

1. Record Nr.	UNINA9911020251303321
Titolo	Plant breeding reviews . Volume 25 // edited by Jules Janick
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, Inc., 2005
ISBN	9786612689031 9781282689039 1282689037 9780470650301 0470650303 9780470650295 047065029X
Descrizione fisica	1 online resource (356 p.)
Collana	Plant breeding reviews, , 0730-2207
Altri autori (Persone)	JanickJules <1931->
Disciplina	631.5/3/05 631.52
Soggetti	Plant breeding
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	PLANT BREEDING REVIEWS, Volume 25; Contents; List of Contributors; 1: Dedication: Stanley J. Peloquin Potato Geneticist and Cytogeneticist; 2: Politics of Plant Breeding; I. INTRODUCTION; II. GERMPLASM, PLANT BREEDING, AND THE FIGHT FOR RIGHTS; III. THE DEBATE OVER BIOTECHNOLOGY; IV. PLANT BREEDERS' CHOICES; LITERATURE CITED; 3: Doubled Haploids in Genetics and Plant Breeding; I. INTRODUCTION; II. DOUBLED HAPLOID TECHNOLOGY; III. DOUBLED HAPLOID POPULATIONS IN GENETICS; IV. DOUBLED HAPLOIDS IN BREEDING; V. PROSPECTS; LITERATURE CITED; 4: Biochemistry and Genetics of Flower Color I. INTRODUCTIONII. FLAVONOID CHEMISTRY; III. ANTHOCYANIN BIOSYNTHESIS; IV. MENDELIAN INHERITANCE; V. TRANSGENE TECHNOLOGY; LITERATURE CITED; 5: The Influence of Mitochondrial Genetics on Crop Breeding Strategies; I. INTRODUCTION; II. STRUCTURE OF THE MITOCHONDRIAL GENOME IN PLANTS; III. CYTOPLASMIC MALE STERILITY; IV. OCCURRENCE AND DEVELOPMENTAL IMPLICATIONS OF NUCLEAR-CYTOPLASMIC INCOMPATIBILITY; V. SOME IMPLICATIONS OF CYTOPLASMIC GENETICS FOR THE PLANT BREEDER; LITERATURE CITED;

6: Genetic and Cytoplasmic-Nuclear Male Sterility in Sorghum; I. INTRODUCTION; II. GENETIC MALE STERILITY (GMS) III. CYTOPLASMIC-NUCLEAR MALE STERILITY IV. MOLECULAR CHARACTERIZATION OF CYTOPLASMS; V. DNA POLYMORPHISM AND MAPPING RESTORER GENES; VI. FACTORS INFLUENCING CMS SYSTEMS USE; VII. DIVERSIFICATION OF CMS SYSTEMS; VIII. HETEROSIS AND HYBRID DEVELOPMENT; IX. CONCLUSION; LITERATURE CITED; 7: Improving Drought Tolerance in Maize; I. INTRODUCTION; II. PHYSIOLOGY OF THE RESPONSE OF MAIZE UNDER DROUGHT; III. EXPERIMENTAL METHODS; IV. APPLIED BREEDING METHODS; V. MOLECULAR BREEDING; VI. CONCLUSIONS; LITERATURE CITED; 8: The Origins of Fruits, Fruit Growing, and Fruit Breeding; I. INTRODUCTION II. THE HORTICULTURAL ARTS III. ORIGIN, DOMESTICATION, AND EARLY CULTURE OF FRUIT CROPS; IV. GENETIC CHANGES AND CULTURAL FACTORS IN DOMESTICATION; LITERATURE CITED; Subject Index; Cumulative Subject Index; Cumulative Contributor Index

Sommario/riassunto

Plant Breeding Reviews presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. Many of the crops widely grown today stem from a very narrow genetic base. Understanding and preserving crop genetic resources is vital to the security of food systems worldwide.
