1. Record Nr. UNINA9910877677003321

Titolo	Weedy and invasive plant genomics / / edited by C. Neal Stewart
Pubbl/distr/stampa	Ames, IA, : Wiley-Blackwell, 2009
ISBN	1-282-25950-4 9786612259500 0-8138-0619-4 0-8138-0548-1
Edizione	[1st. ed.]
Descrizione fisica	1 online resource (271 p.)
Altri autori (Persone)	StewartC. Neal
Disciplina	581.6/52
Soggetti	Weeds - Genetics Weeds - Germplasm resources Weeds - Biological control Invasive plants - Genetics Invasive plants - Germplasm resources Invasive plants - Biological control Genomics
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	Weedy and Invasive Plant Genomics; Contents; Contributors; Preface; 1: Why Should Weed Scientists Care About Genomics?; 2: An Introduction To Molecular Genetic And Genomic Techniques; 3: Arabidopsis Is Not A Weed, And Mostly Not A Good Model For Weed Genomics; There Is No Good Model For Weed Genomics; 4: Model Weeds For Genomics Research; 5: 21st-Century Weed Science: A Call For Amaranthus Genomics; 6: Evolutionary Genomics Of Weedy Rice; 7: Rhizomatousness: Genes Important For A Weediness Syndrome; 8: Leafy Spurge: An Emerging Model To Study Traits Of Perennial Weeds 9: Herbicide Resistance: Target Site Mutations10: Molecular And Genomic Mechanisms Of Non-Target-Site Herbicide Resistance; 11: A Herbicide Defense Trait That Is Distinct From Resistance: The Evolutionary Ecology And Genomics Of Herbicide Tolerance; 12: The Genomics Of Plant Invasion: A Case Study In Spotted Knapweed; 13:

	Molecular Ecology Of Plant Competition; 14: Genomics And Weeds: A Synthesis; Index
Sommario/riassunto	Weedy and Invasive Plant Genomics offers a comprehensive, up-to-date reference on genetic and genomics research in weedy and invasive plants. Forward-looking in its approach, the work also assesses the areas of future research necessary to defeat these agricultural pests. This research-based, scholarly work engenders a further understanding of weeds and invasive plants, opening avenues for developing more effective methods of managing them. This volume will be a necessary reference for weed scientists, agrochemical industry researchers, conservation geneticist, and plant biologists.