Record Nr. UNINA9910877713303321 Plant breeding reviews . Volume 9 / / edited by Jules Janick **Titolo** New York, : John Wiley & Sons, Inc., 1992 Pubbl/distr/stampa **ISBN** 1-282-68900-2 9786612689000 0-470-65036-2 0-470-65035-4 Descrizione fisica 1 online resource (416 p.) Collana Plant breeding reviews, , 0730-2207 Altri autori (Persone) JanickJules <1931-> Disciplina 631.5/3/05 631.53 Plant breeding Soggetti 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 9; Contents; Contributors; 1: Dedication: Royce S. Bringhurst Pre-eminent Strawberry Breeder; 2: The Diallel Cross: Design, Analysis, and Use for Plant Breeders; I. INTRODUCTION; II. GRIFFING'S ANALYSIS; III. HAYMAN AND JINKS' ANALYSIS; IV. VARIETY CROSS DIALLEL; V. PARTIAL DIALLEL CROSS; VI. DISCUSSION; VII. STATISTICAL PROGRAMS-SOFI'WARE; VIII. SUMMARY; LITERATURE CITED; 3: Biochemical and Molecular Markers in Plant Breeding; I. INTRODUCTION; II. CONCEPTS AND GENERAL THEORY FOR USING MARKER TECHNOLOGY IN PLANT BREEDING APPLICATIONS III. DESIRED ATTRIBUTES OF MARKERS FOR PLANT BREEDING APPLICATIONS IV. DEVELOPMENT OF MOLECULAR-MARKER LINKAGE MAPS IN PLANTS; V. MARKER ASSOCIATIONS; VI. MAPPING

APPLICATIONS IV. DEVELOPMENT OF MOLECULAR-MARKER LINKAGE MAPS IN PLANTS; V. MARKER ASSOCIATIONS; VI. MAPPING QUANTITATIVE TRAIT LOCI (QTLs); VII. MANIPULATION OF QUANTITATIVE TRAITS USING MARKER-FACILITATED METHODS; VIII. CONCLUSIONS/PROSPECTS; LITERATURE CITED; 4: Homeotic Floral Mutations; I. INTRODUCTION; II. HOMEOSIS DEFINED; III. HOMEOSIS AND DEVELOPMENT; IV. DISTRIBUTION, NATURE, AND CLASSIFICATION OF HOMEOTIC FLORAL MUTATIONS; V. PLANT BREEDING APPLICATIONS; VI. SUMMARY AND CONCLUSIONS; LITERATURE CITED

5: Recurrent Restricted Phenotypic SelectionI. INTRODUCTION; II. THE

Selection In Maize; I. INTRODUCTION; II. METHODS OF GERMPLASM IMPROVEMENT: III. APPLICATION TO APPLIED BREEDING: IV. GENETIC ADVANCE; V. CONCLUSION; LITERATURE CITED; 7: Breeding of Quality Protein Maize (QPM); I. INTRODUCTION; II. QUALITY PROTEIN MUTANTS; III. BREEDING HISTORY; IV. FUTURE PLANS; LITERATURE CITED; 8: Breeding Potatoes for Long-day, Temperate Climates; I. INTRODUCTION; II. GERMPLASM; III. CULTIVAR DEVELOPMENT; IV. PRODUCTION TRAITS V. UTILIZATION TRAITSVI. PROTECTION TRAITS; VII. IN VITRO TRAITS; VIII. CULTIVAR RELEASE; IX. SUMMARY; LITERATURE CITED; 9: Genetics of Apple; I. INTRODUCTION; II. CHROMOSOME NUMBER AND INHERITANCE; III. REPORTED GENES; IV. NOMENCLATURE RECOMMENDATIONS; V. CONCLUSION; LITERATURE CITED; 10: Pollenincompatibility and Self-fertility in Sweet Cherry; I. INTRODUCTION; II. INHERITANCE AND MECHANISM OF POLLEN-INCOMPATIBILITY: III. COMPOUNDS INVOLVED IN THE INCOMPATIBILITY REACTION; IV. POLLEN-INCOMPATIBILITY GROUPS AND ASSIGNMENT OF CULTIVARS; V.

RRPS SYSTEM; III. PROGRESS REALIZED; LITERATURE CITED; 6: Recurrent

INDUCED AND SPONTANEOUS SELF-FERTILITY

VI. INHERITANCE OF SELF-FERTILITY VII. BREEDING FOR SELF-FERTILITY; VIII. CONCLUSIONS; LITERATURE CITED; Subject Index; Cumulative

Subject Index; Cumulative Contributor Index

Sommario/riassunto

Dedication: Royce S. Bringhurst--Pre-Eminent Strawberry Breeder (J. Hancock). The Diallel Cross: Design, Analysis, and Use for Plant Breeders (B. Christie & V. Shattuck). Biochemical and Molecular Markers in Plant Breeding (C. Stuber). Homeotic Floral Mutations (G. Acquaah, et al.). Recurrent Restricted Phenotypic Selection (G. Burton). Recurrent Selection in Maize (A. Hallauer). Breeding of Quality Protein Maize (QPM) (M. Bjarnason & S. Vasal). Breeding Potatoes for Long-Day, Temperate Climates (T. Tarn, et al.). Genetics of Apple (S. Brown). Pollen-Incompatibility and Self-Fertility in Sweet