

| | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910813958803321 |
| Titolo | Genetics, genomics and breeding of maize // editors, Ramakrishna Wusirika, Department of Biological Sciences, Michigan Technological University, Houghton, MI, USA ; Martin Bohn, Crop Science Department, University of Illinois, Urbana, IL USA ; J |
| Pubbl/distr/stampa | Boca Raton : , : CRC Press, , [2015] ©2015 |
| ISBN | 0-429-07570-7 1-4822-2813-0 |
| Descrizione fisica | 1 online resource (307 p.) |
| Collana | Genetics, Genomics and Breeding of Crop Plants |
| Disciplina | 633.1/5233 633.15233 |
| Soggetti | Corn - Genetics Corn - Genome mapping Corn - Breeding |
| 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. |
| Nota di contenuto | Front Cover; Preface to the Series; Dedication; Preface to the Volume; Contents; List of Contributors; Abbreviations; Chapter 1 - Basic Information; Chapter 2 - Breeding and Genetic Diversity; Chapter 3 - Genomic Distribution of Genetic Diversity in Elite Maize Germplasm; Chapter 4 - Genetic Inference on Quantitative Traits Through Linkage and Association Studies; Chapter 5 - Molecular Marker-Assisted Breeding for Tropical Maize Improvement; Chapter 6 - Comparative Genomics; Chapter 7 - Functional Genomics; Chapter 8 - Epigenomics Chapter 9 - Proteomic Research Progress in Maize Development, Stress Response and HeterosisChapter 10 - Artificial Chromosome Platforms in Maize; Chapter 11 - Databases; Chapter 12 - Non-Traditional Uses of Maize: Biofuels, Remediation and Pharmaceuticals; Chapter 13 - Future Maize Hybrid Development: Breeding with Assistance of Molecular and Genomics Technologies and Transgenics; Color Plate Section; Back Cover |
| Sommario/riassunto | <P>Sequencing of the maize genome has opened up new opportunities |

in maize breeding, genetics and genomics research. This book highlights modern trends in development of hybrids, analysis of genetic diversity, molecular breeding, comparative and functional genomics, epigenomics and proteomics in maize. The use of maize in biofuels, phytoremediation and pharmaceuticals is also highlighted. Current research trends, future research directions and challenges are discussed by a panel of experts from all over the world.</P>
