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Titolo	Light and plant development [[electronic resource] /] / edited by Garry C. Whitelam and Karen J. Halliday
Pubbl/distr/stampa	Oxford ; ; Ames, Iowa, : Blackwell Pub., 2007
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Altri autori (Persone)	WhitelamGarry C HallidayKaren J
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Light and Plant Development; Contents; Contributors; Preface; Part I Photoreceptors; 1 Phytochromes; 1.1 Introduction; 1.2 Historical aspects; 1.3 Properties of phyA in vivo; 1.4 Properties in yeast cells; 1.5 In vivo properties of phytochromes; 1.5.1 In vivo spectroscopy; 1.6 Intracellular localisation of phytochromes; 1.6.1 Classical methods; 1.6.2 Spectroscopic methods; 1.6.3 Cell biological methods; 1.6.4 Immunocytochemical methods; 1.6.5 Novel methods; 1.7 Intracellular localisation of phyB in dark and light; 1.8 Intracellular localisation of phyA in dark and light 1.9 Intracellular localisation of phyC, phyD and phyE in dark and light1. 10 Phytochrome/PIF3 co-localisation and nuclear speckles; 1.11 Regulation of intracellular localisation of phytochromes; Acknowledgements; References; 2 Cryptochromes; 2.1 Introduction; 2.2 Cryptochrome genes and their evolution; 2.3 Cryptochrome

domains, chromophores and structure; 2.3.1 Domain structure of the cryptochromes; 2.3.2 Cryptochrome chromophores; 2.3.3 Photolyase and cryptochrome structure; 2.3.3.1 Photolyase structure and reaction mechanism; 2.3.3.2 Cryptochrome structure

2.4 Cryptochrome biochemistry and spectroscopy

2.4.1 Phosphorylation; 2.4.2 Nucleotide-binding and kinase activity; 2.4.3 DNA-binding activity; 2.4.4 Electron transfer; 2.5 Expression and biological activity of cryptochromes; 2.5.1 Expression and light regulation of cryptochromes in planta; 2.5.2 Cellular localization; 2.5.3 Growth responses controlled by cryptochromes; 2.5.4 Regulation of gene expression through cryptochromes; 2.6 Cryptochrome signalling; 2.6.1 Dimerization and output domains; 2.6.2 Cryptochrome partners; 2.6.2.1 Interaction with COP1

2.6.2.2 Interaction with zeaxanthin/ADAGIO

2.6.2.3 Interaction with phytochromes; 2.6.3 Further downstream components; 2.7 Summary; Acknowledgements; References; 3 Phototropins and other LOV-containing proteins; 3.1 Introduction; 3.2 Phototropins and their biological functions; 3.2.1 Physiological roles in higher plants; 3.2.2 Physiological roles in lower plants; 3.3 Phototropin structure, localization and activity; 3.3.1 Phototropin structure and localization; 3.3.2 Phototropin autophosphorylation; 3.4 Light sensing by the LOV domains; 3.4.1 LOV-domain photochemistry

3.4.2 LOV-domain structure

3.4.3 Functional roles of LOV1 and LOV2; 3.4.4 Light-induced protein movements; 3.5 Phototropin signaling; 3.5.1 Phototropin-interacting proteins; 3.5.2 Downstream signaling targets; 3.6 Other LOV-containing proteins; 3.6.1 LOV-containing proteins in Arabidopsis; 3.6.2 LOV-containing proteins in fungi; 3.6.3 LOV-containing proteins in bacteria; 3.7 Conclusions and future perspectives; Acknowledgements; References; Part II Photoreceptor signal transduction; 4 Phytochrome-interacting factors; 4.1 Introduction; 4.2 Methodology; 4.2.1 Initial identification of PIFs

4.2.2 Subsequent assay and characterization of the interaction

## Sommario/riassunto

Living organisms are subject to fluctuating environmental conditions. Whereas most animals are able to move away from unfavourable conditions, plants are sessile and so must cope with whatever comes their way. Of all the environmental cues that challenge the developing plant, light can probably be considered to be the most important. In addition to its key role in plant metabolism, and hence almost all life on Earth, where it drives the process of photosynthesis, light energy also acts to regulate plant growth and development. Light quantity, quality, direction and diurnal and seasonal duration

2. Record Nr.	UNINA9910130967103321
Titolo	Organic reaction mechanisms 2008 [[electronic resource] /] / edited by A. C. Knipe
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Altri autori (Persone)	KnipeA. C
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Soggetti	Organic reaction mechanisms Chemical reactions Electronic books.
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Nota di contenuto	ORGANIC REACTION MECHANISMS · 2008; CONTENTS; 1. Reactions of Aldehydes and Ketones and their Derivatives; 2. Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives; 3. Oxidation and Reduction; 4. Carbenes and Nitrenes; 5. Nucleophilic Aromatic Substitution; 6. Electrophilic Aromatic Substitution; 7. Carbocations; 8. Nucleophilic Aliphatic Substitution; 9. Carbanions and Electrophilic Aliphatic Substitution; 10. Elimination Reactions; 11. Addition Reactions: Polar Addition; 12. Addition Reactions: Cycloaddition 13. Molecular Rearrangements: Part 1. Pericyclic Molecular Rearrangements14. Molecular Rearrangements: Part 2. Other Reactions; Author Index; Subject Index
Sommario/riassunto	This volume is the 44th in this classical series. In every volume relevant reaction mechanisms are featured in chapters entitled: Reaction of

Aldehydes and Ketones and their Derivatives Reactions of Carboxylic, Phosphoric, and Sulfonic Acids and their Derivatives Oxidation and Reduction Carbenes and Nitrenes Nucleophilic Aromatic Substitution Electrophilic Aromatic Substitution Carbocations Nucleophilic Aliphatic Substitution Carbanions and Electrophilic Aliphatic Substitution Elimination Reactions <l

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