along the tract you should be familiar with the epithelium that lines the tract, and the general structure of the tract wall.

### **Preparation:**

The following resources are available to prepare you for lab.

### **Required preparation:**

#### Exercise 36

Read Exercise 36 in the lab manual.

### **Optional preparation**

Read pages 834 – 847 in your lecture textbook – Table 23-1 is useful in summarizing functions of various parts of the tract.

### **In-lab assignment**

Complete Review Sheets, Exercise 36 (pp. 613 – 615) and turn them in at end of lab – complete upper and lower respiratory system structures, 1 – 13; skip section on lung inflation; complete questions on prepared slides.