

Exploration, Identification and Utilization of Barley Germplasm

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Exploration, Identification and Utilization of Barley Germplasm Guoping Zhang, Chengdao Li, 2015-12-07 Exploration Identification and Utilization of Barley Germplasm explores the timely global challenges related to barley production posed by the narrowing of biodiversity and problem soils identifying elite genotypes which will enhance barley breeding and be essential to genetic and evolution studies The book covers the utilization of barley germplasm for improving the quality of both food and feed barley as well as exploring and utilizing varieties of germplasm that are tolerant to drought waterlogged salt and acid soil Chapters are devoted to prime strategies for future research including identifying barley germplasm by applying Omics exploring barley germplasm by means of the Focused Identification of Germplasm Strategy FIGS and creating barley germplasm through mutation Users will find this book to be a key research reference for both professionals and academics providing a comprehensive update for established barley researchers that equips them with an understanding of the new methodologies needed for innovation and discovery while also providing a helpful entry to the subject for young researchers and students Provides a one stop shop to acquire a speedy overview of the main and recently applied issues of barley breeding Provides newly developed methodologies in barley germplasm research Describes special genotypes from wild barley including Tibetan wild barley which show a high tolerance to abiotic stresses and carry different alleles from cultivated barley

Exploration, Identification and Utilization of Barley Germplasm 2015, 2015, 2018 Conservation and Sustainable Utilization of Bioresources Swapna Thacheril Sukumaran, Keerthi T R, 2023-01-05 This book brings together chapters related to sustainable utilization of biological resources including in situ and ex situ conservation of rare endangered and threatened plants The title also gives a special emphasis on marine sponges and mangrove ecosystems which are two important untapped potential resources of the marine ecosystem and play a key role in maintaining the marine ecosystem There is an urgent need for the conservation exploration and utilization of bioresources for the growth and survival of human beings Due to the significant reduction in biological resources many countries are developing strategic action plans for the conservation and sustainable use of biological resources That is where this book fills the gap by discussing the significant development of new products and methodologies for sustainable utilization of these resources This book also unveils a world of novel bioactive molecules from medicinal plants and the marine ecosystem and explains how drug design pipelines can advance modern drug development The target audiences for this book include biodiversity researchers who are working on technology and bioresource management issues and faculty and students in the environment research areas and Biodiversity conservation

Plant Breeding Reviews, Volume 43 Irwin Goldman, 2019-10-07 Contents 1 Maria Isabel Andrade Sweetpotato Breeder Technology Transfer Specialist and Advocate 1 2 Development of Cold Climate Grapes in the Upper Midwestern U S The Pioneering Work of Elmer Swenson 31 3 Candidate Genes to Extend Fleshy Fruit Shelf Life 61 4 Breeding Naked Barley for Food Feed and Malt 95 5 The Foundations Continuing Evolution and Outcomes

from the Application of Intellectual Property Protection in Plant Breeding and Agriculture 121 6 The Use of Endosperm Genes for Sweet Corn Improvement A review of developments in endosperm genes in sweet corn since the seminal publication in Plant Breeding Reviews Volume 1 by Charles Boyer and Jack Shannon 1984 215 7 Gender and Farmer Preferences for Varietal Traits Evidence and Issues for Crop Improvement 243 8 Domestication Genetics and Genomics of the American Cranberry 279 9 Images and Descriptions of Cucurbita maxima in Western Europe in the Sixteenth and Seventeenth Centuries 317

Strigolactones Tariq Aftab, Kaiser Iqbal Wani, 2025-02-11 This book is a comprehensive guide to strigolactones role in plant biology growth and sustainable agriculture Strigolactones a fascinating and rapidly evolving class of plant hormones have garnered significant attention in plant biology over the past decade Initially discovered for stimulating the germination of parasitic plants strigolactones are now recognized as key regulators of numerous plant processes including growth development and response to environmental stresses Their multifaceted nature and wide ranging impact on plant physiology make strigolactones a critical study area for researchers aiming to enhance crop yield resilience and overall agricultural productivity This edited volume provides a comprehensive overview of the current state of knowledge on strigolactones exploring their biosynthesis signaling mechanisms and practical applications in agriculture The book collects contributions from leading experts in the field offering a diverse and in depth perspective on the various roles that strigolactones play in plant biology The chapters in this volume cover a broad spectrum of topics from the molecular and genetic basis of strigolactone biosynthesis to their interactions with other phytohormones and environmental factors The book examines the regulatory functions of strigolactones in plant architecture including shoot branching root development and leaf senescence as well as their involvement in stress responses such as drought salinity and pathogen attack Also highlighted are recent advancements in understanding strigolactone signaling pathways and the potential for genetic engineering to manipulate these hormones for crop improvement Audience Plant biologists agronomists horticulturists and agriculture industry professionals studying plant development to address agricultural challenges

Amino Acids in Plant Protection Muhammad Bilal Hafeez, Abdul Wahid, Muhammad Farooq, Noreen Zahra, 2025-09-01 Amino Acids in Plant Protection Mechanisms Metabolism and Coordination highlights the increasingly evident importance of amino acids in plant development and stress defense addressing the needs of basic and applied plant scientists around the world It provides the only comprehensive overview of the general direction of amino acid metabolism and genetic regulation under abiotic stress conditions presenting a complete map of all currently known enzymatic steps involved in amino acid synthesis and degradation including the initial steps leading to the synthesis of secondary metabolites Higher plants are sessile and therefore cannot escape hostile environmental conditions that are a constant threat throughout their lifecycle Unfavorable growth conditions such as extreme temperatures drought flood and contamination of soils with high salt concentrations are considered the major abiotic environmental stressors that can not only limit plant growth and development but also

determine the geographic distribution of plant species and directly affect agronomical yield Explores amino acids in a range of environmental conditions to enable accurate assessment and response Presents comprehensive insights into the practical application of amino acids for specific stress scenarios Provides in depth details of metabolic and signaling functions of amino acids

California Agriculture ,2024-04 **Crop Exploration and Utilization of Genetic Resources** Shunjing Xie,1987 Rachis ,1987 Plant Breeding Abstracts ,1999 *Bibliography of Agriculture* ,1998 Noticiario de Recursos Fitogenéticos ,1978 **Barley Genetics III** Horst Gaul,1976 Collaboration on Genetic Resources ,1989 World germplasm collection status reports and potentials germplasm exploration and collection evaluation documentation exchange quarantine and conservation use and impact of germplasm in crop improvement in India **Agrindex** ,1995

Proceedings of the XVII International Grassland Congress New Zealand Grassland Association,1993

Bibliography of Agriculture with Subject Index ,1994 *Plant Genetic Resource Management in the Tropics* ,1994

Diversity ,1989 **Agronomy Abstracts** ,1983 Includes abstracts of the annual meetings of the American Society of Agronomy Soil Science Society of America Crop Science Society of America of its Agronomic Education Division

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