Call for Book Chapters/Research Papers for Edited Books

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Identification of Tea Leaf Disease Using Deep Convolution Neural Network

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Call for Chapters

Maize Breeding: From Conventional Breeding to Synthetic Biology Approaches

Aims and Scope:

The aim of this book is to provide a comprehensive and up-to-date exploration of maize breeding, spanning from historical methodologies to cutting-edge synthetic biology approaches. By delving into classical and modern techniques, genomic insights, and ethical considerations, the book aims to equip researchers, students, and professionals with a deep understanding of the evolving landscape of maize breeding.This book comprehensively covers the historical development of maize breeding, spotlighting pivotal milestones and the evolution of methodologies. It delves into traditional breeding techniques and their contributions to improving maize varieties, examining the process of selecting and enhancing desirable phenotypic traits through conventional breeding. The intricacies of the maize genome and their implications for breeding programs are investigated, along with a discussion on the quantitative genetic principles underlying maize traits and their relevance in breeding. The book provides an overview of contemporary techniques in conventional breeding, emphasizing recent advancements, and explores the diverse genetic resources available for maize breeding. Additionally, it focuses on strategies and innovations in breeding for drought and salinity resilience in maize, detailing the role of molecular markers and their application in marker-assisted selection. The impact of genomic sequencing on maize breeding, including revolutionary advancements, is examined, as well as the application of CRISPR technology in editing the maize genome for improved traits. The emerging field of synthetic biology and its potential in engineering maize for future agricultural challenges is explored, along with discussions on ideotype breeding and the crafting of custom traits using advanced technologies. The book also covers the evolution of disease-resistant maize varieties, spanning classical breeding to genetic engineering approaches, and explores innovative strategies for enhancing pest resistance in maize breeding programs. It addresses the challenges of climate change and how maize breeding can contribute to developing climate-ready varieties. Ethical considerations associated with the adoption of synthetic biology in maize breeding are discussed, and the book concludes by examining current challenges, future prospects, and the evolving landscape of maize breeding

List of Topics:

- The Historical Tapestry: Maize Breeding through the Ages
- Classical Methods in Maize Improvement
- Phenotypic Alchemy: Selecting for Desirable Traits in Maize
- Insights to Maize Genome Dynamics
- Quantitative Genetics: The Multifaceted Nature of Maize Traits
- Modern Techniques in Conventional Maize Breeding & Recent Advances
- Maize Genetic Resources and Diversity
- Maize Breeding for Resilience to Drought and Salinity
- Molecular Markers and Marker-Assisted Selection in Maize
- Genomic Revolution: Maize Breeding in the Age of Sequencing
- CRISPRing Corn: Genome Editing in Maize Improvement
- Synthetic Biology Toolbox: Engineering Maize for the Future
- Designer Maize: Crafting Custom Traits for Ideotype Breeding
- Disease-Resistant Maize Varieties: From Classical Breeding to Genetic Engineering
- Innovations in Maize Pest Resistance
- Climate-Ready Corn: Adapting Maize to a Changing Environment
- Ethical Considerations: Navigating the Landscape of Synthetic Biology
- Harvesting Tomorrow: Maize Breeding Challenges and Future Prospects

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