



Plant Epigenetics

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Springer International Publishing :
Imprint: Springer,
2017

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Monografía

This book presents, in 26 chapters, the status quo in epigenomic profiling. It discusses how functional information can be indirectly inferred and describes the new approaches that promise functional answers, collectively referred to as epigenome editing. It highlights the latest important advances in our understanding of the functions of plant epigenomics and new technologies for the study of epigenomic marks and mechanisms in plants. Topics include the deposition or removal of chromatin modifications and histone variants, the role of epigenetics in development and response to environmental signals, natural variation and ecology, as well as applications for epigenetics in crop improvement. Discussing areas ranging from the complex regulation of stress and heterosis to the precise mechanisms of DNA and histone modifications, it presents breakthroughs in our understanding of complex phenotypic phenomena

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Título: Plant Epigenetics edited by Nikolaus Rajewsky, Stefan Jurga, Jan Barciszewski

Editorial: Cham Springer International Publishing Imprint: Springer 2017

Descripción física: 1 recurso en línea XI, 536 p. 53 illus., 48 illus. in color

Mención de serie: Springer eBooks RNA Technologies 2197-9731

Detalles del sistema: Modo de acceso: World Wide Web

ISBN: 9783319555201

Materia: Life sciences Biomedical engineering Biotechnology Agriculture Nucleic acids Plant genetics Life Sciences Nucleic Acid Chemistry Plant Genetics & Genomics Agriculture Biomedical Engineering/Biotechnology Biotechnology Ciencias biomédicas

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Entidades: SpringerLink (Online service)

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