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Titolo	The Kiwifruit Genome / / edited by Raffaele Testolin, Hong-Wen Huang, Allan Ross Ferguson
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-32274-5
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (XV, 269 p. 55 illus., 38 illus. in color.)
Collana	Compendium of Plant Genomes, , 2199-4781
Disciplina	634.4
Soggetti	Plant genetics Plant breeding Agriculture Plant Genetics and Genomics Plant Breeding/Biotechnology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Botanical description -- Genetic Resources -- World economic importance -- Cytoplasmic DNA in Actinidia -- Cytology, ploidy and ploidy manipulation -- Reproductive Biology -- Markers, maps, and marker-assisted selection -- The Kiwifruit Genome -- Repetitive sequences -- Gene family prediction and annotation.
Sommario/riassunto	This book describes the basic botanical features of kiwifruit and its wild relatives, reports on the steps that led to its genome sequencing, and discusses the results obtained with the assembly and annotation. The core chapters provide essential insights into the main gene families that characterize this species as a crop, including the genes controlling sugar and starch metabolism, pigment biosynthesis and degradation, the ascorbic-acid pathway, fruit softening and postharvest metabolism, allergens, and resistance to pests and diseases. The book offers a valuable reference guide for taxonomists, geneticists and horticulturists. Further, since information gained from the genome sequence is extraordinarily useful in assessing the breeding value of individuals based on whole-genome scans, it will especially benefit plant breeders. Accordingly, chapters are included that focus on gene

introgression from wild relatives and genome-based breeding.