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Titolo	Plant centromere biology [[electronic resource] /] / editors, Jiming Jiang, James A. Birchler
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Descrizione fisica	1 online resource (223 p.)
Altri autori (Persone)	JiangJiming BirchlerJames A <1950-> (James Arthur)
Disciplina	572.8/2
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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	Cover; Title page; Copyright page; Contents; Contributors; Preface; 1: Arabidopsis Centromeres; Centromere DNA structure; Cytosine methylation and heterochromatin; Centromere proteins; Functional domains; Future prospects and conclusions; Acknowledgments; References; 2: Rice Centromeres; Discovery of the centromeric retrotransposon (CR) in cereal species; CRR elements in rice centromeres; Rice centromeres contain a centromere-specific satellite repeat CentO; Genome-wide mapping of CENH3-associated DNA sequences in rice centromeres; Genes in rice centromeres Epigenetic modification of centromeric DNA and centromeric chromatin in rice Future research; Acknowledgments; References; 3: Maize Centromeres; Molecular characterization of maize centromeres: the beginnings; CENH3; The maize genome sequence; CRM evolution; CentC evolution; Other tandem repeats near maize centromeres; Enrichment of CentC and CRM in functional centromeres; Mapping

centromere BACs; Delineation of the functional centromeres; Arrangement of centromere repeats; Centromere inactivation and reactivation; B centromeres; Sequence turnover at centromeres Epigenetics of maize centromeres Remaining questions; Acknowledgments; References; 4: A Molecular Cytogenetic Analysis of the Structure, Evolution, and Epigenetic Modifications of Major DNA Sequences in Centromeres of Beta Species; The genus Beta; Genomes and chromosomes; Diversity and evolution of satellite DNA as a major component of Beta centromeres; Centromeric retrotransposons in the genus Beta; The centromeres of Beta procumbens and alien fragment addition lines; Epigenetic characterization of the sugar beet centromere; References

5: Centromere Synteny among Brachypodium, Wheat, and Rice Centromeres of wheat; Centromeres of Brachypodium distachyon; Centromere synteny between wheat and rice; Centromere synteny among Brachypodium, wheat, and rice; Possible mechanism of centromere inactivation; Acknowledgments; References; 6: CENH3 for Establishing and Maintaining Centromeres; CENH3: detection and evolution; Identification and localization studies of CENH3 in different plant species; CENH3 duplication in allopolyploid and some diploid species; Loading of CENH3 to plant centromeres during mitotic cell cycle Distribution of CENH3 in pollen nuclei and its resetting in the zygote Epigenetic regulation of kinetochore assembly; Functional requirement of N- and C-terminal parts of CENH3; Recognition of A. thaliana centromeres by heterologous CENH3; Deregulation of CENH3 activity in plants; Interaction of CENH3 with centromeric DNA; Regulation of CENH3 expression by the E2F transcription factor family; CENH3 levels at centromeres decline with the age of tissue; CENH3, from basic research to agricultural application; Acknowledgments; References; 7: Holokinetic Centromeres Occurrence and evolution of holocentric chromosomes

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### Sommario/riassunto

Plant Centromere Biology is dedicated to plant centromere research. Chapters cover the structure of centromeres from several plant species including Arabidopsis thaliana, rice, maize, wheat and beet, while other sections cover several unique characteristics associated with plant centromeres, including classical and modern neocentromeres, centromere drive and centromere misdivision. Additional chapters are dedicated to epigenetic modification and evolution of plant centromeres, and development and application of plant artificial chromosomes. Written by an international group

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2. Record Nr.	UNISA996320834903316
Autore	Elio Nenci
Titolo	Bernardino Baldi's In mechanica Aristotelis problemata exercitationes
Pubbl/distr/stampa	Edition Open Access, 2011
Descrizione fisica	1 electronic resource (376 p.)
Collana	Sources 3: Max Planck Research Library for the History and Development of Knowledge
Altri autori (Persone)	Nenci, Elio
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>_In mechanica Aristotelis problemata exercitationes_ written by Bernardino Baldi is reprinted with an introduction and commentary as the third volume of the series _Sources of the Max Planck Research Library for the History and Development of Knowledge._ The volume is also freely available in electronic form as an open-access publication on the Internet at <a href="http://www.edition-open-access.de">www.edition-open-access.de</a>. The _Exercitationes_ were first published in 1621, four years after the death of the author. The work belongs to the long tradition of studies on the pseudo-Aristotelian _Mechanical Problems_ developed during the Renaissance but, unlike most other works written during the sixteenth century, it takes a critical position against the theoretical approach of the pseudo-Aristotelian text. The _Exercitationes_ display a systematic application of Archimedean principles to the explanation of the questions discussed in _Mechanical Problems_ illustrating the patchwork character of preclassical mechanics. Moreover, Baldi's work presents lengthy digressions that considerably widen the boundaries of mechanics.</p>