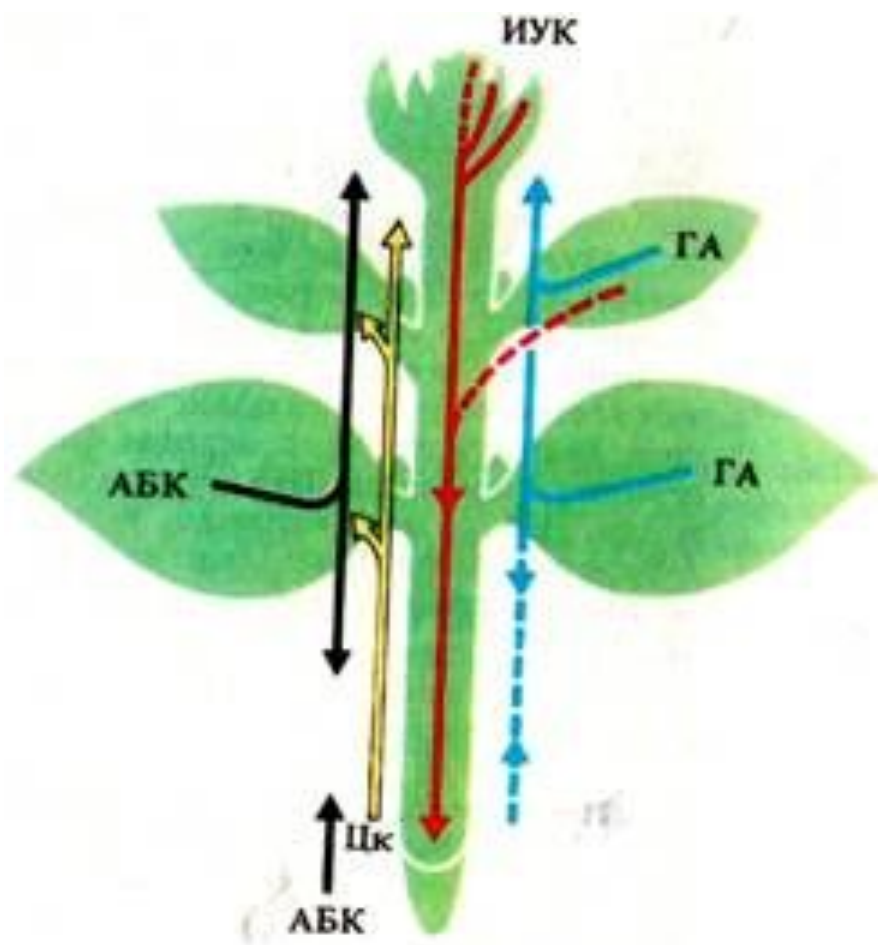


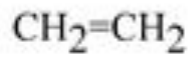
ИУК - ауксины
 ГА - гиббереллины
 ЦТК - цитокинины
 АБК - абсцизовая
 кислота



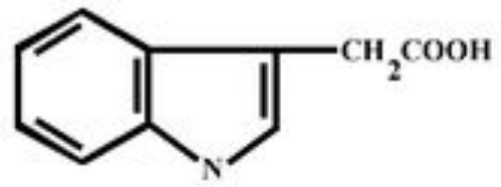
Plant Hormones (Growth Regulators)

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

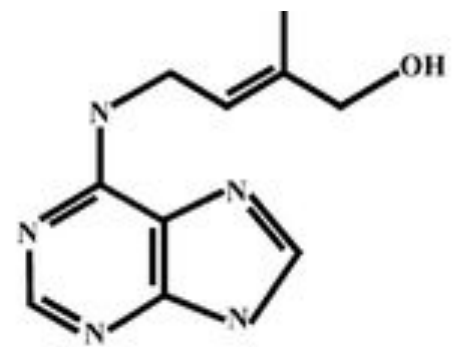




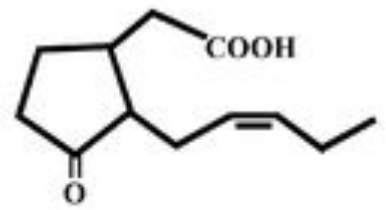
Ethylene



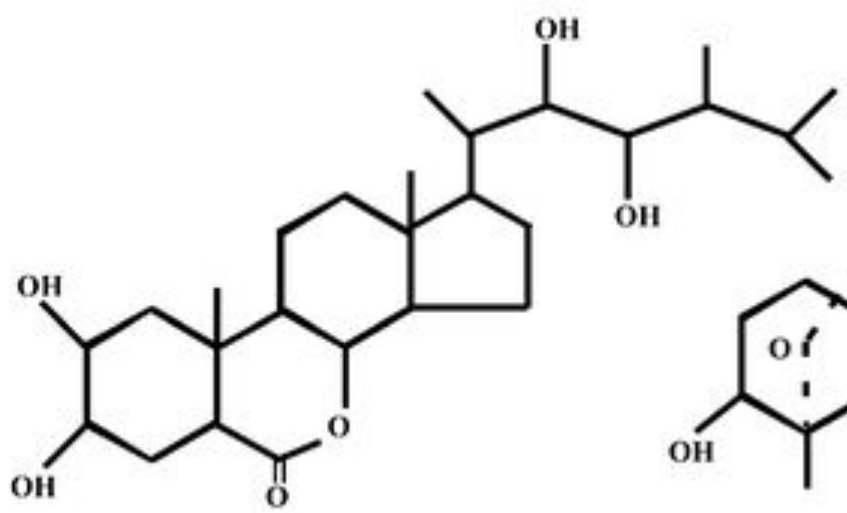
Auxin



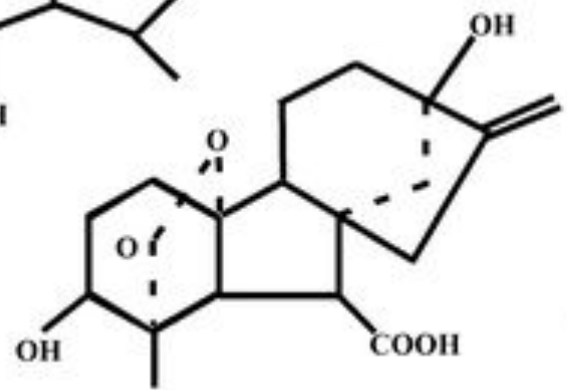
Cytokinins



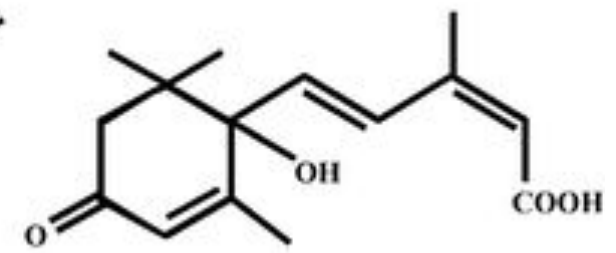
Jasmonic Acid



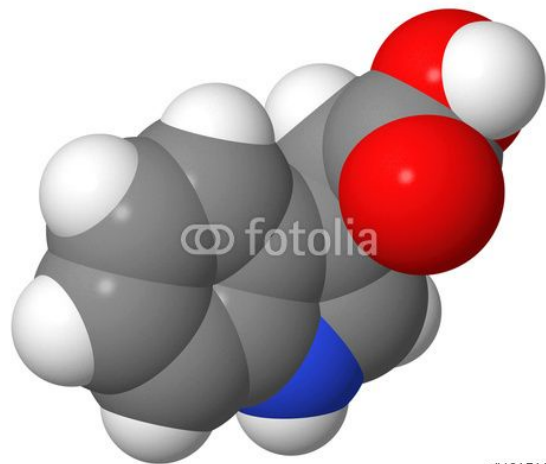
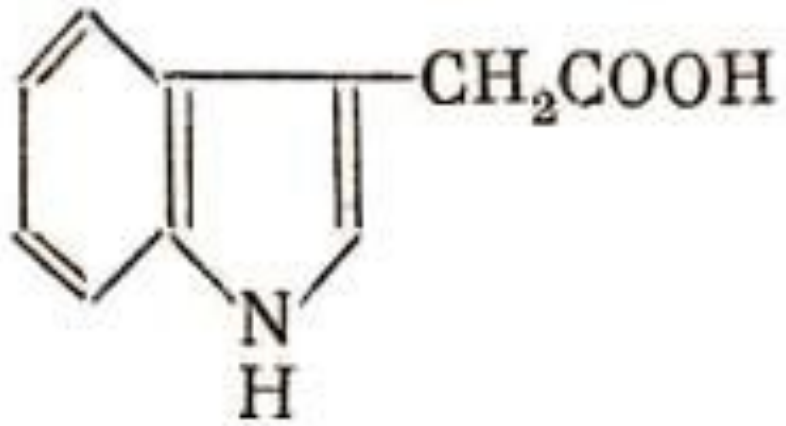
Brassinosteroids



Gibberellins

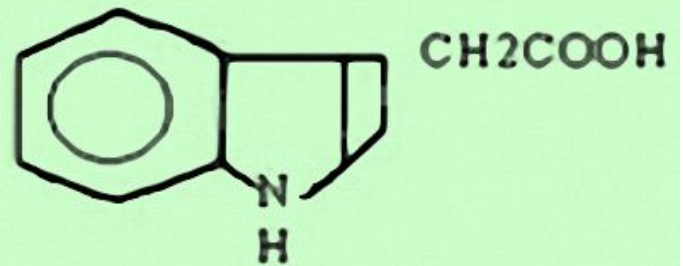


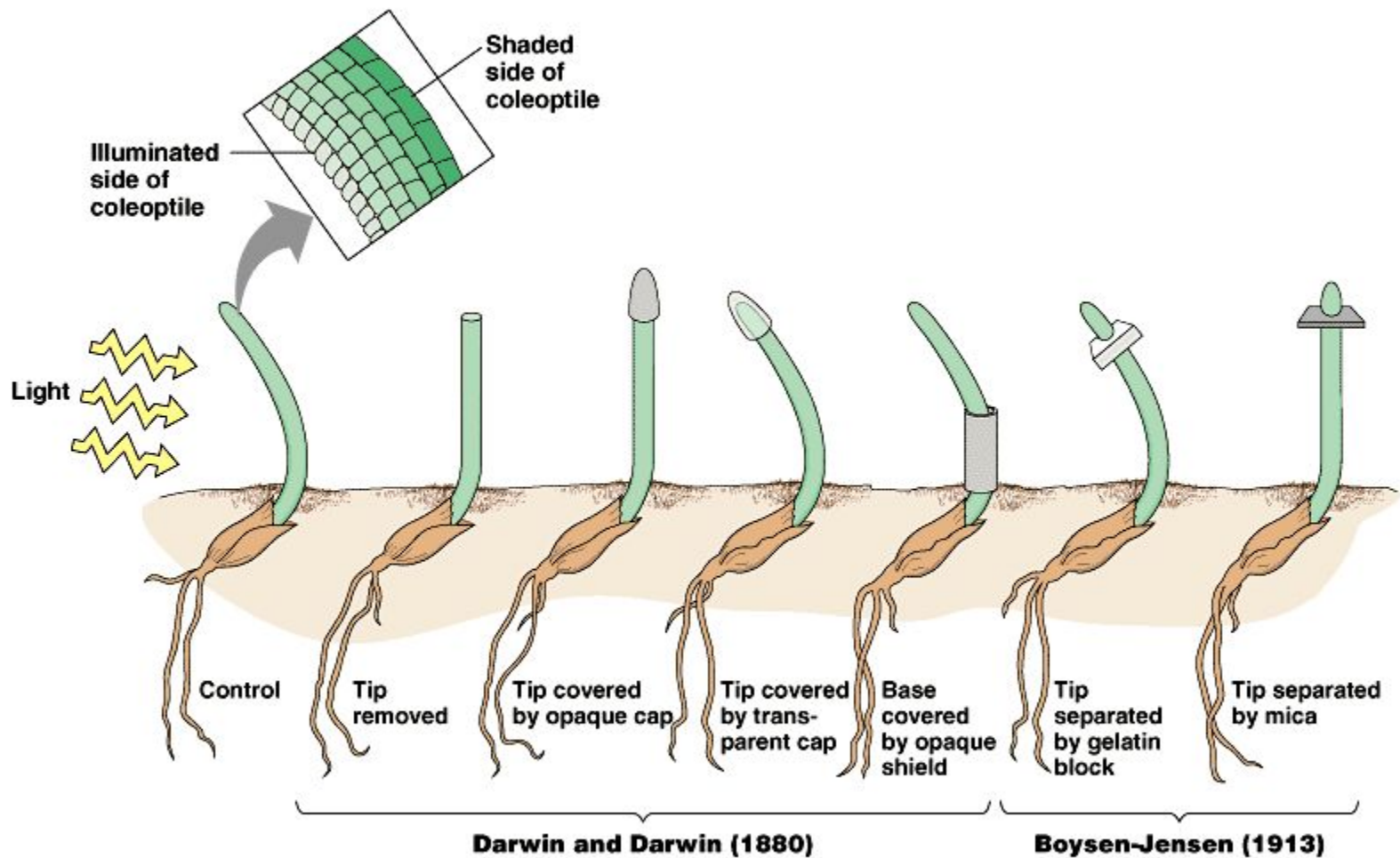
Abscisic Acid



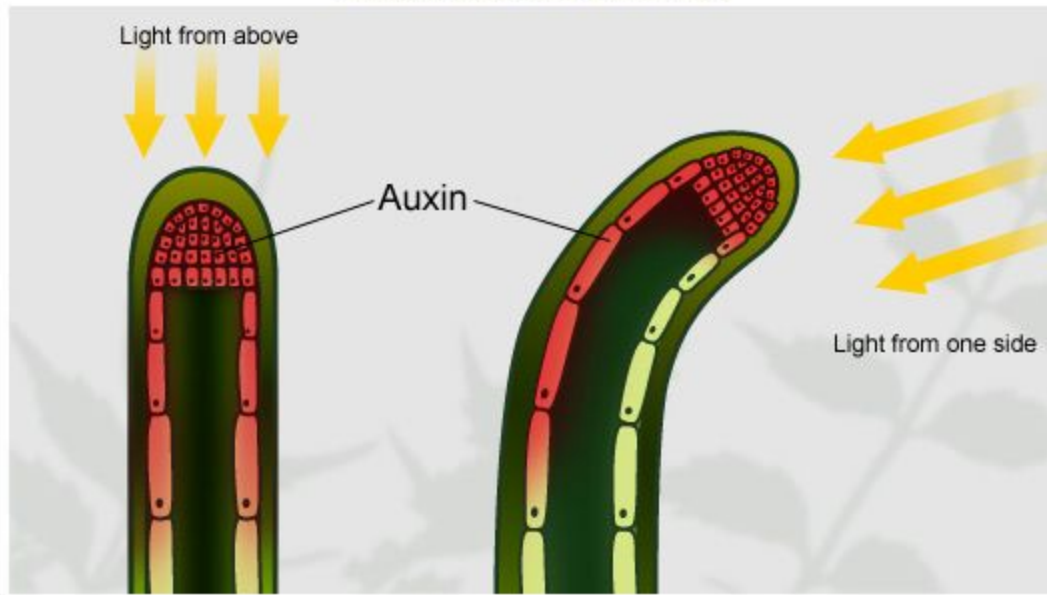
#48171660

The Auxin : IAA

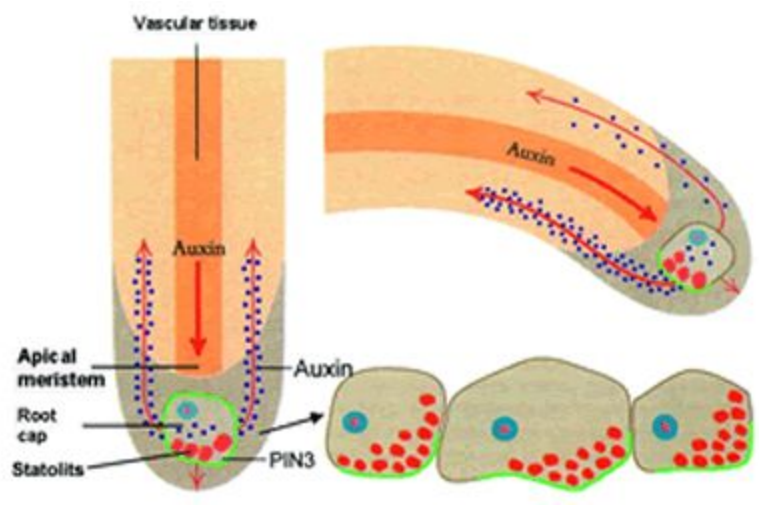


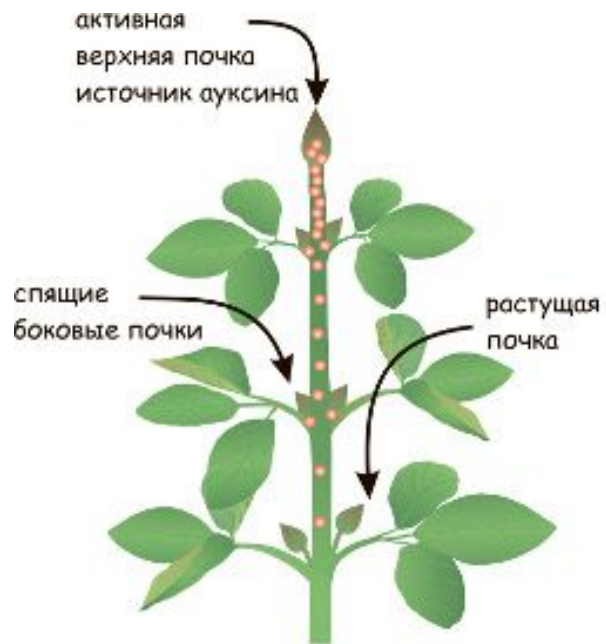


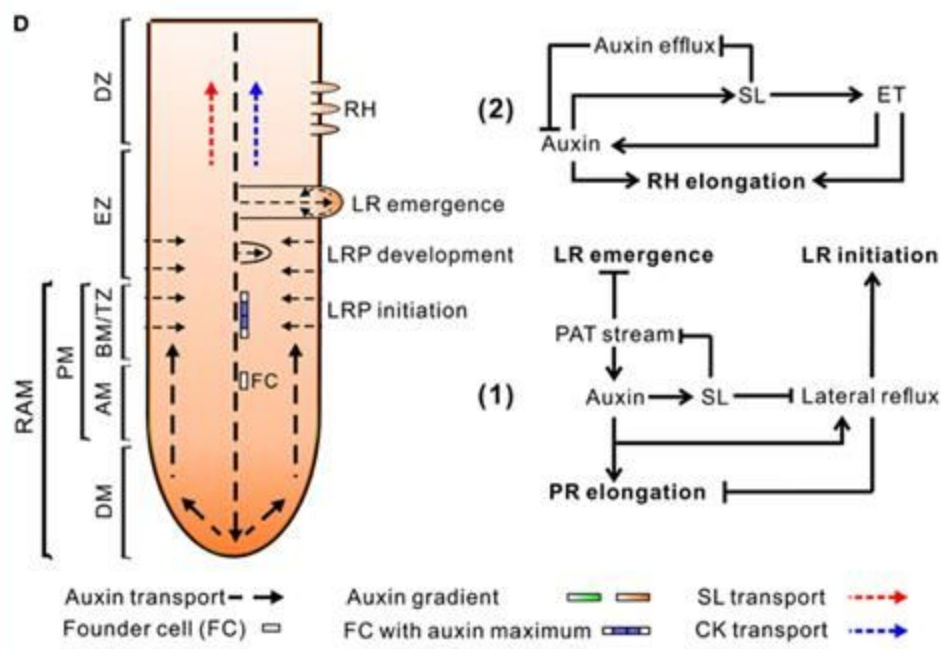
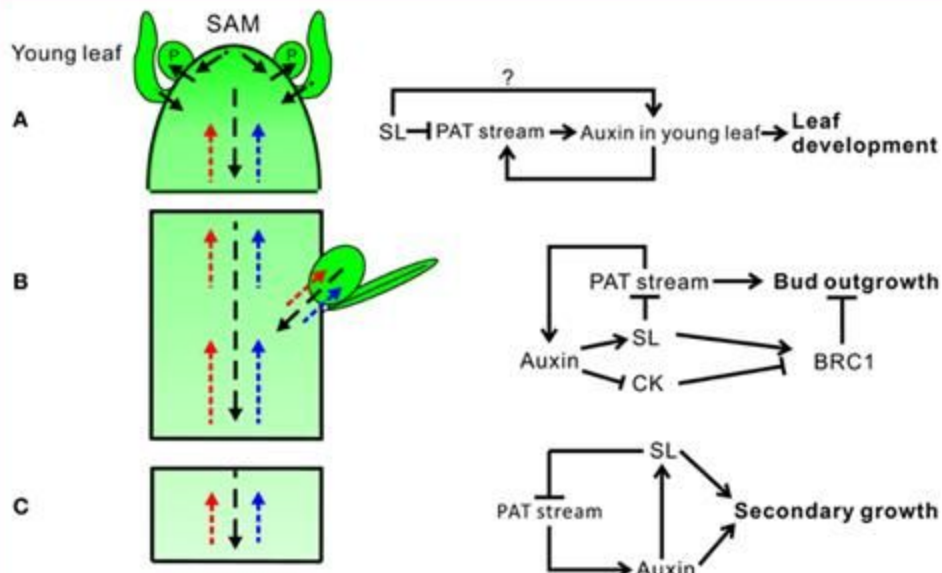
Phototropism: how plants bend



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.







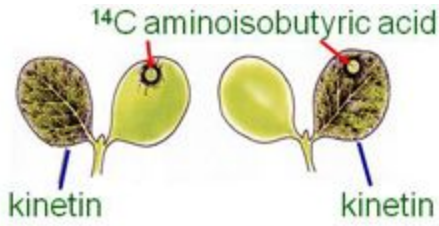


Delay senescence⁴

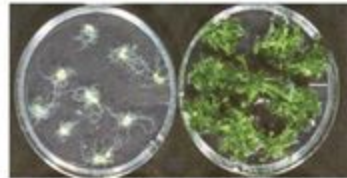
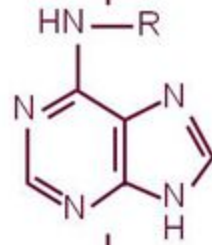


Nodulation³

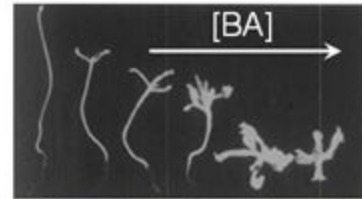
- Nutrient response
- Apical dominance
- Vascular development
- Pathogen interactions



Sink/Source Relationships⁵



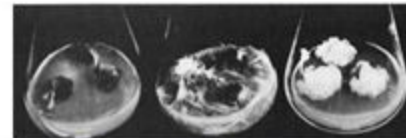
Organogenesis²



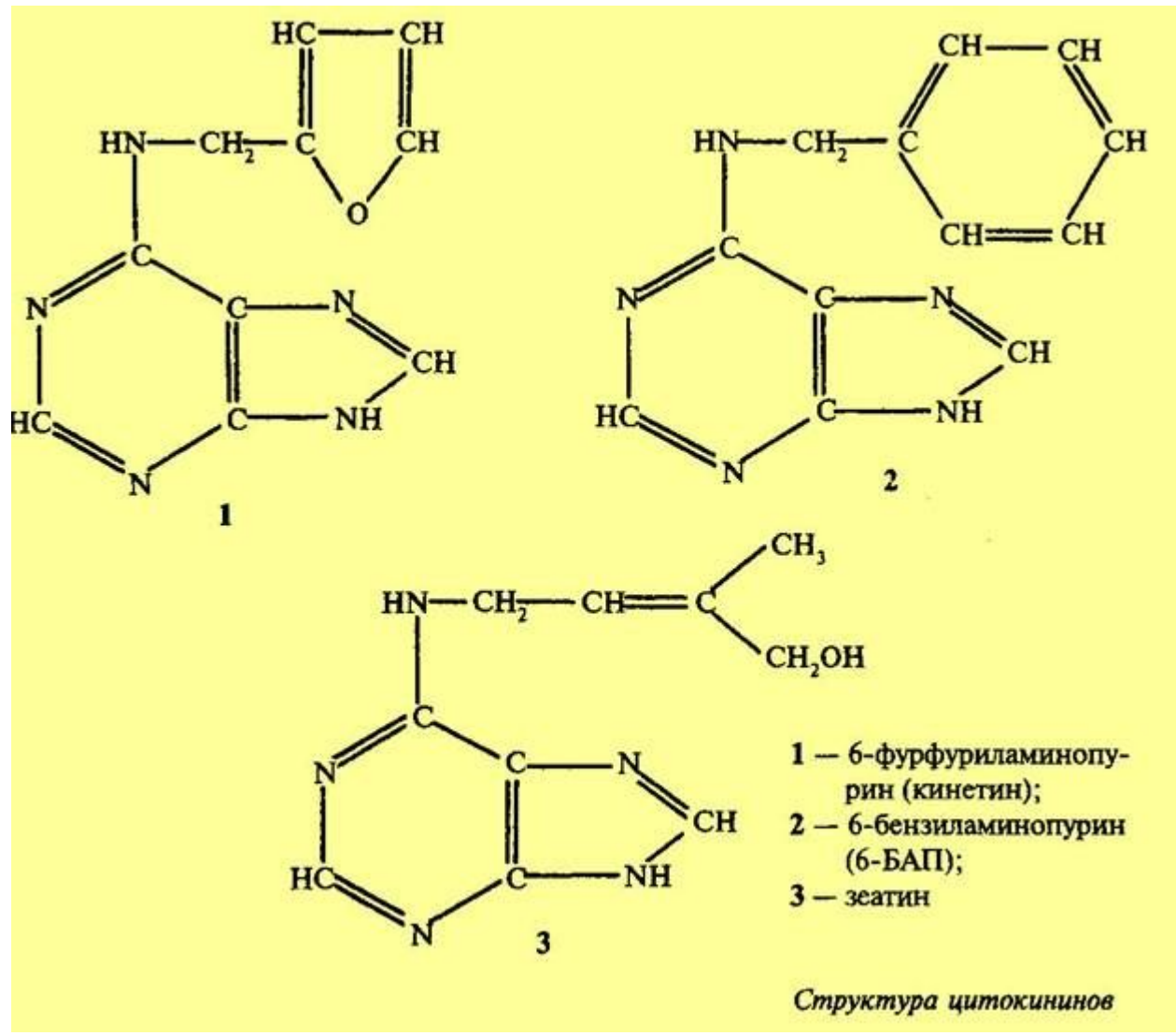
Light-mediated development⁶

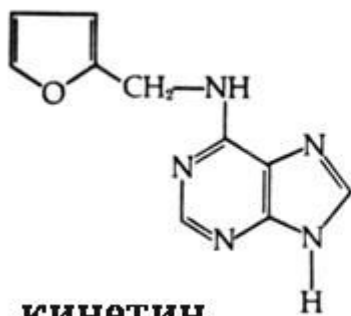


Meristem function⁷

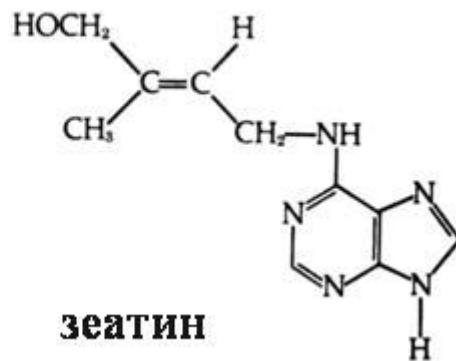


Promote cell division¹

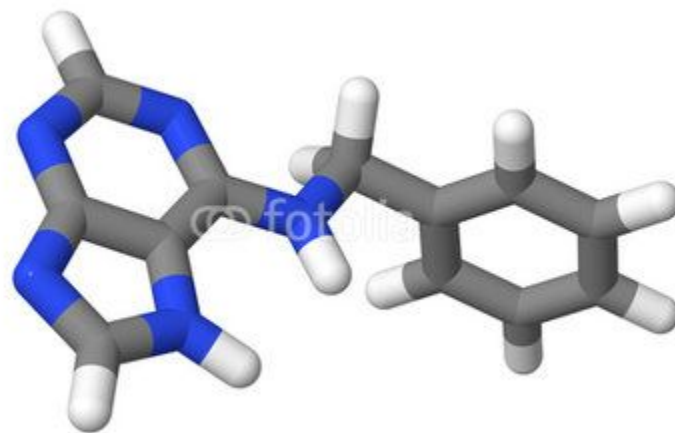


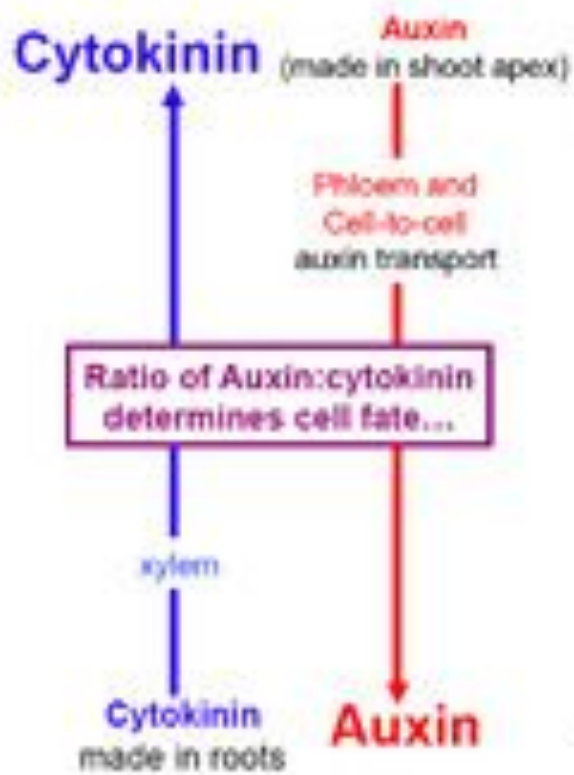


КИНЕТИН



ЗЕАТИН

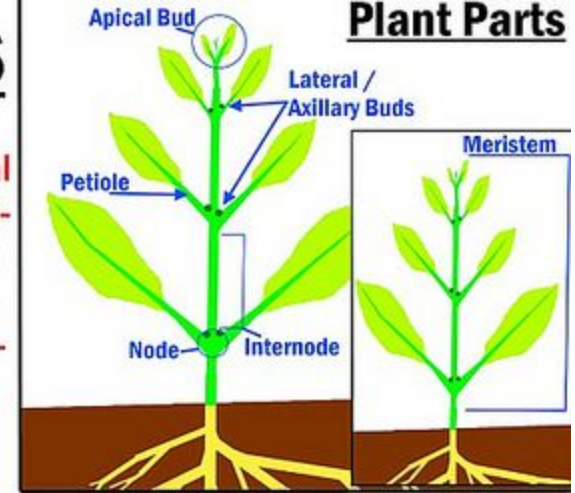




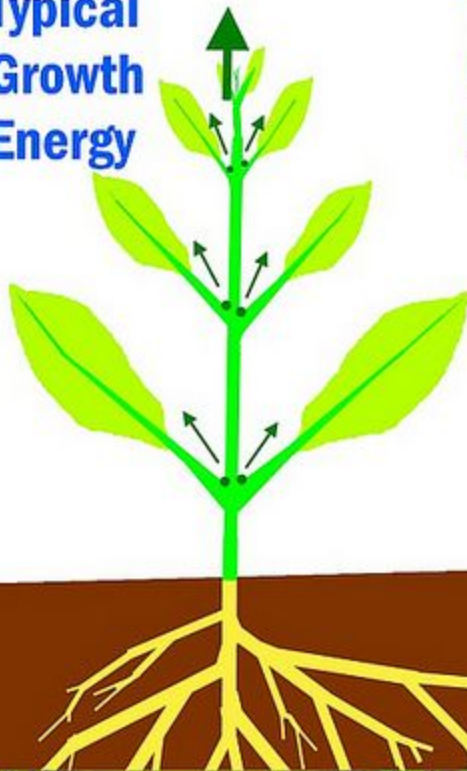
Cytokinin Hormone Effects

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 to stunt growth for a week or more in virtually all plants.

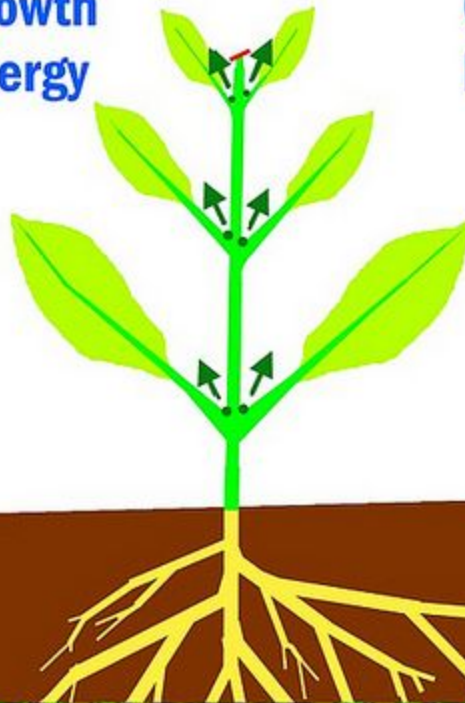
Treating with cytokinins skips the shock effect, allows you to keep the main apical bud while giving an extra growth rate boost beyond typical or topped off rates.



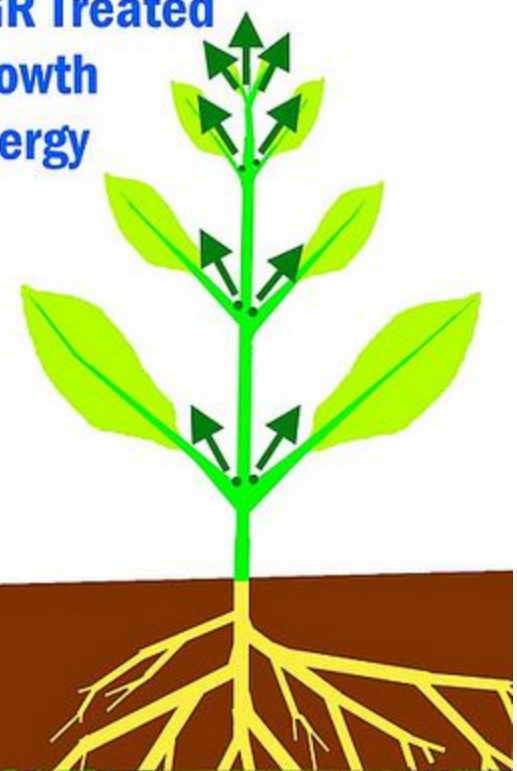
Typical Growth Energy



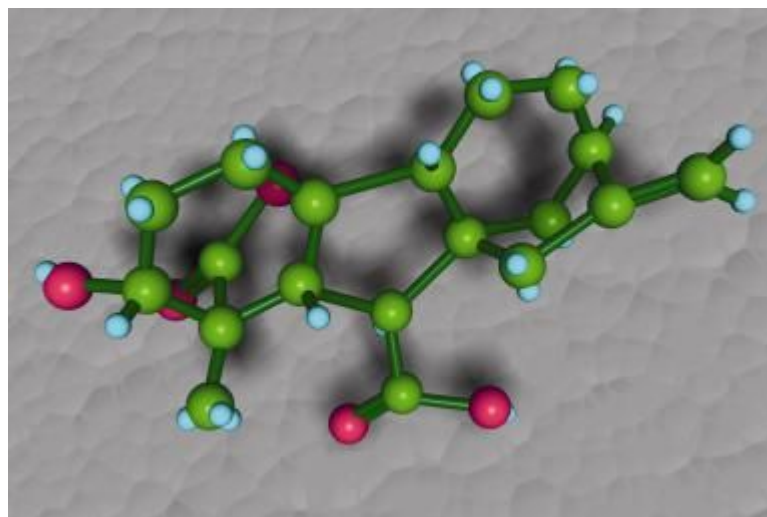
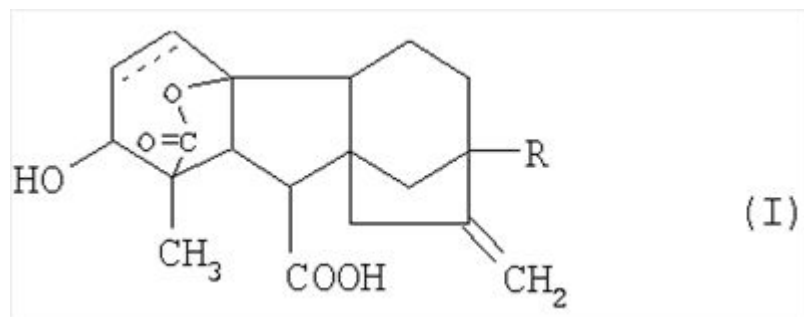
Topped Off Growth Energy

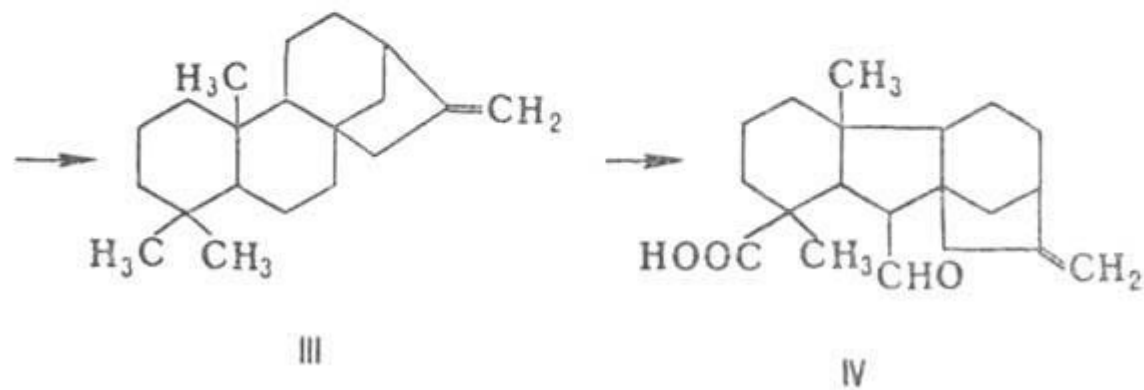
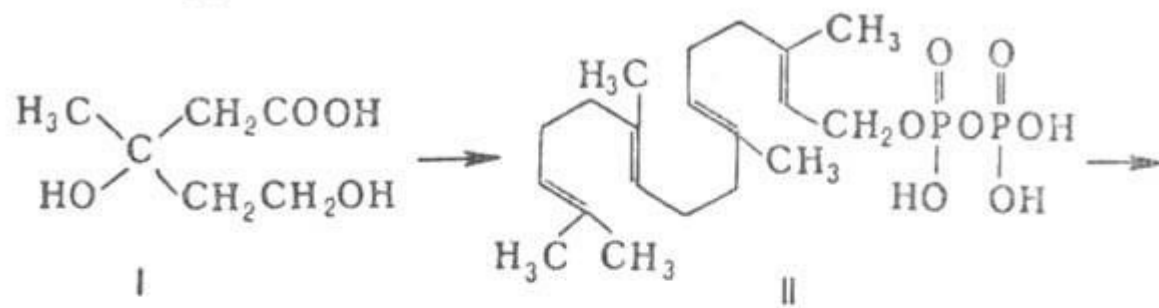


PGR Treated Growth Energy



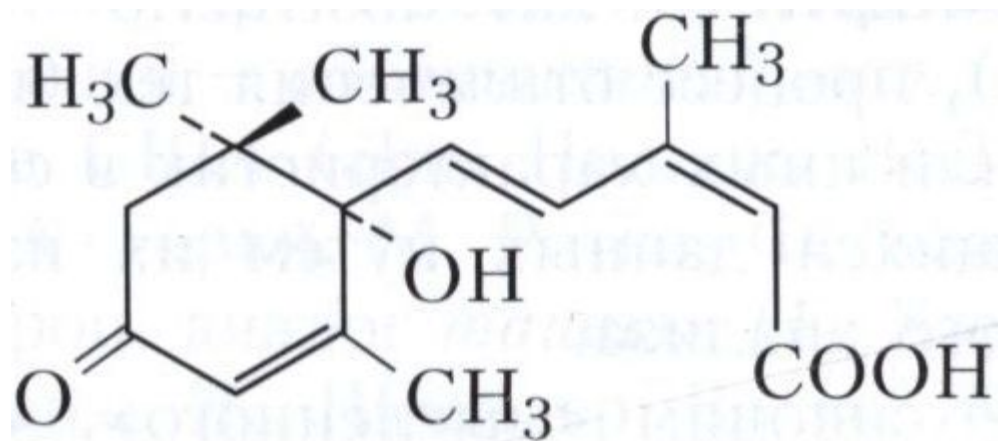
Mass Spectrum











Абсцизовая кислота



