

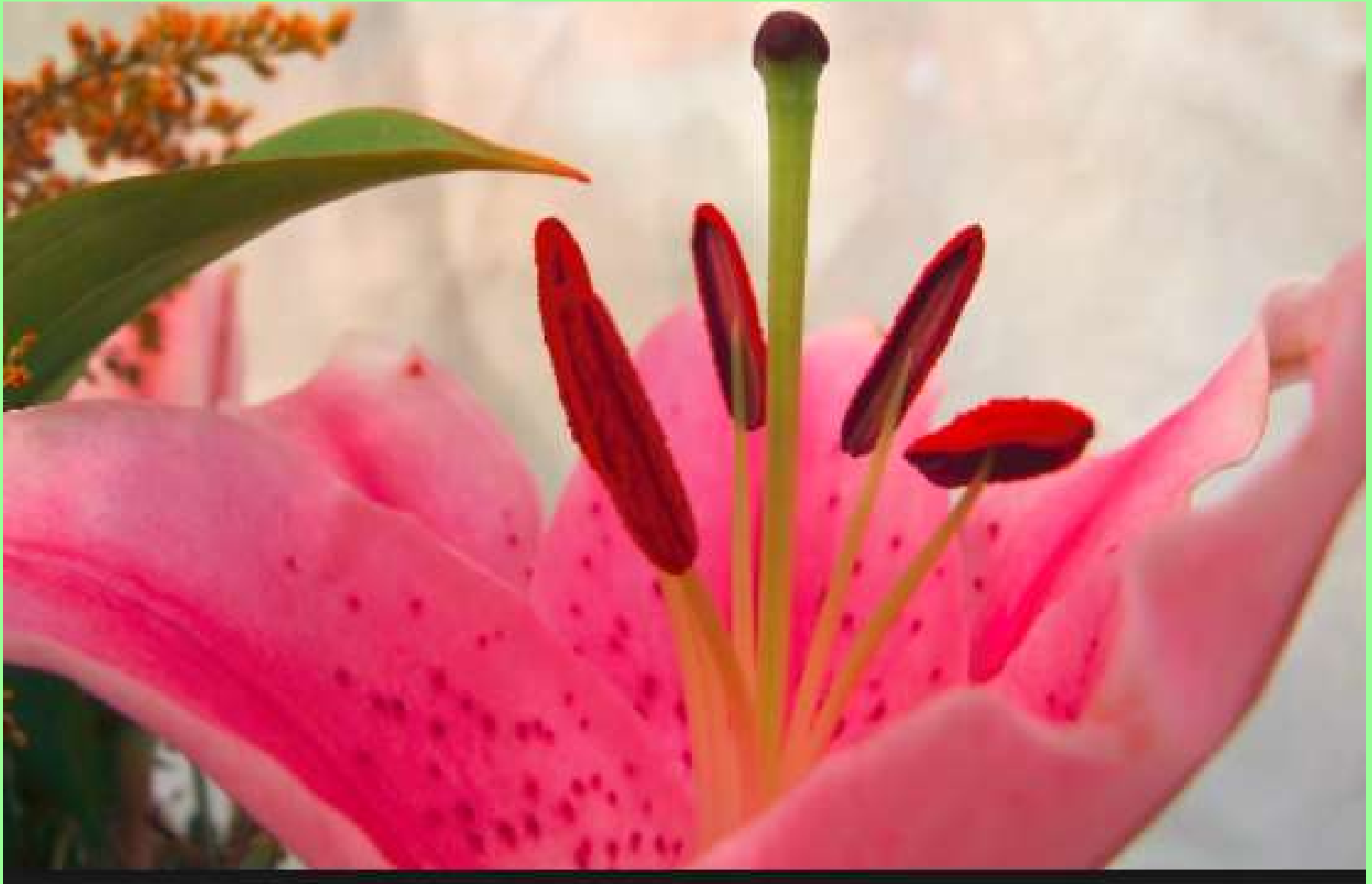
Reproduction in Flowering Plants



Mrs. Zemcik

Living Environment

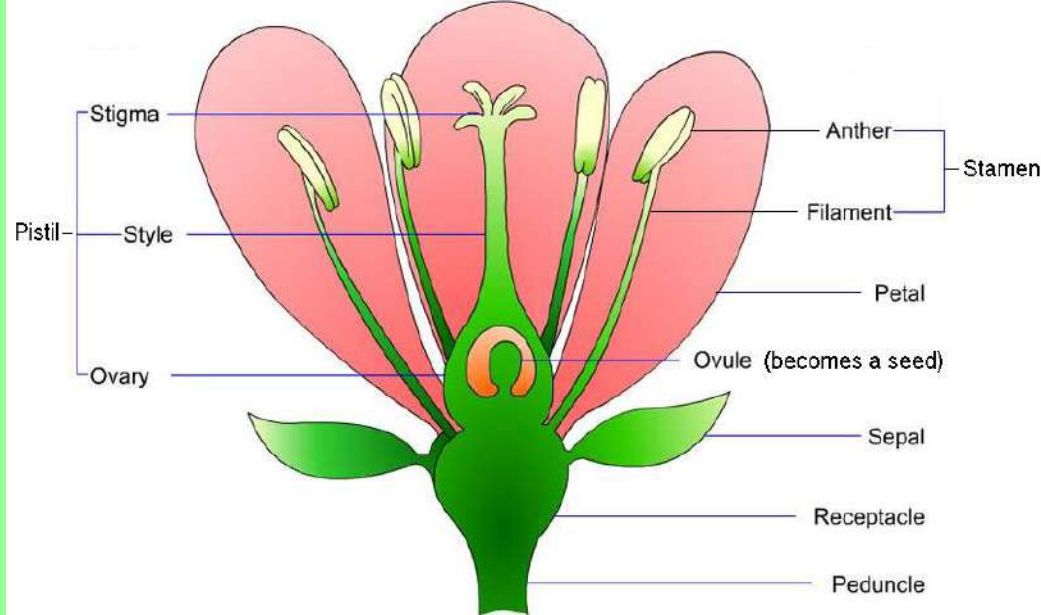
Secret Lives of Flowers



Secret Lives of Flowers

- Flowers are actually the sexual reproductive structure of a plant.
- Some flowers produce both egg and sperm, while others only produce one or the other.
- Fertilization takes place inside the flower

Female
reproductive
organ



Male
reproductive
organ

Pistil

- *Stigma –top of the pistil, Sticky surface for pollen to stick to
- *Style – connects the stigma to the ovary
- *Ovary –contains ovules (eggs)

Stamen

- *Anther – produces sperm nuclei by meiosis. Sperm nuclei are enclosed by pollen grains.
- *Filament – holds the anther up

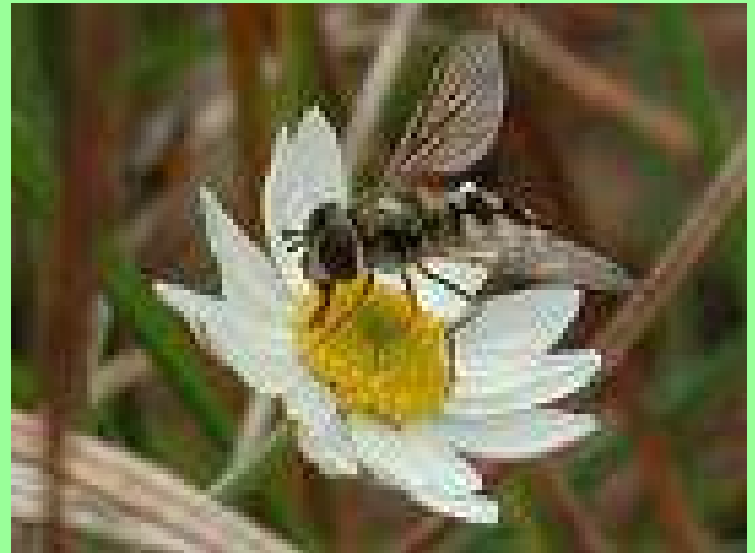
Pollination

- Transfer of mature pollen grains from the anther to the stigma

-wind

-insects

-birds & other animals



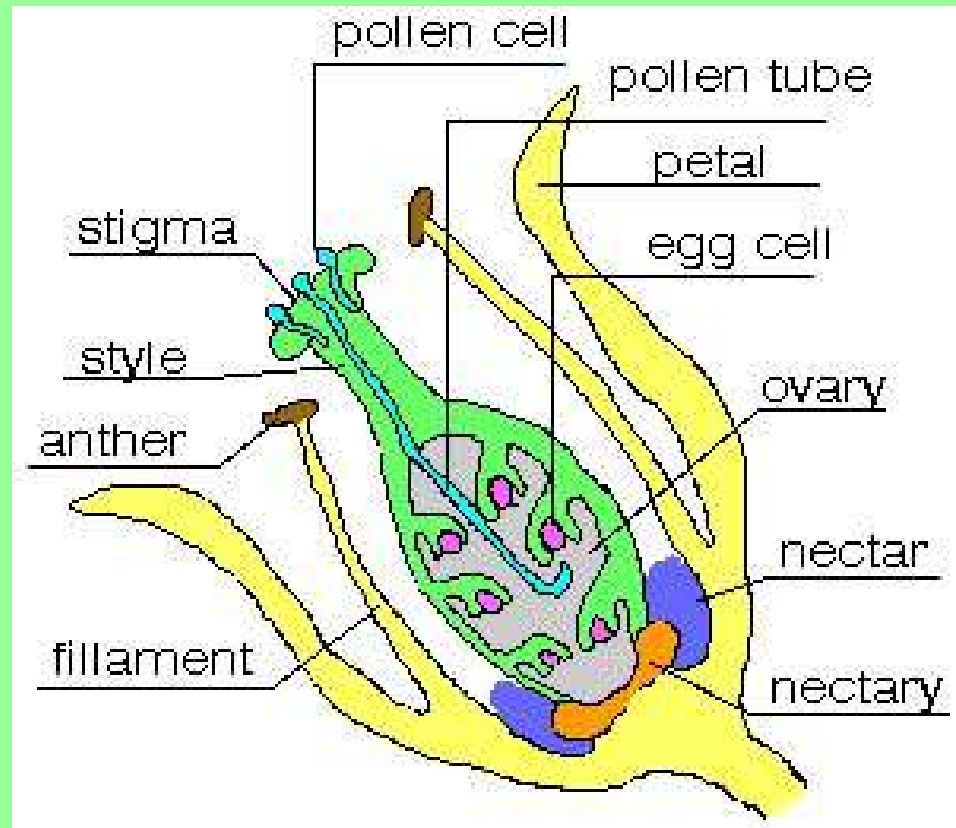
Pollination

One part of the flower called the **"ANTHER"** makes pollen.

Another part of the flower, called the **"PISTIL"** leads to the eggs.

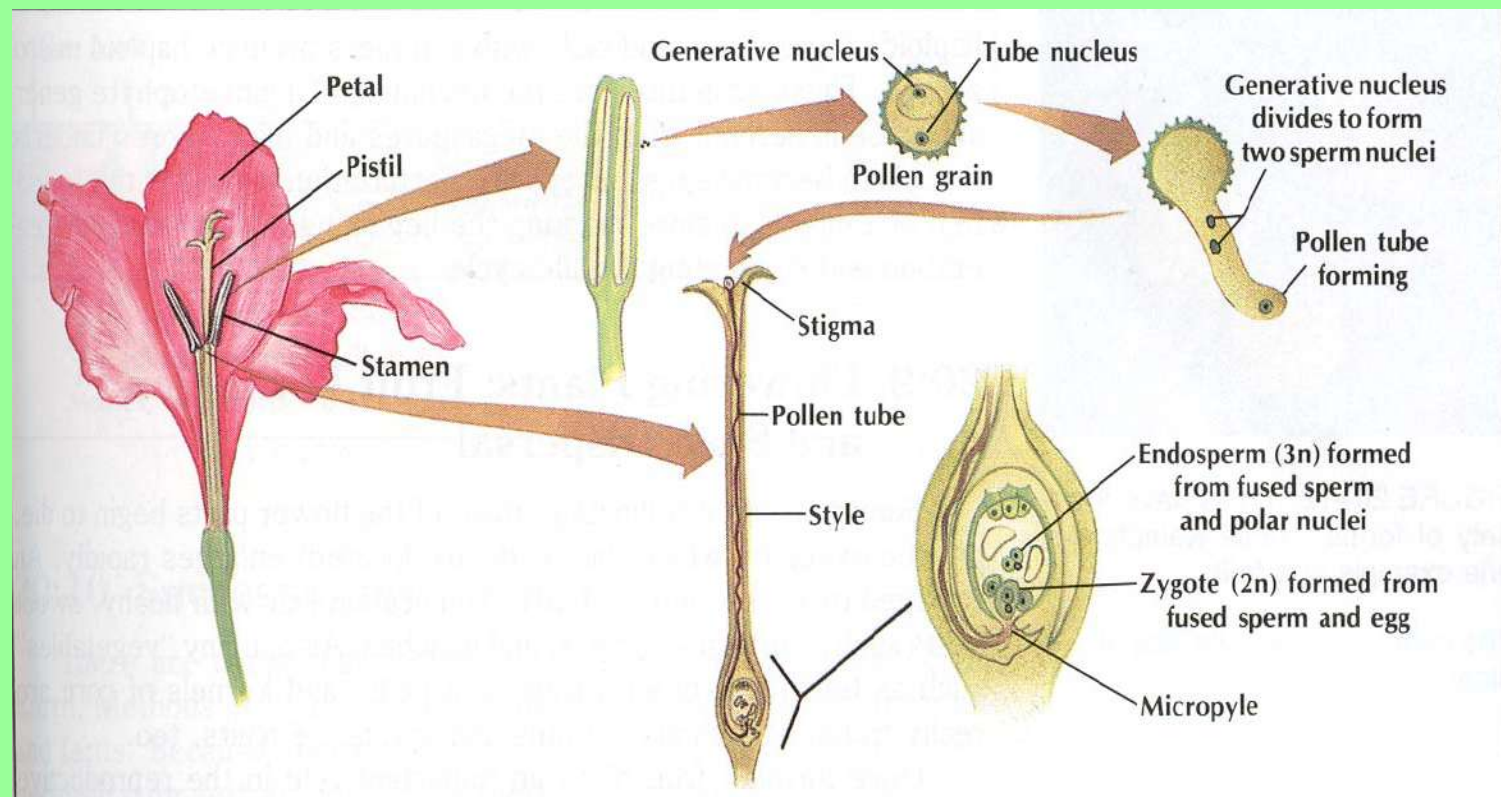


- When a pollen grain lands on the stigma, it germinates and a pollen tube grows down through the style to an ovule (egg)



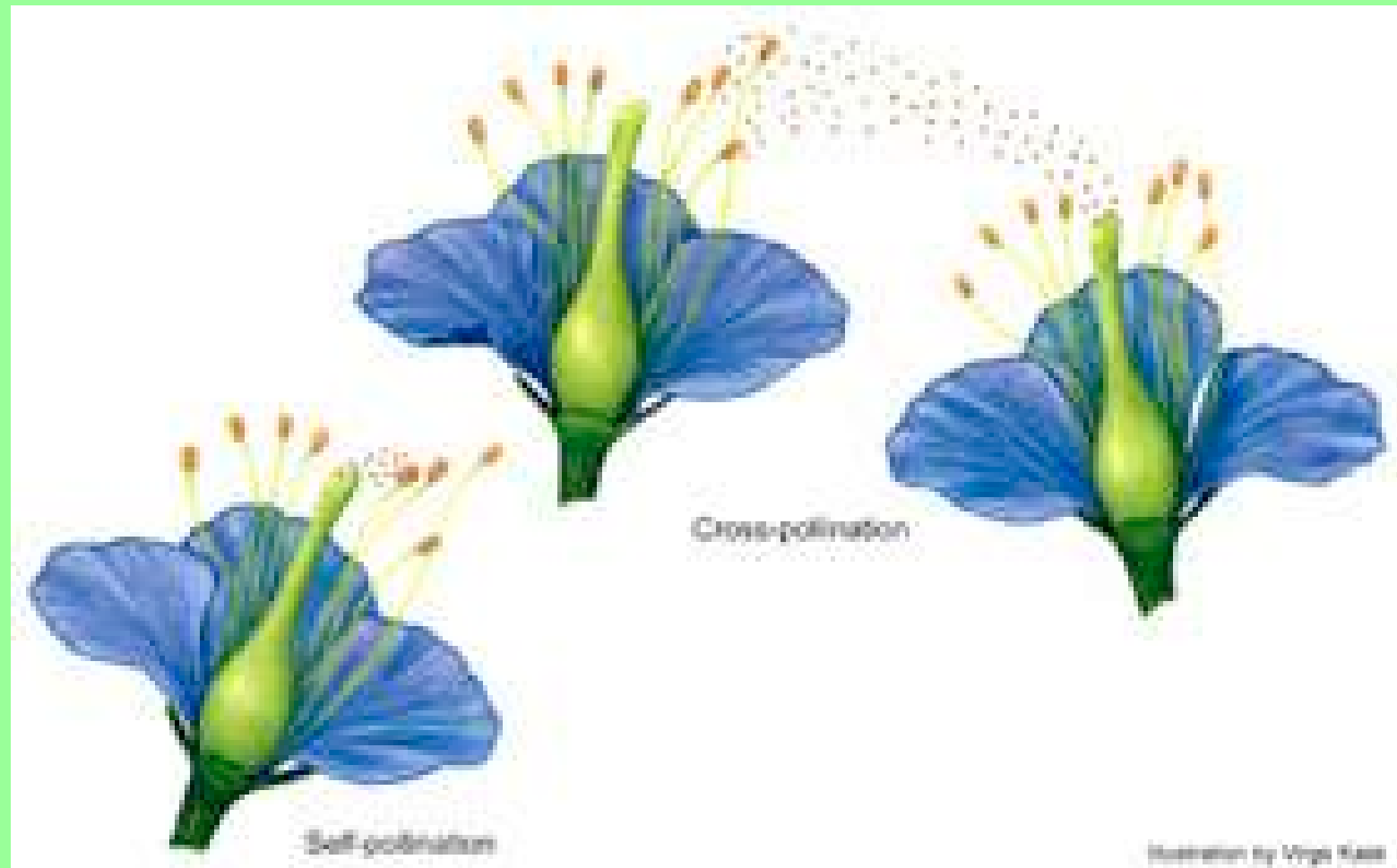
Fertilization

- The sperm travels through the pollen tube to the ovule. The sperm & egg fuse forming the zygote (fertilized egg) –this grows into the plant embryo (cells grow by mitosis)



***Self pollination** –pollen from same flower

***Cross pollination** – pollen from a different flower
- more variation



- The ovary and zygote develop and ripen.

*The **ovule** forms the **seed** and the **ovary** forms the **fruit**.

- A fruit is a ripened ovary



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