



TROPISM



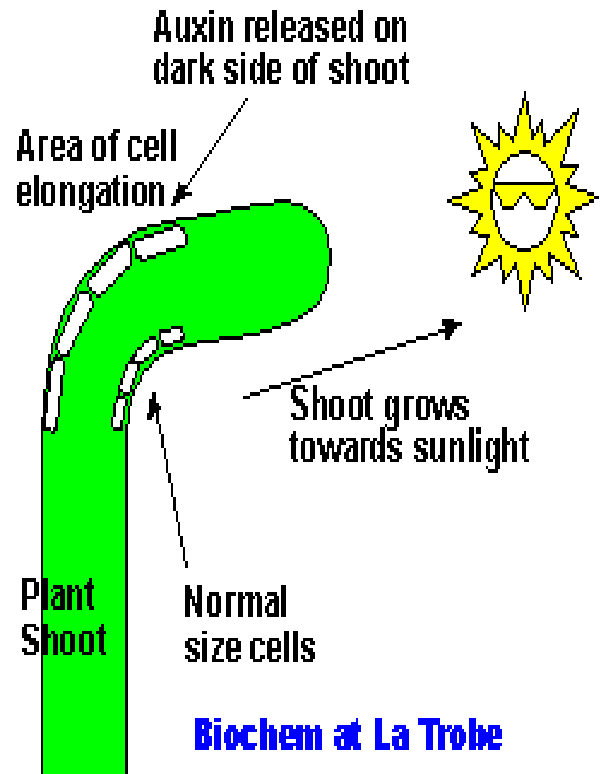
TROPISM

- ▶ Change in the growth pattern or movement of a plant in response to an external stimulus
- ▶ Respond to environmental stimuli by changing their growth patterns
- ▶ Positive tropism: movement or growth towards a stimulus
- ▶ Negative tropism: movement or growth away from a stimulus



PHOTOTROPISM

- ▶ Change in the growth pattern or movement of a plant in response to light
- ▶ Occurs when plants grow in an area with uneven lighting
- ▶ Cells on high light side do not elongate as much as cells on the low light side causing the plant to curve towards the light
- ▶ More light means more photosynthesis
- ▶ Also helps young plants grow towards openings in forest canopies



GRAVITROPISM (GEOTROPISM)

- ▶ Change in the growth pattern or movement of a plant in response to gravity
- ▶ Plants detect and respond to gravity to ensure that roots stay below ground and shoots stay above ground

