

CONCEPT MAP

ASEXUAL REPRODUCTION

Life cannot be created de novo either it arises from pre-existing life. Reproduction is the only method by which continuity of life is ensured. It is of two types: asexual and sexual. Asexual reproduction is the formation of new individuals without involving fusion of gametes. It is uniparental as offspring are produced by a single parent.

Fission

- It is a type of asexual reproduction in which the parent organism divides into two or more daughter cells.
- In this type of reproduction, whole parent body acts as the reproductive unit.
- It is of three types:



Fig. Binary fission in (a) Amoeba (b) Paramecium

- Binary Fission** - In this, parent organism divides into two halves, each half forming an independent daughter organism. It can be simple (occurs through any plane, e.g., Amoeba), longitudinal (plane of division is longitudinal axis of body, e.g., Spirogyra), transverse (plane of division runs along transverse axis of body, e.g., Paramecium) and oblique (plane of division is oblique, e.g., Ceratium).

- Multiple Fission** - In this process, parent body divides into many similar daughter organisms. It occurs during unfavourable conditions. Nucleus of the parent divides by repeated mitosis into many nuclei which eventually form several daughter cells. E.g., Amoeba (Plasmodium (malaria parasite)).
- Plasmotomy** - Division of multinucleate parent into many multinucleate daughter individuals without division of nuclei. Nuclear division occurs later to maintain number of nuclei. E.g., Opalina, Heliozoa.



Fig. Multiple fission (a) Amoeba (b) Malaria parasite

Budding

- Budding refers to the process of formation of daughter individuals from a small projection or bud arising on the parent body.
- Each bud enlarges, develops parental characters and separates to live an independent life.
- Budding can be either **exogenous** (formed on the outer surface, e.g., Hydra, yeast) or **endogenous** (formed inside parent body) e.g., Spongia. In Spongia, buds are called **gemmules**.

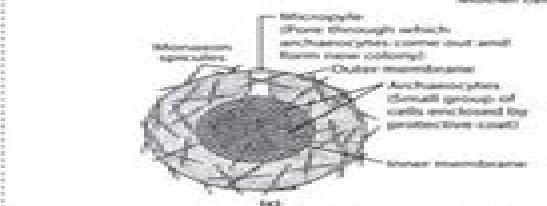


Fig. (a) Exogenous budding in Hydra (b) Endogenous budding in Spongia

CHARACTERISTICS OF ASEAXUAL REPRODUCTION

- It is more primitive than sexual reproduction as it involves only mitotic divisions.
- New organisms are produced from the somatic part of parental organism, so it is also called as **somulogonic reproduction**.
- New individuals produced are genetically similar to the parent as well as to each other and are called **clones**. Hence, it plays no role in evolution.
- Unit of reproduction may be either whole parent body, or a bud, or a body fragment, or a single somatic cell.
- It is usually found in lower organisms like protists (prokaryotes), sponges, (Cnidaria), coelenterates, (Mollusca, Tubulinea, etc.), certain flatworms (Planaria), some worms and tunicates (Dolys, Ascidia, etc.). It is absent in higher invertebrates and all vertebrates.

Regeneration

- It refers to the growth of new tissues or organs to replace lost or damaged part.
- Regeneration is of two types: **morphallaxis** (formation of whole body from a fragment) and **epimorphosis** (replacement of lost part). It can be reparative (regeneration of damaged tissue only) or restorative (development of severed body part). In epimorphosis, a mass of undifferentiated cell referred to as blastema is formed after wound healing and then the blastema cells actively proliferate to restore the lost part of the amputated organ.
- Regeneration is found in Hydra, starfish, planaria, etc.



Fig. (a) Regeneration in (i) Hydra (ii) Hydra (iii) Starfish (iv) Epimorphosis

TYPES OF ASEAXUAL REPRODUCTION

Fragmentation

- In this type of reproduction, parent body breaks into two or more pieces called fragments.
- Each fragment develops into a new organism.
- In fragmentation, rate of reproduction is high.
- It occurs in flatworms, sea anemones, coelenterates, echinoderms, algae like Spirogyra, etc.

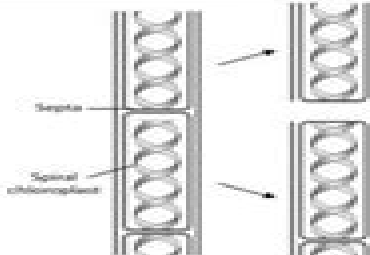


Fig. Fragmentation in Spirogyra

Sporulation

- Spores are minute, single celled, thin or thick walled propagules which are dispersive structures released from the parent body and form new individuals. Spore formation is common in members of monera, protista, algae and fungi. Some of the commonly produced spores are:

- Zoospores** - Motile and flagellated spores produced inside zoosporangia. Flagella help in proper dispersal in aquatic habitat. E.g., algae and lower fungi like Phycomycetes.
- Conidia** - These are spores produced singly or in chains by constriction at the tip or lateral side of special hyphal branches called conidiophores. These are dispersed by wind and germinate to form new individuals. E.g., Penicillium.
- Chlamydozoospores** - Thick walled spores produced directly from hyphal cells. May be terminal or intercalary in position and capable of withstanding unfavourable conditions. E.g., Rhizopus.
- Oidia** - Small fragments of hyphae that are thin walled and do not store reserve food material. Oidia give rise to new hyphae. These are formed under conditions of excess water, sugar and certain salts. E.g., Agaricus.
- Sporangiospores** - Non-motile spores produced inside sporangia. Usually get dispersed by wind and germinate to form new mycelium. E.g., Rhizopus, Mucor.

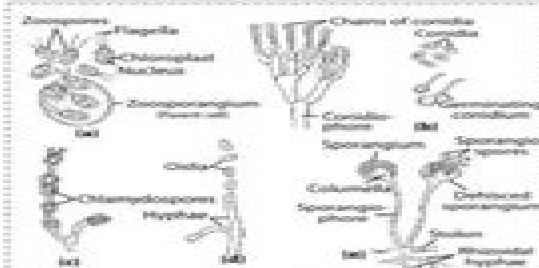


Fig. Various types of spores (a) Zoospores (b) Conidia (c) Chlamydozoospores (d) Oidia (e) Sporangiospores

Asexual And Sexual Reproduction Genetics Concept Map

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