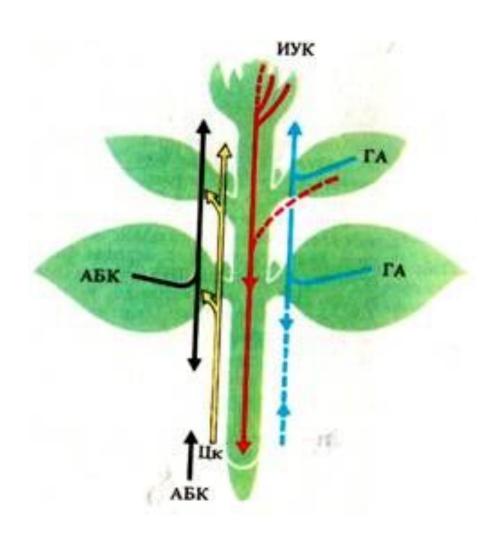


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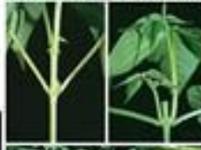


Plant Hormones (Growth Regulators)

- Auxin
- Cytokinins
- Gibberellins
- Abscisic acid
- Ethylene
- and more...





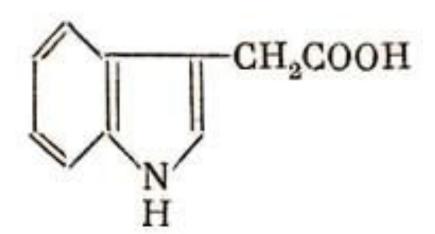


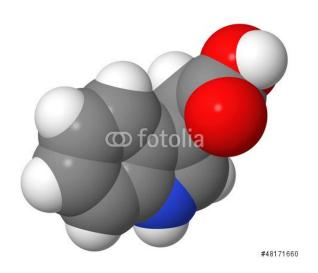


AP Biology

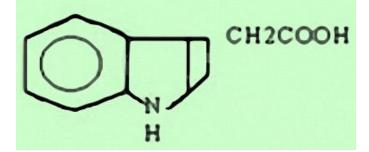
$$\begin{array}{c} OH \\ OH \\ OH \\ OH \\ \end{array}$$

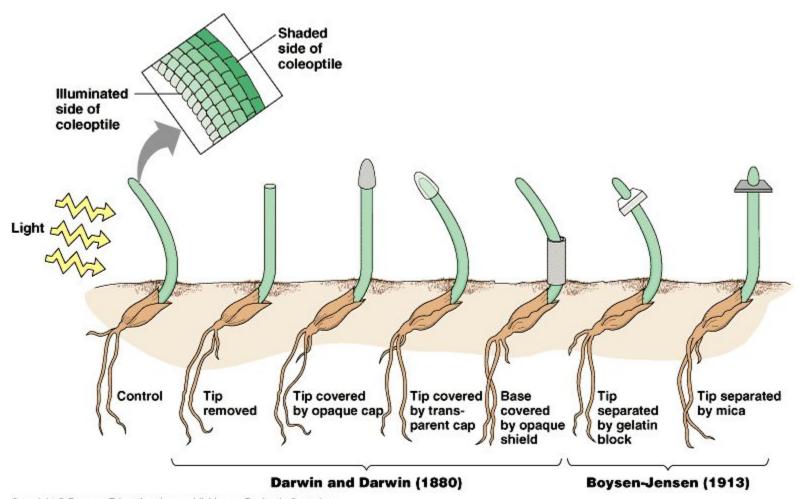
Brassinosteroids Gibberellins Abscisic Acid



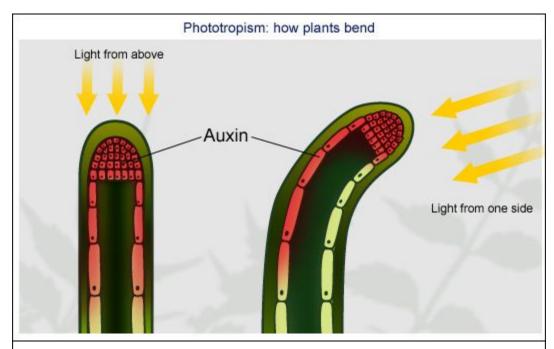


The Auxin: LAA

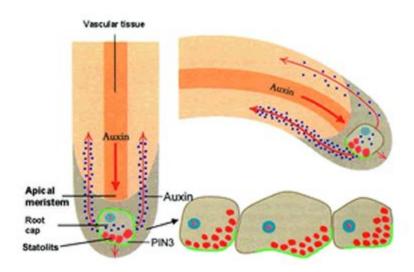


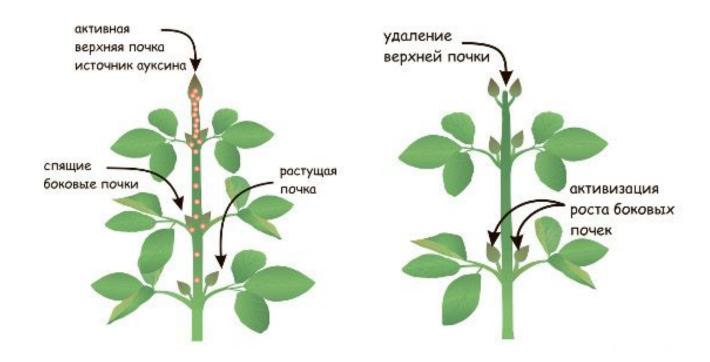


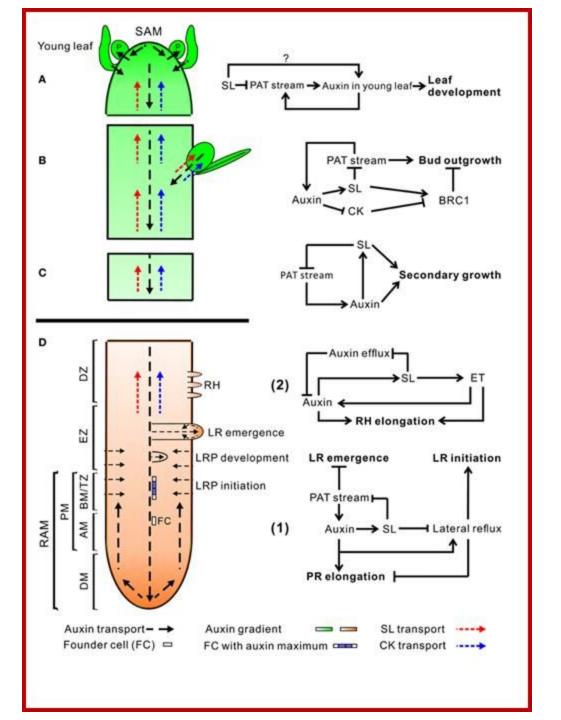
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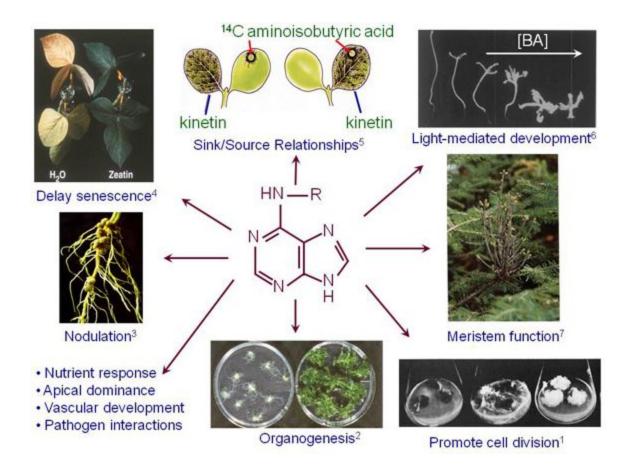


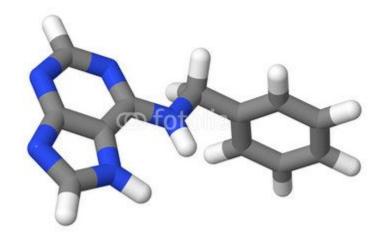
The plant hormone auxin causes plant cells to elongate. When a shoot is directly under light, auxin produced in the growing tip spreads equally down both sides of the plant. If light is from one side only, auxin collects on the shady side causing the cells on that side to elongate. That lopsided elongation produces a bend in the plant stem.

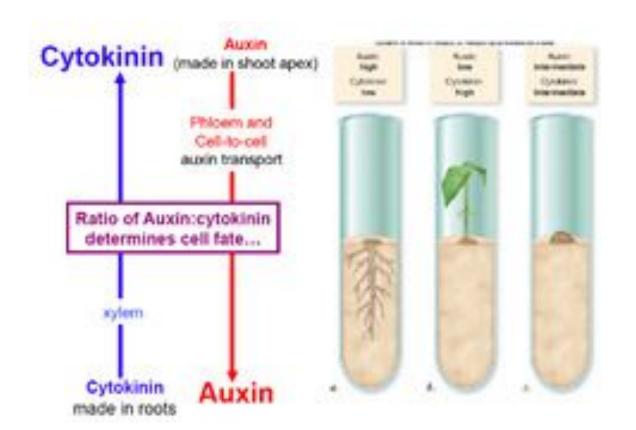








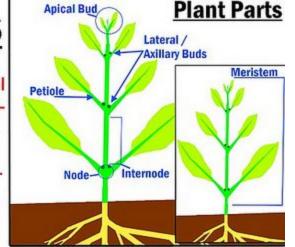


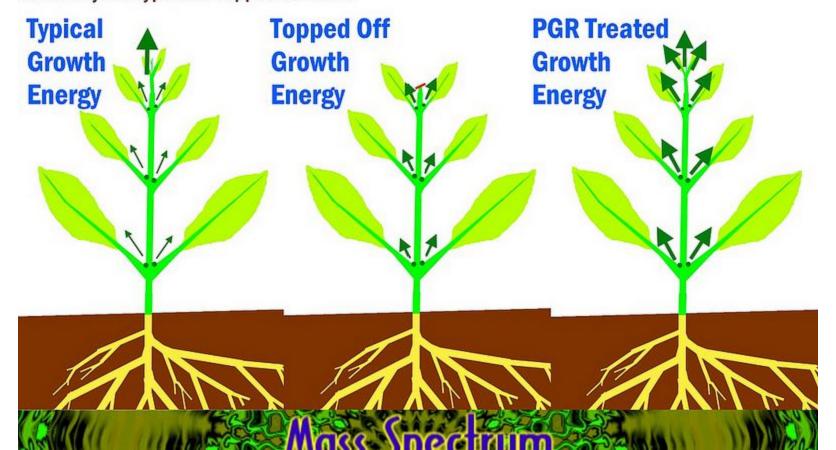


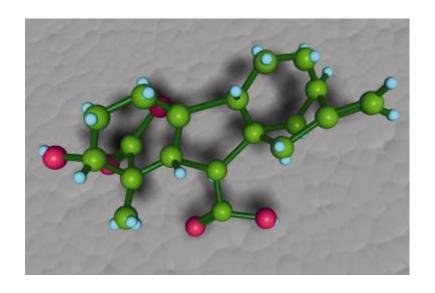
Cytokinin Hormone Effects

To compete in nature plants tend to be programmed to grow straight upwards during initial growth. "Topping Off" the apical bud forces the axillary buds to take off. When cut it causes initial shock to the plant, and it responds by producing cytokinin class hormones as they're what drive axillary bud growth. The shock effect also tends stunt growth for a week or more in virtually all plants.

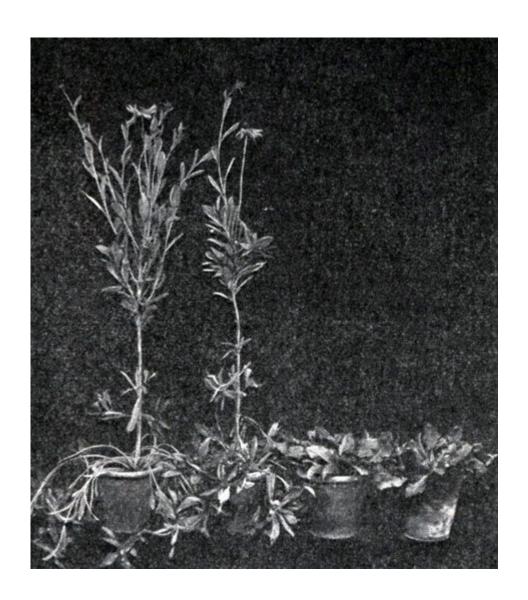
Treating with cytokinins skips the shock effect, allows you to keep the main apical bud while giving an extra growth rate boost beyond typical or topped off rates.





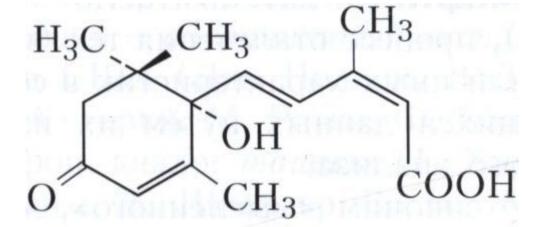


$$H_3C$$
 CH_2COOH
 H_3C
 $CH_2OPOPOH$
 H_3C
 CH_3
 H_3C









Абсцизовая кислота

