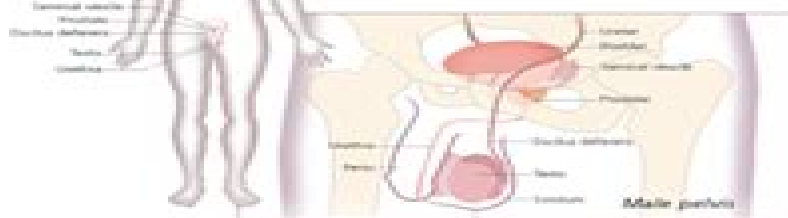




Human Reproduction

Human reproduction

Human reproduction is sexual reproduction involving male and female reproductive cells called gametes. The reproductive system includes organs called gonads that produce gametes and hormones; ducts for transport, storage and composition of gametes; accessory organs and glands for fluid secretion; and internal genitalia. Reproduction is regulated by hormones produced by the gonads, the hypothalamus and the pituitary gland. Fertilisation involves the introduction of sperm into the vagina. The sperm travels through the female reproductive tract until it encounters an ovum, a female sex cell. Fertilisation can then take place.



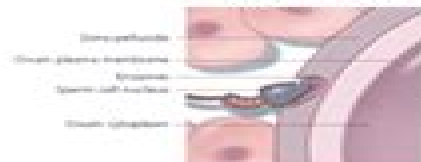
Male reproductive system

The adult male reproductive system is a complex of two primary external structures, the testes and the penis. The testes are divided into thousands of tiny compartments or lobules containing seminiferous tubules, tightly coiled structures where sperm formation takes place.

The testes are situated in a sac called the scrotum, which provides support and regulates the position of the testes relative to the body. The scrotum moves because of the testes' need to change its external temperature to maintain the proper temperature within the testes for sperm formation.

Seminiferous tubules produce sperm cells, which are transported to the epididymis, a structure in the scrotum responsible for maturing the sperm and holding it in the scrotum and penile sheath, and preventing the development of male secondary sex characteristics.

Acrosomal reaction



Fusion of plasma membranes



Fertilization

The upper portion of the vagina leads to the vaginal canal for fertilisation. Millions of sperm travel through the female reproductive tract, utilizing cilia, until they reach the egg. Within a sperm, the nucleus contains the genetic material. The sperm travels through a path made by the digestive action of the enzymes. When the cell membrane of the egg and sperm come in contact, the membranes fuse, and the sperm nucleus and associated material move into the egg. Other sperm are prevented from entering by a chemical change in the zona pellucida.

The egg nuclear membrane dissolves the chromosomes of the egg and sperm combine, and a fertilised egg, or zygote, is formed. The change process starts with a nuclear division, producing 2 identical cells called blastomeres.

Zona reaction



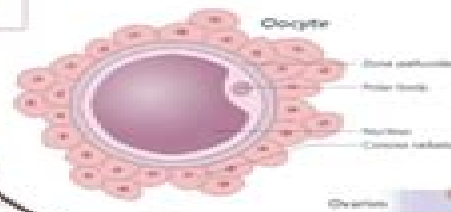
2-cell stage



Female reproductive system

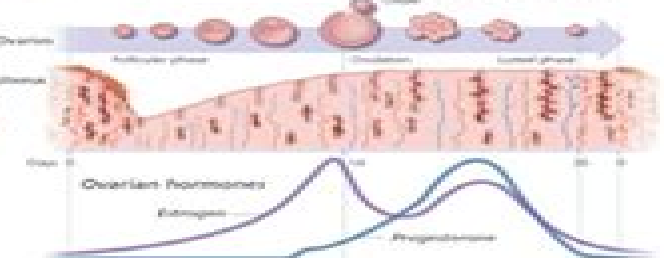
The internal structure of the adult female reproductive system includes the vagina, uterus, ovaries and oviducts. These structures form a pathway allowing the release of an egg cell, fertilisation, its growth and delivery of a developed fetus. The vagina is a muscular canal that receives the sexually transmitted organs in the female, the lower part of the uterus. It channels through the cervix allows the passage of sperm and menstrual discharge. The uterus is a hollow pear-shaped organ with muscular walls that contract during childbirth. The lower lining of the uterus is the endometrium, which undergoes during each menstrual cycle in preparation for implantation by a fertilised egg. This lining is shed during menstruation if fertilisation does not occur.

Spermatozoon



The ovaries, located on each side of the uterus, are responsible for producing ova as well as the female sex hormones estrogen and progesterone. Estrogens are responsible for the development of the female reproductive structures, sexual characteristics, and breast development. Progesterone prepares the uterus lining for implantation of a fertilised egg and is necessary for breast milk production. The ovaries are connected to the uterus by the ovarian tubes, narrow ducts that provide a passageway for the egg to reach the uterus.

Ovulation phases



Ovulation & the menstrual cycle

The menstrual cycle refers to the sequence of events that occurs in the endometrium, the cell lining lining the uterus. The cycle normally lasts approximately 28 days. The purpose is to prepare the uterus for possible pregnancy. The menstrual cycle is governed by the endocrine system. If fertilisation does not occur, decreasing estrogen and progesterone levels initiate menstruation and the cycle begins again.



Sex chromosomes



Sex determination

Each parent contributes one sex chromosome. The mother always contributes an X sex chromosome, while the father contributes either an X or a Y sex chromosome. An XX combination produces a girl, while a XY sex is an XY combination.



Human Reproductive Diagrams

Clemens Wendtner



Human Reproductive Diagrams:

Human Reproductive Diagrams Book Review: Unveiling the Power of Words

In a world driven by information and connectivity, the ability of words has been evident than ever. They have the ability to inspire, provoke, and ignite change. Such may be the essence of the book **Human Reproductive Diagrams**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book's key themes, examine its writing style, and analyze its overall impact on readers.

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Table of Contents Human Reproductive Diagrams

1. Understanding the eBook Human Reproductive Diagrams
 - The Rise of Digital Reading Human Reproductive Diagrams
 - Advantages of eBooks Over Traditional Books
2. Identifying Human Reproductive Diagrams
 - 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 eBook Platform
 - User-Friendly Interface
4. Exploring eBook Recommendations from Human Reproductive Diagrams
 - Personalized Recommendations
 - Human Reproductive Diagrams User Reviews and Ratings
 - Human Reproductive Diagrams and Bestseller Lists

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