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Titolo	Cell cycle control and plant development [[electronic resource] /] / edited by Dirk Inze
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Descrizione fisica	1 online resource (394 p.)
Collana	Annual Plant Reviews ; ; v.32
Altri autori (Persone)	InzeD (Dirk)
Disciplina	571.62 571.84929 580.5
Soggetti	Plant cell cycle Cyclin-dependent kinases Plant cells and tissues - Growth - Regulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cell Cycle Control and Plant Development; Contents; Contributors; Preface; 1 The growing family of plant cyclin-dependent kinases with multiple functions in cellular and developmental regulation; 1.1 Introduction; 1.2 Structural diversity in the family of plant CDKs; 1.3 Expression profiles of CDK genes: structures and functions of promoters; 1.4 Diverse functions of CDK protein complexes in multiple regulatory mechanisms; 1.5 Developmental consequences of altered CDK functions; 1.6 Perspectives; Acknowledgments; References; 2 The plant cyclins; 2.1 Introduction 2.1.1 Cyclins and the cell cycle oscillator2.2 The plant cyclin family; 2.2.1 Phylogenetic relationships between animal and plant cyclins; 2.2.2 Cyclin domains; 2.2.3 A-type cyclins; 2.2.4 B-type cyclins; 2.2.5 D-type cyclins; 2.2.6 Other cyclins; 2.3 Expression of cyclins during the cell cycle; 2.3.1 The G1 checkpoint; 2.3.2 S phase; 2.3.3 G2-M; 2.4 Cyclins in plant development; 2.5 Concluding remarks; Acknowledgments; References; 3 CDK inhibitors; 3.1 Introduction; 3.2

Plant CDK inhibitors and sequence uniqueness; 3.3 Expression; 3.4 Interactions with cell cycle proteins and CDK inhibition
3.5 Protein stability and modifications3.6 Cellular localization; 3.7 CDK inhibitors and plant growth and development; 3.8 Cell cycle phase transitions; 3.9 Cell cycle exit and endoreduplication; 3.10 Concluding remarks; Notes added at proofing stage; Acknowledgments; References; 4 The UPS: an engine that drives the cell cycle; 4.1 The molecular machinery mediating ubiquitin-dependent proteolysis; 4.1.1 Ubiquitylation reaction; 4.1.2 Ubiquitin protein ligases; 4.2 The SCF and APC/C: the two master E3s regulating the cell cycle; 4.2.1 The SCF: an E3 regulating the G1/S transition
4.2.2 The APC/C: the E3 coordinating cell cycle progression through mitosis and G14.3 Cell cycle targets of the proteolytic machinery; 4.3.1 The transition from G1 to S phase; 4.3.2 Regulators that control DNA replication licensing; 4.3.3 Metaphase to anaphase transition; 4.3.4 Mitotic cyclin destruction: the essential step to exit mitosis; 4.3.5 APCCDC20 versus APCCDH1/CCS52; 4.3.6 Regulation of endoreduplication by the APC/C; 4.4 Conclusion; References; 5 CDK phosphorylation; 5.1 Introduction; 5.2 Overview of CAKs in yeasts and vertebrates; 5.3 Vertebrate-type CAK in plants
5.3.1 CDKD, cyclin H and MAT15.3.2 CDKD protein complexes; 5.3.3 CDKD in cell cycle regulation and transcriptional control; 5.4 Plant-specific CAK; 5.4.1 Unique features of CDKF; 5.4.2 CAK-activating kinase activity of CDKF; 5.5 Manipulation of in vivo CDK activities by CAK; 5.6 Inhibitory phosphorylation of yeast and vertebrate CDKs; 5.7 Inhibitory phosphorylation of plant CDKs; 5.7.1 Plant WEE1 kinases; 5.7.2 Requirement for tyrosine dephosphorylation in plant cell division; 5.7.3 A CDC25-like phosphatase and an antiphosphatase in Arabidopsis; 5.8 Conclusion and perspectives
Acknowledgments

Sommario/riassunto

The cell cycle in plants consists of an ordered set of events, including DNA replication and mitosis, that culminates in cell division. As cell division is a fundamental part of a plant's existence and the basis for tissue repair, development and growth, a full understanding of all aspects of this process is of pivotal importance.Cell Cycle Control and Plant Development commences with an introductory chapter and is broadly divided into two parts. Part 1 details the basic cell machinery, with chapters covering cyclin-dependent kinases (CDKs), cyclins, CDK inhibitors, proteolysis, CDK ph

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Autore	Magli Giulio <1964->
Titolo	Architecture, astronomy and sacred landscape in ancient Egypt / / Giulio Magli
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ISBN	1-108-72977-0 1-107-24164-2 1-139-89140-5 1-107-24784-5 1-107-25116-8 1-107-24867-1 1-139-42455-6 1-107-25033-1 1-107-24950-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xi, 272 pages) : digital, PDF file(s)
Disciplina	932/.01
Soggetti	Architecture, Egyptian Archaeoastronomy - Egypt Egypt Religion Egypt History 332-30 B.C Egypt Antiquities
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	A land for eternity -- A king who looks at the stars -- The lords of the horizon -- A mirage from Heliopolis -- Sons of the sun god -- The lost pyramid -- Renaissance at the winter solstice -- A valley for the kings -- The Horizon of the Aten -- The last of the greats.
Sommario/riassunto	This book examines the interplay between astronomy and dynastic power in the course of ancient Egyptian history, focusing on the fundamental role of astronomy in the creation of the pyramids and the monumental temple and burial complexes. Bringing to bear the analytical tools of archaeoastronomy, a set of techniques and methods that enable modern scholars to better understand the thought, religion

and science of early civilizations, Giulio Magli provides in-depth analyses of the pyramid complexes at Giza, Abusir, Saqqara and Dahshur, as well as of the Early Dynastic necropolis at Abydos and the magnificent new Kingdom Theban temples. Using a variety of data retrieved from study of the sky and measurements of the buildings, he reconstructs the visual, symbolic and spiritual world of the ancient Egyptians and thereby establishes an intimate relationship among celestial cycles, topography and architecture. He also shows how they were deployed in the ideology of the pharaoh's power in the course of Egyptian history.