

Reproduction

	Advantages	Disadvantages
Internal fertilisation	- Fertilisation more likely to occur - Embryo protected from predators - Offspring more likely to survive	- Higher energy requirement to find mate - Less offspring produced - More energy required to raise and care for young
External fertilisation	- Little energy required to mate - Large numbers of offspring produced - Offspring can be spread widely = less competition	- Many gametes go unfertilised - Offspring often not protected by parents; many die
Asexual reproduction	- Energy efficient - Requires only 1 parent - No courtship required	- Low genetic diversity - More prone to environmental change - Inhibits adaptation
Sexual reproduction	- High genetic diversity - Less prone to environmental change - Facilitates adaptation	- 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:

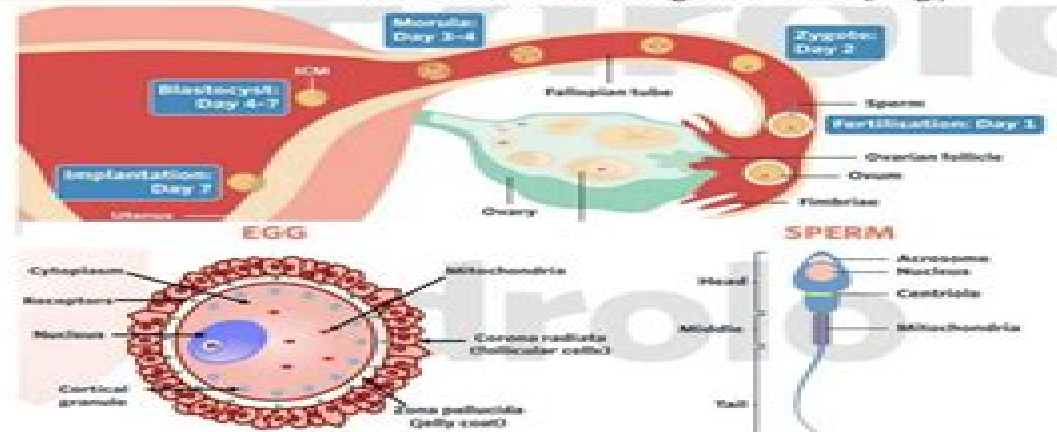
- External: Sperm and egg unite outside the female body e.g. amphibians, fish
- Internal: Sperm and egg unite inside the female body e.g. reptiles, birds, mammals

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:

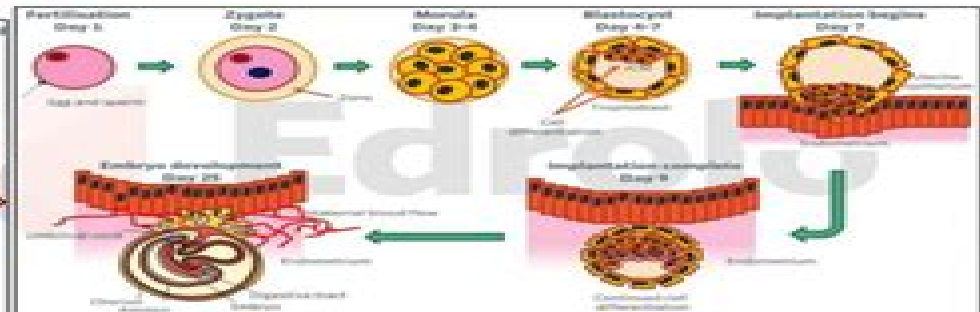
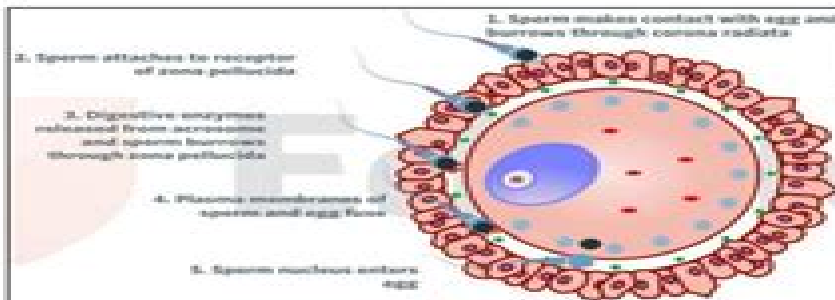
- Useful, easy and cheap
- Cannot guarantee 'favourable' trait is passed on
- Reduced genetic variations

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

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Biology Modules:

Unveiling the Magic of Words: A Review of "**Biology Modules**"

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