

# OBSERVING OVARIAN FOLLICLES

STUDENT BOOK Chapter 5, page 143

TOOLBOX Pages 23, 25

## Goal

Observe the stages of development of an ovarian follicle.

## Observation criteria

1. What are the four stages of development of an ovarian follicle?

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2. What characteristics allow for recognition of each stage of development of an ovarian follicle when observed during this lab? Record your answers in the table below.

Stage	Characteristics

## Materials

- light microscope
- commercial slide of a mammal ovary



Name: \_\_\_\_\_ Group: \_\_\_\_\_ Date: \_\_\_\_\_

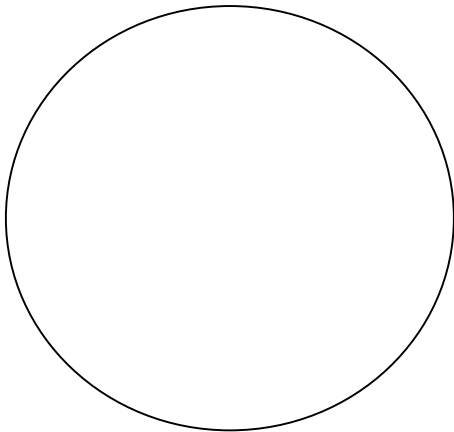
### Procedure

1. Observe the ovary under the microscope at a low degree of magnification.
2. Identify the stages of development of a follicle under the microscope at a higher degree of magnification.
3. Illustrate your observations.
4. Put away materials.

### Observations

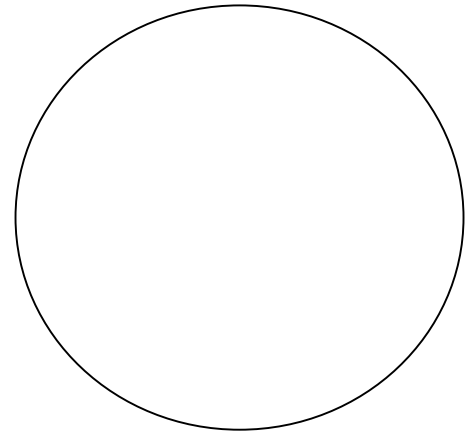
Illustrate your observations in the circles below. Make one drawing for each stage of development of an ovarian follicle. Identify the structures observed and indicate the degree of magnification. Give each circle a title.

Title: \_\_\_\_\_



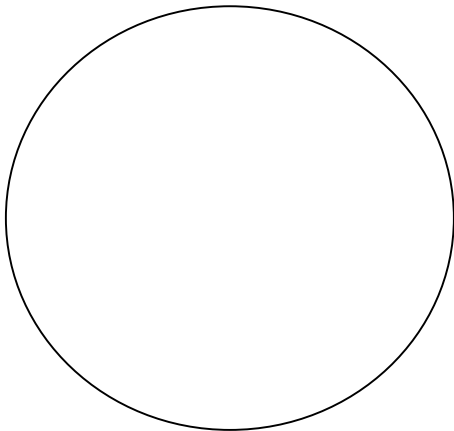
Magnification: \_\_\_\_\_

Title: \_\_\_\_\_



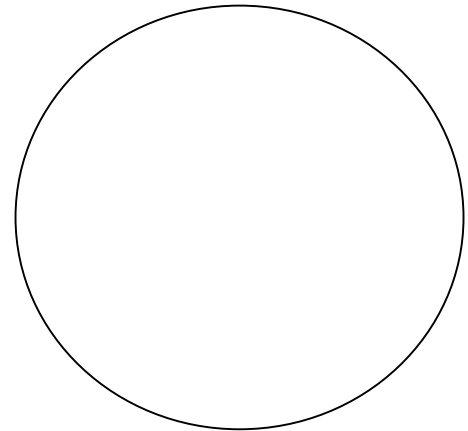
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Magnification: \_\_\_\_\_

Title: \_\_\_\_\_



Magnification: \_\_\_\_\_

Name: \_\_\_\_\_ Group: \_\_\_\_\_ Date: \_\_\_\_\_

## Reflecting on your observations

1. Do your observations help you to better understand the stages of development of an ovarian follicle? Explain your answer.

\_\_\_\_\_

2. What characteristics allow for recognition of the ovulation stage?

\_\_\_\_\_

3. What differentiates the ovarian follicle from the corpus luteum?

\_\_\_\_\_

\_\_\_\_\_

4. Is the corpus luteum actually yellow? If not, what causes the change of colour?

\_\_\_\_\_

5. What hormones are associated with each stage of development of an ovarian follicle?

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

6. What hormone is secreted by the corpus luteum?

\_\_\_\_\_

7. What is the purpose of development of an ovarian follicle?

\_\_\_\_\_

8. How could you improve the protocol for this lab?

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