Record Nr. UNINA9910877435103321 Plant breeding reviews . Volume 22 / / edited by Jules Janick **Titolo** Hoboken, N.J., : John Wiley & Sons, c2003 Pubbl/distr/stampa **ISBN** 1-280-36735-0 9786610367351 0-470-30185-6 0-470-65020-6 0-471-46338-8 Descrizione fisica 1 online resource (457 p.) Collana Plant breeding reviews ; ; v. 22 Altri autori (Persone) JanickJules <1931-> Disciplina 631.52 Soggetti Plant breeding New crops - Breeding Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto PLANT BREEDING REVIEWS Volume 22; Contents; List of Contributors; 1. Dedication: Denton E. Alexander; Teacher, Maize Geneticist, and Breeder; 2. Estimating and Interpreting Heritability for Plant Breeding: An Update; I. The Meaning of Heritability; II. Response to Selection; III. Covariances of Relatives; IV. Variance Among Selection Units; V. Estimating Heritability as a Function of Variance Components: VI. Estimating Heritability from Parent-Offspring Regression; VII. Estimating Realized Heritability; VIII. Examples of Heritability Estimates; Appendices: Literature Cited 3. Advanced Statistical Methods for Estimating Genetic Variances in PlantsI. Introduction; II. Genetic Model; III. Least Squares Estimation; IV. Maximum Likelihood Analysis; V. Bayesian Analysis; VI. Discussion and Conclusions; Literature Cited; 4. Oil Palm Genetic Improvement; I. Introduction; II. Germplasm Resources; III. Improvement Objectives; IV. Breeding Techniques; V. Future Prospects; Literature Cited; 5. Breeding Wheat for Resistance to Insects; I. Introduction; II. Wheat Stem Sawfly; III. Wheat Midge; IV. Hessian Fly; V. Russian Wheat Aphid; VI. Greenbug; Literature Cited 6. Peanut Breeding and Genetic Resourcesl. Introduction; II. Evolution

and Taxonomy; III. Reproductive Development; IV. Cytogenetics and Genomes; V. Genetic Resources; VI. Breeding Peanut; VII. Summary; Literature Cited; 7. History and Breeding of Table Beet in the United States; I. Introduction; II. Crop Origins; III. Horticulture of Table Beet; IV. Genetics and Breeding; V. Breeding Methods; VI. Future Directions; Literature Cited; 8. Yeast as a Molecular Genetic System for Improvement of Plant Salt Tolerance; I. Introduction; II. Yeast Complementation

III. Orthologous Plant and Yeast GenesIV. Similarity of Cellular Salt Tolerance in Plants and Yeast; Literature Cited; Subject Index; Cumulative Subject Index; Cumulative Contributor Index

Sommario/riassunto

Plant Breeding Reviews, Volume 22 presents state-of-the-art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods. The emphasis of the series is on methodology, a practical understanding of crop genetics, and applications to major crops.