



# Genetics and Genomics of Papaya [

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Springer

Life sciences Plant biochemistry Microbial genetics Microbial genomics  
Plant science Botany Plant anatomy Plant development Plant  
physiology Life Sciences Plant Sciences Plant Biochemistry Plant  
Anatomy/Development Plant Physiology Microbial Genetics and Genomics

Monografía

This book reviews various aspects of papaya genomics, including existing genetic and genomic resources, recent progress on structural and functional genomics, and their applications in papaya improvement. Organized into four sections, the volume explores the origin and domestication of papaya, classic genetics and breeding, recent progress on molecular genetics, and current and future applications of genomic resources for papaya improvement. Bolstered by contributions from authorities in the field, *Genetics and Genomics of Papaya* is a valuable resource that provides the most up to date information for papaya researchers and plant biologists

<https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMTc1NzEyNjE>

**Título:** Genetics and Genomics of Papaya Recurso electrónico] edited by Ray Ming, Paul H Moore

**Editorial:** New York [etc.] Springer

**Descripción física:** XIII, 438 p

**Mención de serie:** Plant Genetics and Genomics: Crops and Models 10

**Contenido:** Papaya (*Carica papaya* L.): Origin, Domestication, and Production -- Biology of the Papaya Plant -- Phenotypic and Genetic Diversity of Papaya -- Vasconcellea for Papaya Improvement -- The Phylogeny of the Caricaceae -- History and Future of the Solo Papaya -- Hawaii's Transgenic Papaya Story 1978-2012: A Personal Account -- Molecular Genetic Mapping of Papaya -- Molecular Cytogenetics of Papaya -- Physical Map of Papaya Genome -- Sequencing and Assembly of the Transgenic Papaya Genome -- Syntenic Sequence Conservation Between and Within Papaya Genes -- Papaya Repeat Database -- Genomics of Papaya Fruit Development and Ripening -- Genomics of Papaya Disease Resistance -- Genomics of Papaya Sex Chromosomes -- Physical Mapping of Papaya Sex Chromosomes -- Cloning Major Genes Controlling Fruit Flesh Color in Papaya -- Molecular Markers in Papayas -- Papaya Nutritional Analysis -- Papaya as a Medicinal Plant -- Allele Discovery Platform (ADP) in Papaya (*Carica papaya* L.).

**Detalles del sistema:** Modo de acceso: Word Wide Web Modo de acceso: World Wide Web

**Fuente de adquisición directa:** Springer (e-Books)

**ISBN:** 9781461480877 978-1-4614-8087-7 9781461480860

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**Punto acceso adicional serie-Título:** Plant Genetics and Genomics: Crops and Models 10

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