

Plant Hormones Chart

Hormone	Functions/Details
Auxins	- Found in leaves, developing shoots and seeds - Promotes cell elongation - Promotes cell expansion in response to light and gravity - Common auxin include indoleacetic acid, which is produced in the apical meristem, leaves, flower buds and other places where tissues multiply - Apical dominance is caused by the auxins produced by the apical meristem. It causes the plant to grow vertically with little to no lateral/side growth. - The removal of apical meristems reduces the number of auxins, thus resulting in side growth. - Low concentrations of auxins stimulate plant growth; high concentrations of auxins inhibit growth - The effect of auxins depends on the concentration and location
Cytokinins	- Responsible for cell division and differentiation - Cytokinins stimulate the production of proteins that trigger mitosis and cytokinesis - Found in the root tips - Functions include - Cell division and elongation - Prevents the aging of leaves and fruits - The presence of other plant hormones can affect the effect of cytokinins. For example, IAA combined with cytokinins caused rapid cell division, which leads to rapid growth
Gibberellins	- Responsible for germination and cell elongation - Gibberellins can be applied to young plants, which increases stem length and the size of the fruit - Gibberellins increase the cluster size of grapes - Gibberellins stimulate plant growth by - Changing the plant's cell walls - Stopping seed dormancy - Reversing generic dwarfism - Are transported in the vascular tissue - Created in the apical meristem - Gibberellins increase as the temperature gets warmer and closer to ideal growing conditions
Ethylene	- Only gaseous hormone - Promotes the ripening of fruit by weakening the cell walls and converting complex carbohydrates (ex. starch) into simple carbohydrates (ex. the monosaccharides glucose and fructose) - Found all over the plant, especially in areas undergoing stress, aging and ripening - Can diffuse between the spaces of cells - Can be transported in the phloem
Abscissic Acid	- Synthesized in mature green leaves, fruits, and root caps - Functions include: - Inducing and prolonging seed dormancy - Impeding shoot growth - Preventing the impact of stimulatory hormones - When water is available, ABA levels drop, ending seed dormancy and starting germination

Plant Hormones Study Guide Answers Section 31

Arturo Cuomo



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