

## Modes of Reproduction

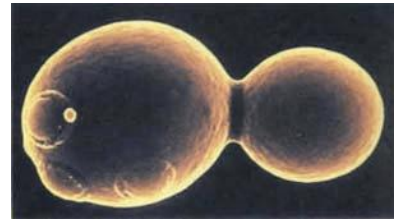
**ASEXUAL** - One parent cell divides by mitosis to produce two identical cells which are clones of the original parent. There are five (5) types for you to study:

1. **Budding** - in this type of asexual reproduction an outgrowth on the parent organism develops into a new organism that separates from the parent.

Examples :



Hydra



Yeast

2. **Binary Fission** - one-celled organism divides by mitosis to make two organisms

Example:

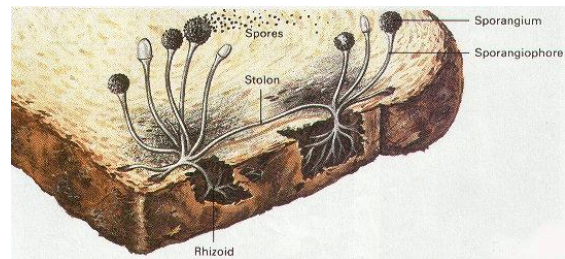


Bacteria

3. **Spore Production** - mitotic copies of the parent are produced and then dispersed. This is common in Fungi

Example:

Bread Mold



4. **Fragmentation** - pieces of the parent organism break off, and each section is able to form a new organism.

Examples:

Houseplant Cuttings



5. **Parthenogenesis** - Mitotic division from unfertilized eggs

Example:

Aphid



**SEXUAL** - Two parents are needed to create an offspring. Each parent produces sex cells through meiosis. These sex cells are combined to produce the offspring. Offspring may resemble but are not identical to the parents.