

Plant Hormones Chart

| Hormone | Functions/Details |
|----------------|---|
| Auxins | <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Responsible for cell division and differentiation <ul style="list-style-type: none"> Cytokinins stimulate the production of proteins that trigger mitosis and cytokinesis Found in the root tips Functions include <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> 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 | <ul style="list-style-type: none"> Synthesized in mature green leaves, fruits, and root caps Functions include: <ul style="list-style-type: none"> 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

Arshad Iqbal



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