

REPRODUCTIVE SYSTEM

- **reproduction** must take place and be successful for species to survive
 - **F**: produce genetically unique **offspring** → by mixing of genetic material of both parents

MARE

ANATOMY



CERVIX

- approx. 7cm long thick sphincter - **uterine neck** - separating uterus/vagina.
- very **tight/closed** → protection of foetus/uterus against pathogens
- relaxed/opened during oestrus (more in season) → let sperm pass
- highly **folded** → slow passage of sperms → ↑ time period for conception

UTERUS

- muscular sac consisting of **body** (± 49cm) + 2 **horns** (± 25cm) + **cervix**
- 3 layers: connective tissue (C) + muscle (M) + **endometrium** with mucus (L)
- **F**: embryo development (uterine horn) + semen transport + luteolysis

FALLOPIAN TUBES = OVIDUCTS

- approx. 25-30cm long coiled muscular tubes
- **infundibulum** - funnel shaped end of oviduct surrounding ovulation fossa - **F**: transport egg to oviduct
- place of **fertilisation** - embryo passes to uterine horn/non-fertilised egg stays there until disintegrate

OVARIES

- bean shaped due to **ovulation fossa** - **ovulation area**
- **size varies** → 4-8cm x 4-6 cm in oestrus / 1/2 in winter
- 3 layers:
 1. **cortex** - oogenesis, follicles, corpus luteum, ...
 2. **medulla** - nerves, vessels, lymph tissue, connect tissue.
 3. **tunica albuginea** - protecting single cell fibrous capsule.
- **activity**: - little until puberty (10-24 months)
 - regular from 2yo - during each oestrus
- born with many immature eggs → no production during life.
- follicles can degenerate during each stage of development



- ① **primordial follicle**
 - present at birth
 - oogenesis/primary oocyte
 - 1L of flat epithelial cells



- ③ **primary follicle**
 - present prior to puberty (10-12)
 - primary oocyte (64 Cr - full)
 - 1L of cuboidal F cells secreting F fluid → zona pellucida
 - theca membrane surround F

- ⑤ **secondary follicle**
 - following puberty (11)
 - secondary oocyte (32 Cr)
 - more L of F cells
 - theca membrane - 2 L

VULVA

- **external opening** of genital tract
- **lips** - arranged vertically right below anus
 - form **vulval seal** - protection against pathogens
- **clitoris** - seen during "winking"

VAGINA

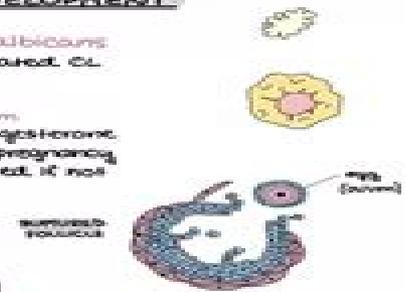
- approx. 20cm long muscular tube, very elastic
- secretes **acid** → kills bacteria + sperms
- **hymen** - fold separating 2 parts of vagina.
- **F**: protects uterus from pathogens + entrance for penis



FOLLICULAR DEVELOPMENT

- ② **Corpus albicans**
 - degenerated CL

- ⑥ **Corpus luteum**
 - secretes progesterone
 - kept during pregnancy
 - degenerated if not



- ⑦ **Granulosa follicle**
 - prior to ovulation (6)
 - mature oocyte
 - antrum filled by F fluid
 - oocyte moves to edge
 - size > 3cm (can be felt)
 - TLH → rupture → ovulation
 - egg released

Human Reproduction System Packet

Christian G. Meyer



Human Reproduction System Packet:

Resources in Education, 1985 Family Planning Zouhair Amarin, 2018-06-13 Women with unmet need for family planning are those who are fecund but are not using any method of contraception not wanting any more children or wanting to delay the next pregnancy This notion points to the gap between women's reproductive intentions and their contraceptive behavior The need for contraception remains too high This circumstance is made worse by both a growing population and a shortage of family planning services It is important that family planning is widely available and easily accessible This book is intended as an aid to substance that all health workers interested in becoming more effective practitioners will consult on many occasions during their clinical practice It provides views that the readers can test their experiences against It presents sound and clear advice on some of the most practical guidance applicable to family planning

Invertebrate Embryology and Reproduction Fatma El-Bawab, 2020-01-18 Invertebrate Embryology and Reproduction deals with the practical and theoretical objectives of the descriptive embryology of invertebrates along with discussions on reproduction in these groups of animals It explains several morphological and anatomical expressions in the field and covers the embryology of invertebrate animals starting from the Protozoa to the Echinodermata the Protochordate and Tunicates These groups include economically important aquatic invertebrates such as crustaceans as well as medically important invertebrates and economic arthropods Each chapter is preceded by the taxonomy of the discussed phylum and or the species to enable the reader to locate the systematic position Covers phylum definition general characteristics classification reproduction agametic reproduction gametic reproduction spawning fertilization development and embryogenesis Includes recent findings in the area along with detailed figures and photos that illustrate important concepts Brings together difficult to obtain research data from the field not only in Egyptian libraries but globally and previously only found through specialized references not widely available Clarifies descriptions with striking photos and electron microscopical studies of different species

A Guide in the Instruction of Sex for the Mentally Retarded Ellen Rose Cunningham, 1969 *Synopsis and Classification of Living Organisms* Sybil P. Parker, 1982

Gastrotricha and Gnathifera Andreas Schmidt-Rhaesa, 2014-12-16 This section of the Handbook of Zoology is intended as a comprehensive and exhaustive account of the biology of the taxa Gastrotricha Nematoda Nematomorpha Priapulida Kinorhyncha Loricifera Gnathostomulida Micrognathozoa Rotifera Seisonida and Acanthocephala covering all relevant topics such as morphology ecology phylogeny and diversity The series is intended to be a detailed and up to date account of these taxa As was the case with the first edition the Handbook is intended to serve as a reliable resource for decades Many of the taxa of this volume are comparatively unknown to many biologists despite their diversity and importance for example in meiofaunal communities Gastrotricha Rotifera Gnathostomulida their fascinating recent discoveries Loricifera and Micrognathozoa their importance as parasites many nematodes Nematomorpha Acanthocephala and their importance for evolutionary questions e g Priapulida Gastrotricha The groups covered range from

those poor in species such as Micrognathozoa with 2 known species to the species rich and diverse Nematoda and their ca 20 000 described species While each taxon is covered by one chapter nematodes are treated in several chapters dedicated to their structural taxonomic and ecological diversity *Education Age* ,1965 **Sexual Reproduction** Susan Michelmore,1965 *General Zoology* Stephen A. Miller,2001-05-25 Provides exercises and experiences that should help students understand the general principles that unite animal biology appreciate the diversity found in the animal kingdom and understand the evolutionary relationships and become familiar with the structure of vertebrate organ systems

Botanical Memoirs ,1919 **Journal of the British Interplanetary Society** ,1989 Bound with vol 1 1934 is the Society's annual report and list of members 1934 **Evolutionary Perspectives on Human Reproductive Behavior** Dori LeCroy,Peter Moller,2000 A central aspect of human adaptation reproductive behaviour is studied through the multiple lenses of philosophy biology psychology and anthropology all united by an evolutionary perspective Although reproduction is an intrinsic mechanism of evolution this colloquium shows that reproductive behaviours yield new significance for evolution theory when re examined in a multidisciplinary setting This volume focuses on explication of the adaptive evolved nature of our own reproduction with topics such as how mate choice shaped human nature symmetry in mate selection the evolution of moral dispositions and the sexist order of the bonobos This look at reproduction as a mechanism of human evolution reveals underlying physiologic mechanisms as well as comparative and interesting cross cultural aspects that emerge from social sciences and anthropology **Biology Matters!: Reproduction** ,2004 An introduction to sexual and asexual reproduction with terms and definitions human development life cycles aging and diseases as well as questions and answers

Chambers' Encyclopædia ,1893 **Chambers's Encyclopaedia** ,1912 Encyclopedia of Reproduction Ernst Knobil,Jimmy D. Neill,1998-10-23 The present work should serve as a convenient and comprehensive source of information encompassing all aspects of the subject of reproduction as it relates to the entire animal kingdom Preface p xxxiii

Chambers's Encyclopædia ,1890 **Chambers's Encyclopaedia, Dictionary of Universal Knowledge, Volume VI, Humber to Malta** ,1901 *Lesbian Ethics* ,1990 **Index to Educational Overhead Transparencies** National Information Center for Educational Media,1975

Human Reproduction System Packet Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Human Reproduction System Packet**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents Human Reproduction System Packet

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

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