

Movements in plants

Plants show many types of movements. Movements in plants are of two main types. They are :-Tropic movements and Nastic movements.

Tropic-Movement

Nastic Movement

Tropic movements

Tropic movements are directional movements towards or away from the stimulus and it depends on growth.

Tropic movements in plants are as follows.

(Click on buttons)

Photo-tropism

Thigmotropism

**Geo-Tropism
& Hydro-tropism**

Chemotropism

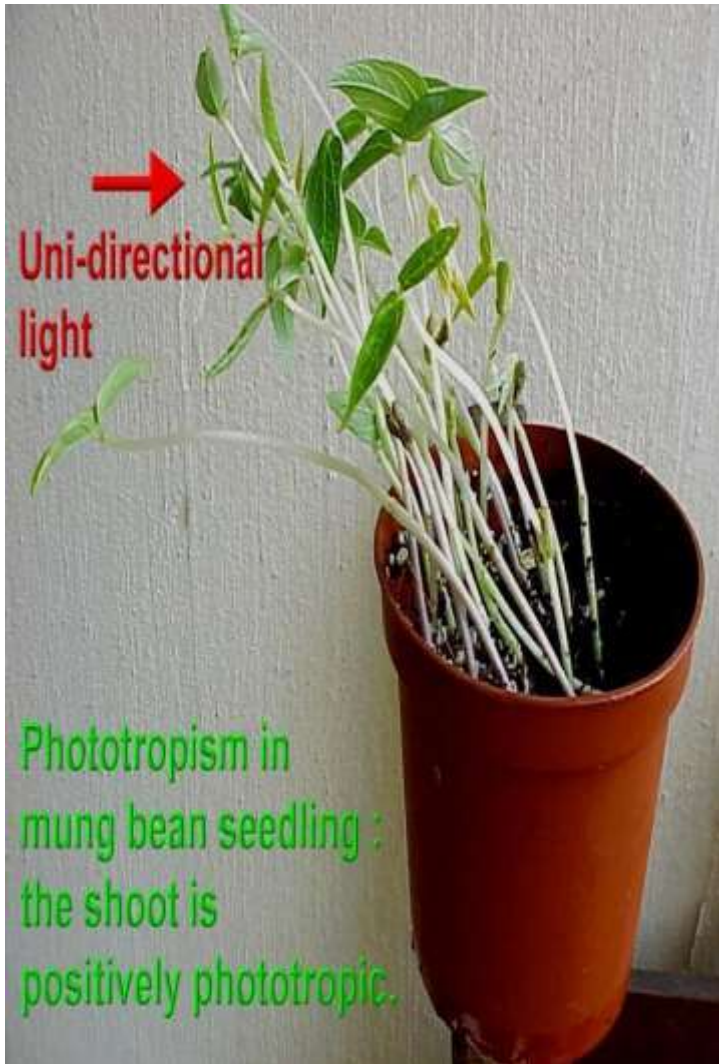
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Phototropism

It is movement of plants in response to light.

If it is towards light, it is called positive phototropism. Eg:- Bending of shoot towards light.

If it is away from light, it is called negative phototropism. Eg:- Bending of root away from light.



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GEOTROPISM

Geotropism :- It is the movement of plants in response to gravity

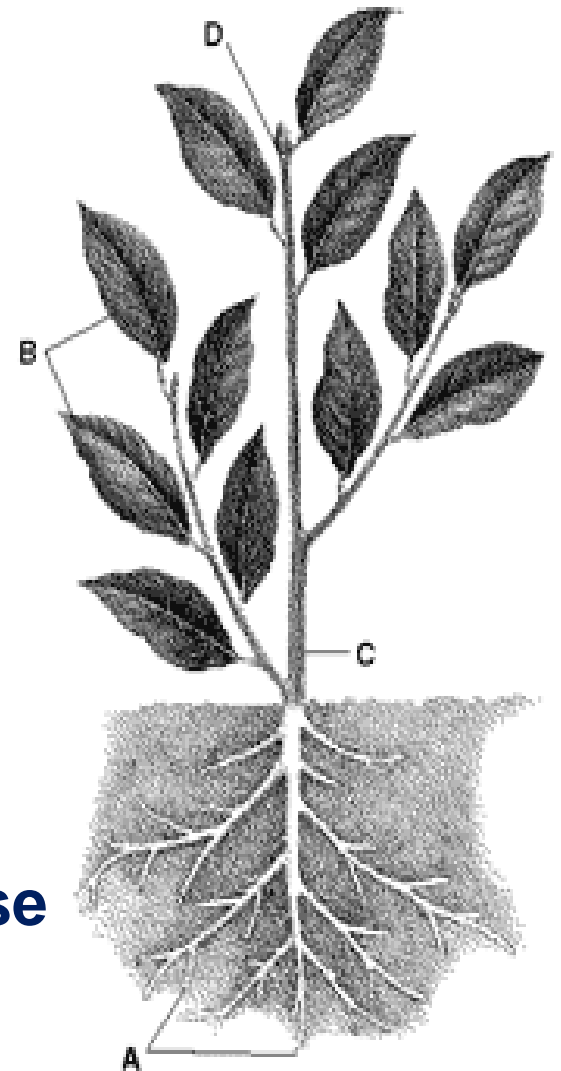
. If it is towards gravity it is called positive geotropism. Eg:- Downward growth of roots

If it is away from gravity it is called negative geotropism. Eg:- Upward growth of shoot.

Hydrotropism

It is the movement of plants in response to water.

Eg :- Growth of roots towards water.



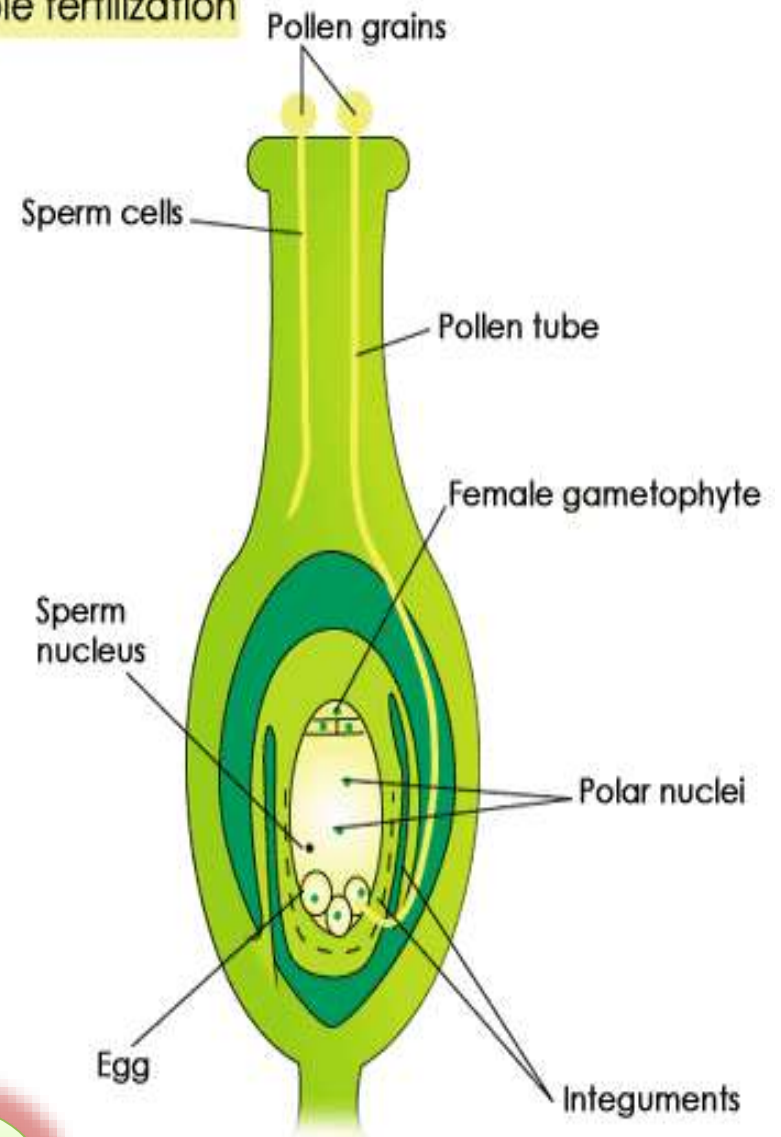
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Chemotropism

It is movement of plant in response to chemical stimuli.

Eg:- Growth of pollen tube towards the ovule.

Double fertilization



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Thigmotropism

Thigmotropism is the directional movement, shown by parts of plants in response to touch or physical contact with other object.

It is shown by tendrils of plants.



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Nastic movements

These are non directional movements and unaffected by direction of stimulus.

Eg :- If we touch the leaves of “Touch me not plant”, its leaves fold up and droops down immediately due to the change in the amount of water in the leaves. Depending upon the amount of water in the leaves, it swells or shrinks.

