

1. Record Nr.	UNINA9911020131003321
Titolo	Plant breeding reviews . Volume 34 // edited by Jules Janick
Pubbl/distr/stampa	Hoboken, NJ, : Wiley, c2011
ISBN	9786613025111 9781283025119 1283025116 9780470880579 0470880570 9780470880562 0470880562
Descrizione fisica	1 online resource (394 p.)
Collana	Plant Breeding Reviews ; ; v. 34
Altri autori (Persone)	JanickJules <1931->
Disciplina	631.5/3/05 631.52
Soggetti	Plant breeding Plant propagation
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 34; Contents; Contributors; 1 Dedication: Kenneth J. Frey Oat Breeder, Educator, and Champion of Plant Breeding; I. INTRODUCTION; II. EARLY LIFE AND CAREER BEGINNINGS; III. RESEARCH; IV. GRADUATE EDUCATOR; V. CHAMPION OF PLANT BREEDING: THE NATIONAL PLANT BREEDING STUDY; VI. THE MAN; VII. AWARDS AND HONORS; VIII. EPILOGUE; LITERATURE CITED; SELECTED PUBLICATIONS OF KENNETH J. FREY; 2 Strategies for Enhancing Grain Yield in Maize; I. A HISTORICAL PERSPECTIVE; II. OPPORTUNITIES FOR FUTURE YIELD IMPROVEMENT; III. PLANT DENSITY IV. IMPROVEMENT IN RESOURCE-USE EFFICIENCYV. CONCLUSIONS; LITERATURE CITED; 3 Quality Protein Maize: Progress and Prospects; I. INTRODUCTION; II. QUALITY PROTEIN MAIZE: A COMPLEX GENETIC AND BIOCHEMICAL SYSTEM; III. HUMAN NUTRITIONAL BENEFITS OF QPM; IV. QPM AS LIVESTOCK FEED; V. PROGRESS IN THE DEVELOPMENT OF QPM HYBRIDS AND SYNTHETICS; VI. RELEASE AND ADOPTION OF QPM

CULTIVARS; VII. CONCLUSIONS; LITERATURE CITED; 4 Vegetative Phase Change in Maize: Biotic Resistance and Agronomic Performance; I. INTRODUCTION; II. VEGETATIVE PHASE CHANGE AND BIOTIC RESISTANCE IN MAIZE
 III. VEGETATIVE PHASE CHANGE AND AGRONOMIC PERFORMANCE IN MAIZE
 IV. VEGETATIVE PHASE CHANGE AND PEST RESISTANCE ON OTHER PLANT SPECIES; V. SUMMARY AND CONCLUSIONS; LITERATURE CITED; 5 Plant Interspecific Hybridization: Outcomes and Issues at the Intersection of Species; I. INTRODUCTION; II. SPECIES AND HYBRIDS; III. PROTOCOLS FOR HYBRIDIZATION; IV. OUTCOMES OF HYBRIDIZATION; V. GENOMIC AND GENE EXPRESSION CONSEQUENCES OF INTERSPECIFIC HYBRIDIZATION; VI. VERIFICATION OF HYBRIDS; VII. ESTIMATING DONOR PARENTAL DNA CONTENT IN PROGENY FROM HYBRIDS; VIII. CONCLUSIONS; LITERATURE CITED
 6 DNA-Based Identification of Clonally Propagated Cultivars
 I. INTRODUCTION; II. MOLECULAR METHODS; III. CHOICE OF METHOD; IV. APPLICATIONS; V. CONCLUSIONS AND FUTURE OUTLOOKS; LITERATURE CITED; 7 Designing Marker-Assisted Inbred Line Development Strategies Using Computer Simulation; I. INTRODUCTION; II. REQUIREMENTS FOR MODELING BREEDING PROGRAM; III. RECENT DEVELOPMENT IN GENETIC MAPPING; IV. INVESTIGATING THE EFFECTIVENESS OF MAS STRATEGIES; V. EXAMPLES TO DEMONSTRATE THE DESIGN OF MAS STRATEGIES; VI. PROSPECTS; VII. CONCLUSION; LITERATURE CITED; Subject Index; Cumulative Subject Index
 Cumulative Contributor Index
 Colour Plates

Sommario/riassunto

Plant Breeding Reviews presents state-of-the-art reviews on plant breeding and genetics covering horticultural, agronomic and forestry crops, incorporating both traditional and molecular methods. The contributions are authored by world authorities, anonymously reviewed, and edited by Professor Jules Janick of Purdue University, USA. The series is an indispensable resource for crop breeders, plant scientists, and teachers involved in crop improvement and genetic resources.
