Record Nr. UNINA9910139788903321 Weedy and invasive plant genomics [[electronic resource] /] / edited by **Titolo** 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.] 1 online resource (271 p.) Descrizione fisica StewartC. Neal Altri autori (Persone) Disciplina 581.6/52 Weeds - Genetics Soggetti Weeds - Germplasm resources Weeds - Biological control Invasive plants - Genetics Invasive plants - Germplasm resources Invasive plants - Biological control Genomics Electronic books. 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. Weedy and Invasive Plant Genomics; Contents; Contributors; Preface; 1: Nota di contenuto 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

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## 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.