

Reproduction

	Advantages	Disadvantages
Internal fertilisation	<ul style="list-style-type: none"> Fertilisation more likely to occur Embryo protected from predators Offspring more likely to survive 	<ul style="list-style-type: none"> Higher energy requirement to find mate Less offspring produced More energy required to raise and care for young
External fertilisation	<ul style="list-style-type: none"> Little energy required to mate Large numbers of offspring produced Offspring can be spread widely = less competition 	<ul style="list-style-type: none"> Many gametes go unfertilised Offspring often not protected by parents; many die
Asexual reproduction	<ul style="list-style-type: none"> Energy efficient Requires only 1 parent No courtship required 	<ul style="list-style-type: none"> Low genetic diversity More prone to environmental change Inhibits adaptation
Sexual reproduction	<ul style="list-style-type: none"> High genetic diversity Less prone to environmental change Facilitates adaptation 	<ul style="list-style-type: none"> Energy costly Requires 2 parents Courtship is time and resource consuming

Zygote: Diploid cell resulting from the fusion of gametes

Morula: Early stage of cell division – no differentiation

Blastocyst: Cell differentiation has occurred. Inner cell mass (ICM) will form the embryo. The outer layer (trophoblast) will form the placenta.

Implantation: The attachment of the blastocyst to the wall of the uterus

Pregnancy: The state of carrying a developing embryo of foetus within the female body

Embryo: The developing human from fertilisation to the eighth week of pregnancy

Foetus: Eighth week onwards, the embryo begins to look more human-like

Acrosome: The tip of the sperm cell containing digestive enzymes

Corona Radiata: Surrounds egg and consists of 2-3 layers of cells from follicle. Main purpose is to supply vital proteins to the cell.

Androgens:

- Male hormones
- Control development of male sex organs and secondary sex characteristics

Oestrogen:

- Main group of female hormones
- Control the development of female reproductive systems and secondary sex characteristics

Progestogens: primary role in pregnancy

Fertilisation:

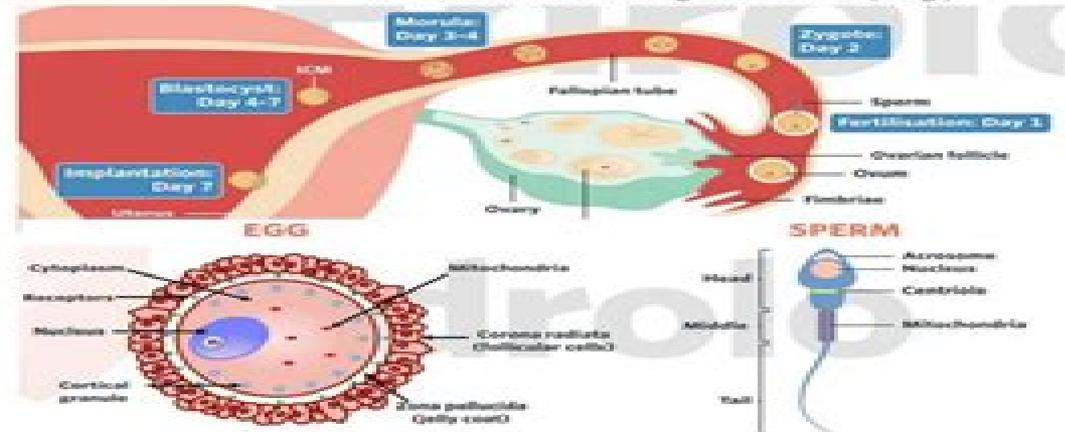
- External: Sperm and egg unite outside the female body e.g. amphibians, fish
- Internal: Sperm and egg unite inside the female body e.g. reptiles, birds, mammals

Reproduction:

- Asexual: Involves one parent. Offspring are genetically identical
- Sexual: Involves two parents. Offspring are not genetically identical. Allows for genetic variation.

Budding: Adult organism gives rise to a small bud which separates from the parent and grows into an individual e.g. yeast (fungi, protists)

Spores: Usually one-celled, minute reproductive unit capable of giving rise to a new individual without sexual fusion e.g. mushrooms (fungi)



Artificial Pollination:

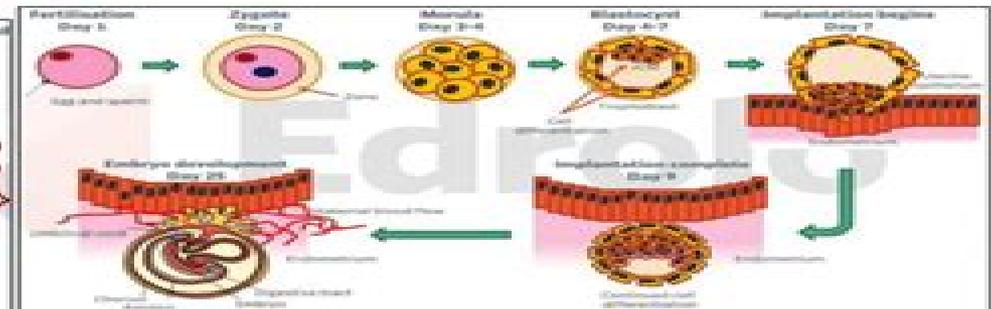
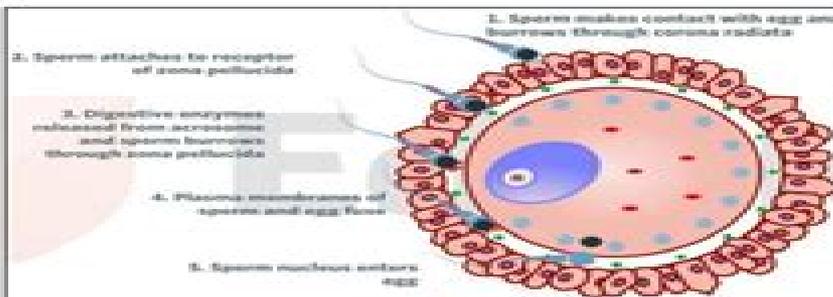
- Useful, easy and cheap
- Cannot guarantee 'favourable' trait is passed on
- Reduced genetic variations

Artificial Insemination:

- Easy transport, semen can be stored for long periods of time
- Cannot guarantee 'favourable' trait is passed on
- Reduced genetic variations

Cloning:

- Guaranteed to express desired trait
- No genetic variation
- Expensive
- Ethical issues



Biology Modules

JE Gale



Biology Modules:

This book delves into Biology Modules. Biology Modules is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Biology Modules, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to Biology Modules
- Chapter 2: Essential Elements of Biology Modules
- Chapter 3: Biology Modules in Everyday Life
- Chapter 4: Biology Modules in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Biology Modules. The first chapter will explore what Biology Modules is, why Biology Modules is vital, and how to effectively learn about Biology Modules.
3. In chapter 2, the author will delve into the foundational concepts of Biology Modules. This chapter will elucidate the essential principles that need to be understood to grasp Biology Modules in its entirety.
4. In chapter 3, this book will examine the practical applications of Biology Modules in daily life. This chapter will showcase real-world examples of how Biology Modules can be effectively utilized in everyday scenarios.
5. In chapter 4, this book will scrutinize the relevance of Biology Modules in specific contexts. This chapter will explore how Biology Modules is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Biology Modules. This chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Biology Modules.

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