

## **Chapter 46** **Animal Reproduction**

*Two closely linked cycles characterize reproduction in human females.*

- On reaching sexual maturity, human males carry out gametogenesis continuously, while human females produce gametes in cycles.
  - Ovulation occurs after the endometrium has started to thicken and develop a rich blood supply, preparing the uterus for the possible implantation of an embryo.
  - If pregnancy does not occur, the uterine lining is sloughed off, and another cycle begins.
  - The cyclic shedding of the endometrium from the uterus, which occurs in a flow through the cervix and vagina, is called **menstruation**.
- The **menstrual or uterine cycle** refers to the changes that occur in the uterus.
  - Menstrual cycles average 28 days (although cycles vary, ranging from 20 – 40 days).
- Cyclic events in the ovaries define the **ovarian cycle**.
- Hormone activity links the two cycles, resulting in the synchronization of ovarian follicle growth and ovulation with the establishment of a uterine lining that can support embryonic development.
- The reproductive cycle begins with the release from the hypothalamus of GnRH, which stimulates the pituitary to secrete small amounts of FSH and LH.
- FSH stimulates follicle growth, aided by LH, and the cells of the growing follicles start to make estradiol.
- There is a slow increase in the secretion of estradiol during the **follicular phase**, the part of the ovarian cycle in which follicles grow and oocytes mature.
  - Low levels of estradiol inhibit secretion of the pituitary hormones, keeping FSH and LH levels low.
- The secretion of estradiol by the growing follicle rises sharply, and levels of FSH and LH shoot up.
  - The high concentration of estradiol stimulates the secretion of gonadotropins by acting on the hypothalamus to increase its output of GnRH, stimulating the secretion of FSH and LH.
- LH secretion is especially high because the high concentration of estradiol increases the sensitivity of LH-releasing cells in the pituitary to GnRH.
  - Follicles also respond more strongly to LH at this stage because more of their cells have receptors for this hormone.
  - The increase in LH concentration caused by increased estradiol secretion from the growing follicle is a rare example of positive feedback.
- LH induces the final maturation of the follicle and ovulation, which takes place about a day after the LH surge.
  - The follicle and adjacent wall of the ovary rupture, releasing the secondary oocyte.
- Following ovulation, during the **luteal phase** of the ovarian cycle, LH stimulates the transformation of the follicle into the **corpus luteum**, a glandular structure.
- Under continued stimulation by LH, the corpus luteum secretes progesterone and estradiol.

# Chapter 46 Animal Reproduction Study Guide Answers

**Martha R. Taylor**

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*New Challenges and Perspectives in Conservation Breeding Programs* Eliana Pintus, José Luis Ros-Santaella, William Holt, Pierre Comizzoli, 2025-05-21 Conservation Breeding Programs CBPs remain essential tools to preserve animal biodiversity and save threatened species from extinction Despite the advances made during the last decades CBPs have been carried out only on a small number of species mostly mammals and birds There is therefore an urgent need to develop and complement in situ and ex situ strategies to also preserve other vertebrates like fish amphibians and reptiles in which the biodiversity loss because of climate change or other anthropogenic activities is even more dramatic One of the main factors that limits CBPs success is the lack of knowledge of the animal reproductive biology and behavior which is precisely known for instance in less than 4% of mammals the majority of which are terrestrial species Such knowledge is beneficial not only to enhance but also to control animal fertility that is especially warranted for the management of overabundant or invasive species which represent a further major threat for biodiversity The goal of this Research Topic is to bring together studies that deal with different aspects of animal reproduction both in captive and wild populations This includes both ex situ and in situ approaches such as the management of animal reproduction in captive populations and their reintroduction release into the wild Other approaches such as assisted reproductive technologies and biobanking greatly contribute to the success of conservation breeding This Research Topic also welcomes studies exploring the effects of biotic e g inbreeding diseases stress and abiotic e g anthropogenic activities housing and veterinary care factors on reproductive biology of all vertebrates classes with a special interest to fish amphibians and reptiles As a comprehensive knowledge of animal reproduction and behavior plays a key role for the development and success of breeding programs descriptive studies on reproductive anatomy and physiology of wild or captive species either endangered or overabundant are welcomed The Research Topic also accepts manuscripts that deal with ethical aspects of animal welfare in CBPs and population

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