

Name: _____ Unit: _____ Date: _____ Pd: _____

Lab: Types of Cells – Modeling Anatomy Based on Physiology

CP A & P

My type of Specialized Cell #1

Procedure:

1) Create a 3-D model of your specific cell using play-doh. The purpose of this is to understand why cells specialize their shape and structures based on their physiology. Take a picture of your cell model and upload it to the box below.



2) Using the picture that you created, label all necessary cell structures. Each of the cells that are used in this activity have some type of specialized structure, organelle, or shape. Make sure to emphasize the structures that are specific to that cell.

3) Answer the following questions by doing some basic research about your cell. **(TYPE ALL ANSWERS IN RED)**

- What type of stem cell does your cell originate from? What other types of cells can be a product of this type of stem cell? (see image on website)

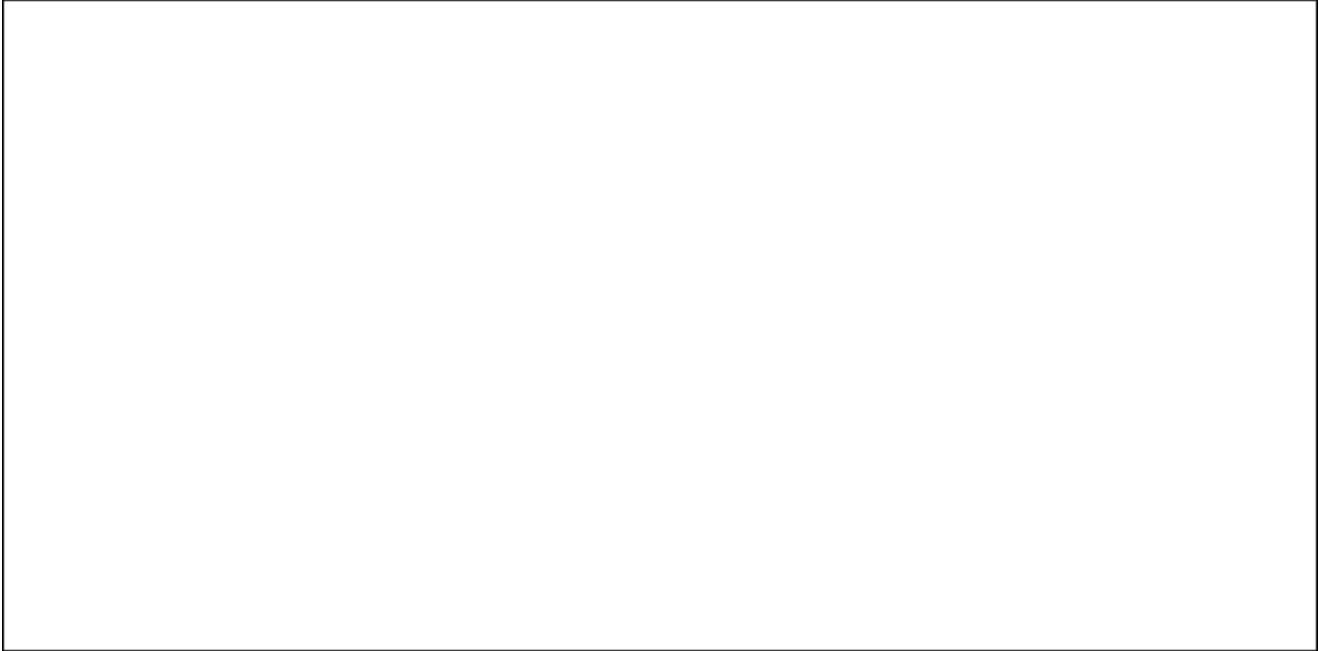
- What are some of the specialized functions of your cell? Describe how the anatomy of the cell matches with it's physiology:

- Where in the body are your cells found? What body system(s) do/does your cell most closely work with?

My type of Specialized Cell #2

Procedure:

1) Create a 3-D model of your specific cell using play-doh. The purpose of this is to understand why cells specialize their shape and structures based on their physiology. Take a picture of your cell model and upload it to the box below.



2) Using the picture that you created, label all necessary cell structures. Each of the cells that are used in this activity have some type of specialized structure, organelle, or shape. Make sure to emphasize the structures that are specific to that cell.

3) Answer the following questions by doing some basic research about your cell. **(TYPE ALL ANSWERS IN RED)**

- What type of stem cell does your cell originate from? What other types of cells can be a product of this type of stem cell? (see image on website)

- What are some of the specialized functions of your cell? Describe how the anatomy of the cell matches with it's physiology:

- Where in the body are your cells found? What body system(s) do/does your cell most closely work with?