1. Record Nr. UNINA9910140598603321

Autore	Janick Jules
Titolo	Plant breeding reviews . Volume 21 [[electronic resource] /] / edited by Jules Janick
Pubbl/distr/stampa	New York, : John Wiley & Sons, Inc., c2001
ISBN	1-282-68897-9 9786612688973 0-470-65019-2 0-471-21702-6
Descrizione fisica	1 online resource (340 p.)
Collana	Plant breeding reviews, , 0730-2207
Altri autori (Persone)	JanickJules <1931->
Disciplina	631.52 631.5305 P694
Soggetti	Plant breeding 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 indexes.
Nota di contenuto	PLANT BREEDING REVIEWS, Volume 21; Contents; Contributors; 1: Dedication: Dirk R. Vuylsteke: Musa Scientist and Humanitarian; I. BIOGRAPHICAL SKETCH; II. RESEARCH ACHIEVEMENT; III. THE MAN; 2: Epistasis and Plant Breeding; I. INTRODUCTION; II. GENE ACTION AND STATISTICAL EFFECTS; III. EPISTASIS AND MOLECULAR INTERACTIONS; IV. COMPLEX MOLECULAR INTERACTIONS UNDERLIE QUANTITATIVE PHENOTYPES (SOMETIMES); V. BIOMETRICAL EVIDENCE FOR EPISTASIS; VI. EVIDENCE FOR EPISTASIS FROM PLANT EVOLUTION STUDIES; VII. MOLECULAR MARKER INVESTIGATIONS OF EPISTASIS VIII. WHY IS THERE MORE EVIDENCE FOR EPISTASIS FROM QTL EXPERIMENTS THAN FROM BIOMETRICAL STUDIES?IX. IMPLICATIONS OF EPISTASIS FOR PLANT BREEDING; LITERATURE CITED; 3: Origin, History, and Genetic Improvement of the Snap Pea (Pisum sativum L.); I. INTRODUCTION; II. GENETICS OF SNAP PEAS; III. BREEDING OBJECTIVES; IV. BREEDING METHODS; V. TRAITS OF SPECIAL CONCERN; VI. MOLECULAR MARKERS AND TRANSFORMATION; VII. FUTURE PROSPECTS; LITERATURE CITED; 4: Strawberry Biotechnology; I. DEVELOPMENT OF THE MODERN STRAWBERRY; II. GENETIC

FINGERPRINTING AND GENE TAGGING; III. MAPPING
IV. IN VITRO BIOLOGY, GENETIC TRANSFORMATION, AND GENE CLONINGV. FUTURE PROSPECTS; LITERATURE CITED; plates; 5: Contributions of DNA Molecular Marker Technologies to the Genetics and Breeding of Wheat and Barley; I. INTRODUCTION; II. MOLECULAR MARKERS IN GENETIC DIVERSITY STUDIES IN WHEAT AND BARLEY; III. MOLECULAR MARKERS FOR CULTIVAR IDENTIFICATION; IV. MARKER ASSISTED SELECTION; V. MARKER-BASED GENOTYPING IN CROP BREEDING AND GENETICS; VI. THE FUTURE OF MOLECULAR GENOTYPING IN CROP BREEDING AND GENETICS; LITERATURE CITED; 6: Diversity in Landraces of Cereal and Legume Crops
I. INTRODUCTIONII. GEOGRAPHIC DIVERGENCE; III. FACTORS AFFECTING DIVERSITY; IV. CONCLUSIONS; LITERATURE CITED; 7: Production and Evaluation of Hybrid Soybean; I. INTRODUCTION; II. FLOWER MORPHOLOGY AND POLLINATION; III. INSECT-MEDIATED CROSS-POLLINATION; IV. MALE STERILITY; V. MALE STERILITY AS A TOOL IN PLANT BREEDING; VI. HETEROSIS IN SOYBEAN; VII. DISCUSSION AND SUMMARY; LITERATURE CITED; Subject Index; Cumulative Subject Index; Cumulative Contributor Index

Sommario/riassunto

Plant Breeding Reviews is an ongoing series presenting state-of-the art review articles on research in plant genetics, especially the breeding of commercially important crops. Articles perform the valuable function of collecting, comparing, and contrasting the primary journal literature in order to form an overview of the topic. This detailed analysis bridges the gap between the specialized researcher and the broader community of plant scientists.