#### REVIEW

#### Phototropism: Growing towards an Understanding of Plant Movement

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Phototropism, or the differential cell elongation exhibited by a plant organ in response to directional blue light, provides the plant with a means to optimize photosynthetic light capture in the serial portion and water and netrient acquisition in the roots. Tremendous advances have been made in our understanding of the motecular, biochemical, and cellular bases of phototropism in recent years. Six photoreceptors and their associated signaling pathways have been linked to phototropic responses under various conditions. Primary detection of directional light occurs at the plasma membrane, whereas secondary modulatory photoreception occurs in the cytoplasm and nucleus. Intracellular responses to light oues are processed to regulate cell-to-cell movement of auxin to allow establishment of a trans-organ gradient of the hormone. Photosignaling also impinges on the transcriptional regulation response established as a result of changes in local auxin concentrations. Three additional phytohormone signaling pathways have also been shown to influence phototropic responsiveness, and these pathways are influenced by the photoreceptor signaling as well. Here, we will discuss this complex dance of inter- and intercellular responses that are regulated by these many systems to give rise to a rapid and robust adaptation response observed as organ bending.

#### INTRODUCTION

Plants have evolved a variety of responses to maintain optimal growth and development under ever changing environmental conditions. Photoreceptors and their associated signaling pathways are one way plants cope with changes in their environment, integrating signals of light quality and quantity, to adaptively modify overall growth characteristics from seed germination to reproduction (Kamil et al., 2010; Pedimale et al., 2010; Chen and Chory, 2011). Although many photoreceptors, signaling pathways, and processes they regulate have been identified, this review will focus specifically on the components associated with the induction, modulation, and establishment of phototropic responses in higher plants.

Phototropic responses, or a plant's ability to recrient organ growth toward (positive phototropism) or away (negative phototropism) from a directional light source, has fascinated researchers for well over a century (Holland et al., 2009). Among the historical references to plant phototropism, Darwin's The Power of Movement of Plants (1880) is arguably the most well known. Therein, Darwin describes a mysterious substance that is transcluced from the tip of the seedling, where the light signal response can be observed in the form of directional growth changes (Darwin, 1880). It was not until the 1920s that a significant breakthrough occurred when Frits Went (Went, 1920s), working on phototropism in the cat (Avens sativa) coleoptile, isolated and identified Darwin's mysterious substance as the plant hormone auxin. Together with work by Nicolai

Cholodny (Cholodny, 1927) on out root gravitropism (bending response to change in the direction of the gravity vector), these findings formed the basis for the Cholodov-Went hypothesis. (Went and Thimann, 1937), which proposes that tropisms result from the lateral redistribution of auxin in response to tropic stimuli. In the case of coleoptile (and stem) phototropism, auxin is redistributed from the lit flank (side closest to the incident light) to the shaded flank (side farthest from the light source) leading to differential auxin-stimulated cell elongation in the shaded versus. lit portion of the organ and, thus, curvature toward the light source (Went and Thimann, 1937; Esmon et al., 2006; Holland et al., 2009) (Figure 1). Yet, despite over 100 years of intensive study, the photoreceptorisi responsible for sensing directional light remained elusive until the 1990s when work in Winslow Briggs" laboratory at the Camegie Institution of Washington (Stanford, CA) lead to the identification of the phototropins (Short and Briggs, 1990; Reymond et al., 1992; Liscum and Briggs, 1995; Huala et al., 1997; Christie et al., 1998). Much like the work of Cholodny and Went, the findings of Briggs and colleagues represented a seminal step in our understanding of plant biology. In the following section, we will review our current understanding of phototropin structure and function in phototropic signaling.

#### PHOTOTROPINS

#### Primary Photoreceptors Modulating Blue Light-Induced Phototropism and Other Responses That Optimize Photosynthetic Capacity

In higher plants, there are two phototropins (phots): phot1 and phot2 (Huala et al., 1997; Jarillo et al., 2001; Suetsugu and Wada,

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# **Table of Contents Phototropism Expriement 2014 Memo**

- 1. Understanding the eBook Phototropism Expriement 2014 Memo
  - The Rise of Digital Reading Phototropism Expriement 2014 Memo
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Phototropism Expriement 2014 Memo
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Phototropism Expriement 2014 Memo
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Phototropism Expriement 2014 Memo
  - Personalized Recommendations
  - Phototropism Expriement 2014 Memo User Reviews and Ratings
  - Phototropism Expriement 2014 Memo and Bestseller Lists
- 5. Accessing Phototropism Expriement 2014 Memo Free and Paid eBooks

- Phototropism Expriement 2014 Memo Public Domain eBooks
- Phototropism Expriement 2014 Memo eBook Subscription Services
- Phototropism Expriement 2014 Memo Budget-Friendly Options
- 6. Navigating Phototropism Expriement 2014 Memo eBook Formats
  - ∘ ePub, PDF, MOBI, and More
  - Phototropism Expriement 2014 Memo Compatibility with Devices
  - Phototropism Expriement 2014 Memo Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Phototropism Expriement 2014 Memo
  - Highlighting and Note-Taking Phototropism Expriement 2014 Memo
  - Interactive Elements Phototropism Expriement 2014 Memo
- 8. Staying Engaged with Phototropism Expriement 2014 Memo
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Phototropism Expriement 2014 Memo
- 9. Balancing eBooks and Physical Books Phototropism Expriement 2014 Memo
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Phototropism Expriement 2014 Memo
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Phototropism Expriement 2014 Memo
  - Setting Reading Goals Phototropism Expriement 2014 Memo
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Phototropism Expriement 2014 Memo
  - Fact-Checking eBook Content of Phototropism Expriement 2014 Memo
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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