

1. Record Nr.	UNINA9910811722803321
Titolo	Plant genotyping : the DNA fingerprinting of plants // edited by R.J. Henry
Pubbl/distr/stampa	Wallington, Oxon ; ; New York, : CABI Pub., c2001
ISBN	1-280-82909-5 9786610829095 0-85199-893-3
Edizione	[1st ed.]
Descrizione fisica	1 online resource (340 p.)
Altri autori (Persone)	HenryRobert J
Disciplina	581.3/5
Soggetti	DNA fingerprinting of plants
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.
Nota di contenuto	Contributors; Preface; 1 Plant Genotyping by Analysis of Single Nucleotide Polymorphisms; 2 Plant Genotyping by Analysis of Microsatellites; 3 Plant Genotyping Using Arbitrarily Amplified DNA; 4 Plant Genotyping Based on Analysis of Single Nucleotide Polymorphisms Using Microarrays; 5 Genotyping in Plant Genetic Resources; 6 Applications of Molecular Marker Techniques to the Use of International Germplasm Collections; 7 Molecular Analysis of Wild Plant Germplasm: the Case of Tea Tree (<i>Melaleuca alternifolia</i>); 8 Genotyping Pacific Island Taro (<i>Colocasia esculenta</i> (L.) Schott) Germplasm 9 Molecular Marker Systems for Sugarcane Germplasm Analysis10 Microsatellite Analysis in Cultivated Hexaploid Wheat and Wild Wheat Relatives; 11 Comparison of RFLP and AFLP Marker Systems for Assessing Genetic Diversity in Australian Barley Varieties and Breeding Lines; 12 Discovery and Application of Single Nucleotide Polymorphism Markers in Plants; 13 Producing and Exploiting Enriched Microsatellite Libraries; 14 Sourcing of SSR Markers from Related Plant Species; 15 Microsatellites Derived from ESTs, and their Comparison with those Derived by Other Methods; 16 Plant DNA Extraction 17 Collection, Reporting and Storage of Microsatellite Genotype Data18 Commercial Applications of Plant Genotyping; 19 Non-gel Based Techniques for Plant Genotyping; 20 Using Molecular Information for Decision Support in Wheat Breeding; 21 Application of DNA Profiling to

an Outbreeding Forage Species; Index

Sommario/riassunto

Plant genotype analysis can be used for the identification of plants in commerce, plant breeding and research. This book examines the technology available and their application in the analysis of wild plant populations, germplasm collections and plant breeding.