

Sexual reproduction

- Sexual reproduction involves a cycle of (1) **plasmogamy** followed by (2) **karyogamy** and (3) **meiosis**.
- Three kinds of sexual cycles are distinguished in fungi:-
- **HAPLOBIONTIC-HAPLOID LIFE CYCLE**- There is only one free living haploid thallus in the life cycle of a fungus.
- This condition is seen in fungi belonging to Mucorales and Ascomycetes.
- **HAPLOBIONTIC-DIPLOID LIFE CYCLE**: There is only one free living diploid thallus in the life cycle of a fungus.
- Life cycles of this type are found in many Oomycetes and in yeast *Saccharomyces cerevisiae*.
- **DIPLOID LIFE CYCLE**: There is alternation between a haploid and diploid generation. It is seen in *Allomyces*.

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Thank you