

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.

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Table of Contents Chapter 46 Animal Reproduction Guide Answers

1. Understanding the eBook Chapter 46 Animal Reproduction Guide Answers
 - The Rise of Digital Reading Chapter 46 Animal Reproduction Guide Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 46 Animal Reproduction Guide Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Chapter 46 Animal Reproduction Guide Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 46 Animal Reproduction Guide Answers
 - Personalized Recommendations
 - Chapter 46 Animal Reproduction Guide Answers User Reviews and Ratings
 - Chapter 46 Animal Reproduction Guide Answers and Bestseller Lists

5. Accessing Chapter 46 Animal Reproduction Guide Answers Free and Paid eBooks
 - Chapter 46 Animal Reproduction Guide Answers Public Domain eBooks
 - Chapter 46 Animal Reproduction Guide Answers eBook Subscription Services
 - Chapter 46 Animal Reproduction Guide Answers Budget-Friendly Options
6. Navigating Chapter 46 Animal Reproduction Guide Answers eBook Formats
 - ePUB, PDF, MOBI, and More
 - Chapter 46 Animal Reproduction Guide Answers Compatibility with Devices
 - Chapter 46 Animal Reproduction Guide Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 46 Animal Reproduction Guide Answers
 - Highlighting and Note-Taking Chapter 46 Animal Reproduction Guide Answers
 - Interactive Elements Chapter 46 Animal Reproduction Guide Answers
8. Staying Engaged with Chapter 46 Animal Reproduction Guide Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 46 Animal Reproduction Guide Answers
9. Balancing eBooks and Physical Books Chapter 46 Animal Reproduction Guide Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 46 Animal Reproduction Guide Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Chapter 46 Animal Reproduction Guide Answers
 - Setting Reading Goals Chapter 46 Animal Reproduction Guide Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Chapter 46 Animal Reproduction Guide Answers
 - Fact-Checking eBook Content of Chapter 46 Animal Reproduction Guide Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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