Exploration, Identification and Utilization of Barley Germplasm

Description: 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

Contents:

Domestication of wild barley and improvement of cultivated barley
Malt barley quality improvement and germplasm utilization
Food barley quality improvement and germplasm utilization
Feed barley quality improvement and germplasm utilization
Functional chemical composition and germplasm utilization
Exploration and utilization of salt tolerant barley germplasm
Exploration and utilization of drought tolerant barley germplasm
Exploration and utilization of waterlogging tolerant barley germplasm
Exploration and utilization of acid soil tolerant barley germplasm
Exploration and utilization of low temperature tolerant barley germplasm
Application of Omics in identification of barley germplasm
Focused Identification of Germplasm Strategy (FIGS) for exploration of barley germplasm
Create barley germplasm through mutation

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