

PLANT TROPISMS

WebQuest



Name: _____



Directions: Use the link to complete the WebQuest.

<https://www.thoughtco.com/plant-tropisms-4130943/>

Plants, like animals and other organisms, must _____ to their constantly changing _____ . While animals are able to _____ from one place to another when environmental conditions become unfavorable, plants are _____ to do the same. Being _____ (unable to move), plants must find other ways of handling unfavorable environmental conditions. Plant _____ and mechanisms by which plants adapt to environmental changes. A tropism is a growth toward or away from a stimulus. Common stimuli that influence plant growth include light, _____, water, and _____. Plant tropisms differ from other stimulus-generated movements, such as nastic movements, in that the direction of the response depends on the _____ of the stimulus. Nastic movements, such as leaf _____, in carnation and plants, are initiated by a _____, but the direction of the stimulus is not a _____ in the response.

Plant tropisms are the result of _____ growth. This type of growth occurs when the _____ in one area of a plant organ, such as a stem or root, grow more _____ than the cells in the opposite area. The differential growth of the cells directs the growth of the organ (stem, root, etc.) and determines the _____ growth of the entire plant. Plant _____, like auxins, are thought to help _____ the differential growth of a plant organ, causing the plant to curve or bend in response to a stimulus. _____ in the direction of a stimulus is known as _____ tropism, while growth away from a stimulus is known as a _____ tropism. Common tropic responses in plants include _____, growth toward _____, hydrotropism, _____, and chemotropism.

Phototropism

Phototropism is the directional growth of an organism in response to _____. Growth _____ light, or _____ tropism is demonstrated in many vascular plants, such as angiosperms, _____, and ferns. Stems in these plants exhibit positive _____ and grow in the direction of a light source. Photoreceptors in plant cells detect _____ and plant hormones, such as auxins, are _____ to the side of the stem that is farthest from the light. The accumulation of auxins on the shaded side of the stem causes the cells in this area to _____ at a greater rate than those on the _____ side of the stem. As a result, the stem _____ in the direction away from the side of the accumulated auxins and toward the _____ of the light. Plant _____

Plant Hormones And Tropisms Webquest Answers

Lam-Son Tran, Sikander Pal



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Tropisms & Plant Hormones, 2006 The Action of Hormones in plants and invertebrates Kenneth

Thimann, 2012-12-02 The Action of Hormones in Plants and Invertebrates focuses on the mechanisms of action of hormones in plants and invertebrates including auxins vitamins steroids and carotenoids The book considers plant growth hormones hormone like substances in fungi and hormones in insects and crustaceans This volume is organized into four chapters and begins with a historical overview of the concept of hormones in plants and then describes assay methods for auxins along with auxin chemistry transport and role in tropisms The discussion moves to other plant hormones such as wound hormones flower forming hormones vitamins steroids carotenoids rhizocaline and caulocaline The book then methodically explains insect hormones and their sources the role of hormones in reproduction and postembryonic development and hormone induced color change in insects This volume also offers information on the mode of action and physicochemical properties of insect hormones The book concludes with a chapter on the biological effects of hormones on Crustacea from sex characteristics to color change molting and growth retinal pigment movements locomotion and ovarian development This book will be of interest to biologists zoologists botanists and endocrinologists *Phytohormones: A Window to Metabolism, Signaling and Biotechnological Applications* Lam-Son Tran, Sikander Pal, 2014-04-01 Abiotic and biotic stresses adversely affect plant growth and productivity The phytohormones regulate key physiological events under normal and stressful conditions for plant development Accumulative research efforts have discovered important roles of phytohormones and their interactions in regulation of plant adaptation to numerous stressors Intensive molecular studies have elucidated various plant hormonal pathways each of which consist of many signaling components that link a specific hormone perception to the regulation of downstream genes Signal transduction pathways of auxin abscisic acid cytokinins gibberellins and ethylene have been thoroughly investigated More recently emerging signaling pathways of brassinosteroids jasmonates salicylic acid and strigolactones offer an exciting gateway for understanding their multiple roles in plant physiological processes At the molecular level phytohormonal crosstalks can be antagonistic or synergistic or additive in actions Additionally the signal transduction components of one hormonal pathway may interplay with the signaling components of other hormonal pathways Together these and other research findings have revolutionized the concept of phytohormonal studies in plants Importantly genetic engineering now enables plant biologists to manipulate the signaling pathways of plant hormones for development of crop varieties with improved yield and stress tolerance This book written by internationally recognized scholars from various countries represents the state of the art understanding of plant hormones biology signal transduction and implications Aimed at a wide range of readers including researchers students teachers and many others who have interests in this flourishing research field every section is concluded with biotechnological strategies to modulate hormone contents or signal transduction pathways and crosstalk that enable us to develop crops in a sustainable manner Given the important

physiological implications of plant hormones in stressful environments our book is finalized with chapters on phytohormonal crosstalks under abiotic and biotic stresses

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