

# Meiosis and process involved in it

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## Meiosis and its Stages

[Meiosis](#) cell division is crucial for necessary for sexual reproduction. It produces gametes known as sperm and egg cells in animals. The Fungi generates spores. [Meiosis](#) starts with one cell with two copies of each chromosome. In this one chromosome received from the particular organism's mother and one from its father. They produce 4 gamete cells each with one copy of chromosome. All the resulting chromosomes of the gamete cells are a unique mixture of both parental [DNA](#). This ensures that's the off springs shows the variations from their parents. This encourages the genetic diversity rate in sexually reproducing organisms and enables the evolution processes.

## REPRODUCTION IN MEIOSIS

[Meiosis](#) converts a diploid cell into a haploid cell. This makes a unique change in the genetic information of the organism and helps for the rise in the rate of diversity of organism.

## Asexual (vegetative) reproduction

- A form of duplication using only mitosis.
  - Example, a new plant grows out of the root or a shoot from an existing plant.
  - Produces only genetically identical [offspring](#) since all divisions are by mitosis.
1. Clones are the offsprings has an exact copy of the original organism
  2. This is a rapid and effective mechanism allows the organisms to spread.
  3. No diversity introduction is possible because they are totally identical to the parental organism.

## Sexual Reproduction

- Combination of two haploid sex cells produces the gametes.
- [Fertilization](#) is the process named for the combination of genetic information from two parental cells and it results with the equal half information from the parental organism.
- The Female organisms produce 'egg' and the Male produces sperm
- Both are haploid and has a single set of chromosomes
- The zygote will be formed in a diploid state.

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## Reference Links:

- <http://www.cellsalive.com/meiosis.htm>
- <http://en.wikipedia.org/wiki/Meiosis>
- <http://biology.about.com/od/meiosis/ss/meiosisstep.htm>
- <http://highered.mcgraw-hill.com/olcweb/cgi/pluginpop.cgi?it=swf::535::535::/sites/dl/free/0072437316/120074/bio19.swf::Stages%20of%20Meiosis>
- <http://www.youtube.com/watch?v=vXNaTRs83hE>

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