

24.3 Plant Hormones & Responses

Plant Hormones

Most structural responses from either the growth, activity, and development

Plant Hormone	Function
Gibberellins	stimulate stem elongation and seed germination (e.g. break dormancy)
IAA	stimulate cell division and cell elongation
Cytokinins	stimulate cell division
Abscission acids	stimulate leaf abscission and senescence
Ethylene	stimulate ripening of fruit and leaf abscission

Plant Responses

There are 3 types of responses: 1) Tropism, 2) Thigmomorphogenesis, 3) Nastic movements

1) **Tropism** are growth responses to environmental stimulus



- a) **Geotropism** is a response to light. b) Stems grow towards light.
- a) **Hydrotropism** is a response to gravity. b) Roots grow downwards.
- a) **Thigmotropism** is a response to touch. b) Stem twines, grow around other plants.

Phototropism: bending of leaves toward sunlight. 1) **Thigmomorphogenesis**: response to touch.



Photoperiodism: flowering pattern which some plants respond to day length and darkness (e.g. flowering time).

Photoperiodism (the duration length of day light and darkness time for plants)

Plant Hormones And Responses Answers

Michal Rosen-Zvi



Plant Hormones And Responses Answers:

Plant Hormones And Responses Answers Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Plant Hormones And Responses Answers**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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