1. Record Nr. UNISA996385636603316 Mason John <1646?-1694.> Autore The midnight-cry [[electronic resource]]: a sermon preached on the Titolo Parable of the Ten Virgins // by J.M., M.A., rector of W, in the county of Pubbl/distr/stampa London,: Printed for Nathanael Ranew ..., 1691 [The second edition, with the addition of two hymns for the coming of Edizione Christ, by the same author.] Descrizione fisica 32, 4 p Soggetti Ten virgins (Parable) Millennium Sermons, English - 17th century Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia This item appears at reel 698:10 incorrectly identified as Wing M917, Note generali and at reel 1728:1 as Wing M917A. Reproduction of original in Huntington Library. Sommario/riassunto eebo-0113

2. Record Nr. UNINA990008952790403321

Titolo Ecological modelling

Pubbl/distr/stampa Amsterdam, : Elsevier

ISSN 0304-3800

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Periodico

Record Nr. UNINA9911015860203321

Autore Tripathi Kuldeep

Titolo Textbook of Plant Genetic Resources / / edited by Kuldeep Tripathi,

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Singh

Pubbl/distr/stampa Singapore:,: Springer Nature Singapore:,: Imprint: Springer,, 2025

ISBN 9789819650248

9789819650231

Edizione [1st ed. 2025.]

Descrizione fisica 1 online resource (710 pages)

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SinghGyanendra Pratap

Disciplina 581.35

Soggetti Plant genetics

Plant physiology

Plant molecular biology

Plant Genetics
Plant Physiology

Plant Molecular Biology

Lingua di pubblicazione Inglese

Formato Materiale a stampa

Livello bibliografico Monografia

Nota di contenuto

Chapter 1. An Introduction to Plant Genetic Resources -- Chapter 2. Plant Taxonomy and its role in studies of Plant Genetic Resources (PGR) -- Chapter 3. Plant Domestication, Centres of Origin and Diversity of Cultivated Plants -- Chapter 4. Plant Germplasm Introduction and Exchange Activities -- Chapter 5. Plant Exploration and Germplasm collection -- Chapter 6. Plant guarantine and Bio-security -- Chapter 7. Conservation Strategies for PGR Management -- Chapter 8. Tissue Culture and Cryopreservation Strategies -- Chapter 9. Germplasm Characterization and Evaluation -- Chapter 10. Biochemical Tools for PGR Management -- Chapter 11. Genomics Tools for PGR Management -- Chapter 12. Crop Wild Relatives and their Utilization in Crop Improvement -- Chapter 13. National and International Genebanks: Conservation Status of Plant Genetic Resources -- Chapter 14. Geographic Information Systems (GIS) application in PGR Management -- Chapter 15. PGR Policy and Intellectual Property Rights (IPR) --Chapter 16. Statistical tools for PGR Management -- Chapter 17. PGR Informatics.

Sommario/riassunto

This Textbook is an assemblage of comprehensive information complied by distinguished plant genetic resources (PGR) experts covering current research and updated syllabus of ICAR and UGC for masters and PhD courses in Plant Genetic Resources. The book provides complete information on recent technological advances in PGR science including management of genetic resources, conservation, tissue culture, cryopreservation, quarantine and bio-security-related topics. It has 17 chapters and covers the syllabus in depth with special focuses on crop wild relatives, crop genomics, policies issues, and also highlights the research priorities and importance of field translation. It catalogues both conventional as well as modern tools and provides innovative strategies for sustainable PGR conservation and utilization in climate change scenarios to meet the United Nations' Sustainable Development Goals (SDG). It also brings together up-to-date information on various legislations of global policies like the Convention on Biological Diversity (CBD), International Treaty on Plant Genetic Resources for Food and Agriculture (ITPGRFA), Access and Benefit Sharing (ABS), and NAGOYA protocol. This textbook is an allinclusive collection of information, which is beneficial for postgraduate, and PhD students. In addition, it is also a reference material for agriculturists, plant breeders, seed technologists, plant pathologists, biotechnologists, biochemists, pharmacologists, agronomists, botanists, entomologists, social scientists, policy analysts and any other persons interested in getting information about plant genetic resources.