Record Nr. UNINA9911019696703321 **Titolo** Plant breeding reviews . Volume 13 / / edited by Jules Janick New York, : John Wiley & Sons, Inc., 1995 Pubbl/distr/stampa **ISBN** 9786612689055 9781282689053 1282689053 9780470650059 0470650052 9780470650042 0470650044 Descrizione fisica 1 online resource (397 p.) Collana Plant breeding reviews, , 0730-2207 Altri autori (Persone) JanickJules <1931-> Disciplina 631.52 631.53 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 13; Contents; Contributors; 1: Dedication: Arlen D. Draper: Blueberry Wizard; 2: Genetic Markers and Plant Genetic Resource Management; I. INTRODUCTION; II. PLANT GERMPLASM, GENETIC MARKERS, AND ANALYTICAL METHODS; III. PLANT GENETIC RESOURCE MANAGEMENT; IV. CONCLUDING REMARKS AND FUTURE PROSPECTS; LITERATURE CITED; 3: Honeycomb Selection Designs; I. INTRODUCTION; II. PRINCIPLE OF THE MOVING REPLICATE; III. CONSTRUCTION OF REPLICATED HONEYCOMB DESIGNS: IV. MOVING-CIRCLE SELECTION; V. UNREPLICATED HONEYCOMB DESIGNS; VI. TRIAL ESTABLISHMENT AND ANALYSIS VII. APPLICATION EXAMPLESVIII. FUTURE OF SELECTION DESIGNS; IX. SUMMARY; LITERATURE CITED; 4: Breeding for Negatively Associated Traits; I. INTRODUCTION; II. HYPOTHESIS OF CONSTANT SYSTEM CAPACITY; III. BASES FOR CONSTANT SYSTEM CAPACITY; IV. BREEDING STRATEGIES; V. INTERPLANT COMPETITION AND CROP YIELD; VI. ANALYSIS OF CONSTANT-CAPACITY SYSTEMS; VII. SUMMARY AND CONCLUSIONS; LITERATURE CITED; 5: Long-Term Pollen Storage; I.

INTRODUCTION; II. POLLEN BIOLOGY; III. VIABILITY AND QUALITY ASSESSMENT; IV. STORAGE FACTORS; V. POLLEN STORAGE; VI. CONCLUSIONS: LITERATURE CITED 6: Inbreeding Depression in Alfalfa and Cross-Pollinated Cropsl. INTRODUCTION; II. GENETIC THEORIES OF INBREEDING DEPRESSION; III. INBREEDING DEPRESSION IN DIPLOID MAIZE: IV. OTHER GRASS SPECIES: V. VEGETABLE CROPS; VI. INBREEDING DEPRESSION IN AUTOTETRAPLOIDS; VII. CONCLUSIONS; LITERATURE CITED; 7: Cereal Transformation Through Particle Bombardment; I. INTRODUCTION; II. BIOLOGICAL FACTORS THAT AFFECT TRANSFORMATION; III. PHYSICAL PARAMETERS THAT AFFECT DNA DELIVERY; IV. SELECTION OF STABLY TRANSFORMED CELLS AND PLANT REGENERATION V. ANALYSIS OF GENE EXPRESSION AND TRANSMISSION TO THE PROGENYVI. CONCLUSIONS: LITERATURE CITED: 8: Breeding Perennial Rye: I. INTRODUCTION: II. SEMISTERILITY IN PROGENIES FROM S. CEREALE x S. MONTANUM; III. ESCAPE FROM SEMISTERILITY; IV. IMPLICATIONS OF 2RMON, 6RMON, AND 7RMON IN RYE BREEDING; V. BREEDING RESULTS; VI. SPRING RYE: DROUGHT-TOLERANT PERENNIAL FORAGE; VII. BREAD QUALITY OF PERENNIAL RYE; VIII. UTILIZATION OF PERENNIAL RYE; IX. CONCLUSIONS; LITERATURE CITED; 9: Genetics of Wheat-Rust Interaction: I. INTRODUCTION: II. WHEAT-RUST INTERACTION: III. LEAF RUST RESISTANCE STUDIES IV. STEM RUST RESISTANCE STUDIESV. STRIPE RUST RESISTANCE STUDIES; VI. RESISTANCE CLASSIFICATIONS; VII. DURABLE RESISTANCE SOURCES: VIII. DURABILITY THROUGH GENETIC DIVERSITY: IX.

Sommario/riassunto

Dedication: Arlen D. Draper: Blueberry Wizard (J. Hancock & G. Galletta). Genetic Markers and Plant Genetic Resource Management (P. Bretting & M. Widrlechner). Honeycomb Selection Designs (A. Fasoulas & V. Fasoula). Breeding for Negatively Associated Traits (W. Yan & D. Wallace). Long-Term Pollen Storage (W. Hanna & L. Towill). Inbreeding Depression in Alfalfa and Cross-Pollinated Crops (J. Jones & E. Bingham). Cereal Transformation Through Particle Bombardment (A. Casas, et al.). Breeding Perennial Rye (R. Reimann-Philipp). Genetics of Wheat-Rust Interaction (R. Sawhney). Origin, Evolution, a

SUMMARY; LITERATURE CITED; 10: Origin, Evolution, and Breeding of the Grapefruit; I. INTRODUCTION; II. ORIGIN; III. EVOLUTION OF

GRAPEFRUIT CULTIVARS; IV. BREEDING GRAPEFRUIT AND HYBRID CULTIVARS; V.SUMMARY; LITERATURE CITED; Subject Index; Cumulative

Subject Index; Cumulative Contributor Index