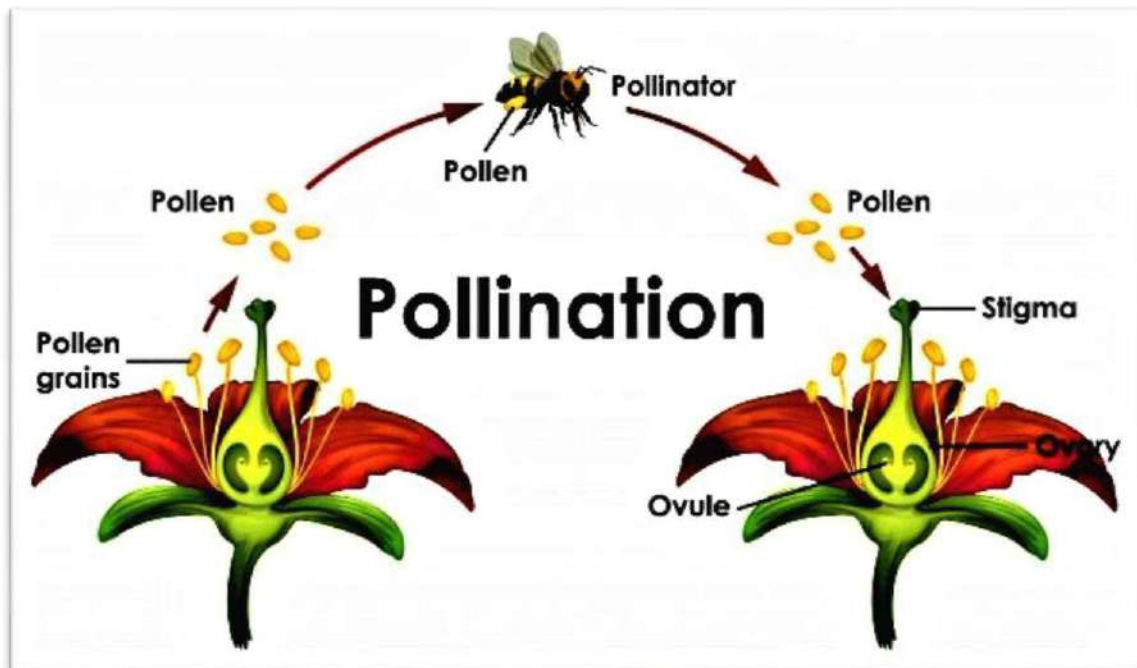


Modes of Pollination



The process by which pollen grains are transferred from anthers to stigma is referred as pollination.

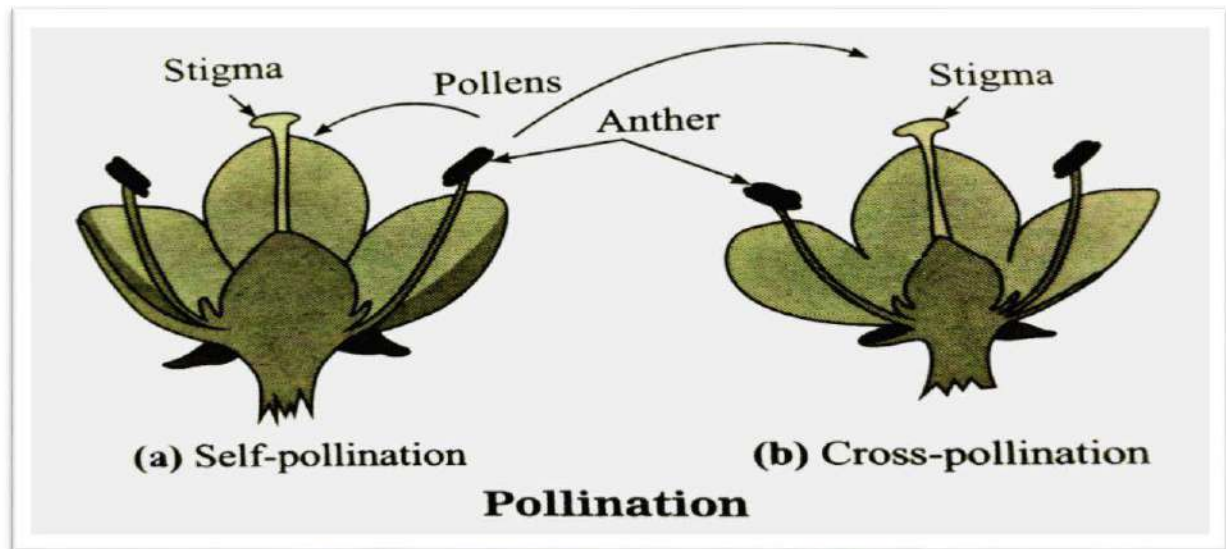
Pollination is of two types: viz.

- 1. Autogamy or Self-pollination and**
- 2. Allogamy or Cross pollination.**

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Autogamy or Self-pollination



- Transfer of pollen grains from the anther to the stigma of same flower is known as autogamy or self-pollination.
- Autogamy is the closest form of inbreeding. Autogamy leads to homozygosity.
- Such species develop homozygous balance and do not exhibit significant inbreeding depression.

Mechanism promoting self-pollination

1. Bisexuality

- Presence of male and female organs in the same flower is known as bisexuality.
- The presence of bisexual flowers is a must for self-pollination.
- All the self-pollinated plants have hermaphrodite flowers.

1) Homogamy

- **Maturation of anthers and stigma of a flower at the same time is called homogamy.**
- **As a rule, homogamy is essential for self-pollination.**

2) Cleistogamy

- **When pollination and fertilization occur in unopened flower bud, it is known as cleistogamy.**
- **It ensures self-pollination and prevents cross pollination.**
- **Cleistogamy has been reported in some varieties of wheat, barley, oats and several other grass species.**

3) Chasmogamy

- **Opening of flowers only after the completion of pollination is known as chasmogamy.**
- **This also promotes self-pollination and is found in crops like wheat, barley, rice and oats.**

4) Position of Anthers

- **In some species, stigmas are surrounded by anthers in such a way that self-pollination is ensured.**

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- Such situation is found in tomato and brinjal. In some legumes, the stamens and stigma are enclosed by the petals in such a way that self-pollination is ensured.
- Examples are Green gram, Black gram, Soybean, Chickpea and Pea.

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