

1. Record Nr.	UNINA9910877396403321
Titolo	Plant breeding reviews . Volume 11 // edited by Jules Janick
Pubbl/distr/stampa	New York, : John Wiley & Sons, Inc., 1993
ISBN	1-282-68898-7 9786612688980 0-470-65003-6 0-470-65002-8
Descrizione fisica	1 online resource (345 p.)
Collana	Plant breeding reviews, , 0730-2207
Altri autori (Persone)	JanickJules <1931->
Disciplina	631.5
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 indexes.
Nota di contenuto	PLANT BREEDING REVIEWS, Volume 11; Contents; Contributors; 1: Dedication: John H. Weinberger-Fruit Breeder and Horticulturalist; 2: Reproductive Barriers: Identification, Uses, and Circumvention; I. INTRODUCTION; II. FLORAL ADAPTIVE MECHANISMS; III. STERILITY; IV. GAMETE COMPETITION AND RESOURCE ALLOCATION; V. SELF-INCOMPATIBILITY (SI); VI. INCONGRUITY; VII. INBREEDING DEPRESSION; VIII. APOMIXIS; IX. POLYPLOIDY; X. DIFFERENTIATION BETWEEN REPRODUCTIVE BARRIERS; XI. CONCLUDING REMARKS; LITERATURE CITED; 3: Advances in Achieving the Needs for Biotechnologically-Derived Herbicide Resistant Crops I. INTRODUCTIONII. DELINEATING THE NEEDS; III. DELINEATING CONTRAINDICATED SITUATIONS; IV. NEW TECHNOLOGIES TO OBTAIN RESISTANCE; V. SOURCES OF GENES; VI. ADVANCES IN OBTAINING HERBICIDE-RESISTANT CROPS; VII. WHO SHOULD PRODUCE BIOTECHNOLOGICALLY-DERIVED, HERBICIDE-RESISTANT CROP CULTIVARS?; LITERATURE CITED; 4: Anther Culture of Maize; I. INTRODUCTION; II. HAPLOID PRODUCTION; III. DOUBLED HAPLOID PLANTS AND THEIR PROGENY; IV. CONCLUSIONS; LITERATURE CITED; 5: An Effective Wheat Gene Manipulation System: Problems and Uses; I. INTRODUCTION; II. ALIEN GENE MANIPULATION III. EXPRESSION OF ALIEN GENESIV. MONITORING ALIEN GENE

COMPLEXES; LITERATURE CITED; 6: Molecular Biology and Wheat Improvement; I.INTRODUCTION; II.QUANTITATIVE TRAITS; III. SIMPLY INHERITED TRAITS; IV. A MOLECULAR UNDERSTANDING AND WHEAT BREEDING; V. CONCLUSIONS; LITERATURE CITED; 7: Breeding Systems for Cross-Pollinated Perennial Grasses; I. INTRODUCTION; II. REPRODUCTIVE AND BREEDING CHARACTERISTICS; III. BREEDING SYSTEMS; IV. GAINS FROM SELECTION; V. POLYCROSSING; VI. HYBRID CULTIVARS; VII. CONCLUSIONS; LITERATURE CITED; 8: Molecular Genetic Analysis of Nodulation Genes in Soybean I. SIGNIFICANCE OF NODULATION AND NITROGEN FIXATIONII. NODULATION; III. AUTOREGULATION MUTANTS; IV. AGRONOMIC EVALUATION OF SUPERNODULATION SOYBEANS; V. CONCLUSIONS, MODELS, AND FUTURE PERSPECTIVES; 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. The emphasis of the series is on methodology, a fundamental understanding of crop genetics, and applications to major crops. It is a serial title that appears in the form of one or two volumes per year
