

Book Title (ID 2024_11)

Integrative Mulberry Research: Genetics, Cultivation and Economic Potential

About the Book

It delves into the multifaceted world of mulberry cultivation, spotlighting its genetic diversity, advanced breeding techniques and biotechnology applications. This comprehensive guide explores the development of high-yielding varieties (HYV) through modern breeding methods aimed at enhancing both quality and productivity. The book addresses critical challenges such as biotic and abiotic stresses, offering insights into innovative solutions for disease resistance and environmental resilience. It highlights the economic significance of mulberry as a cornerstone of sericulture, emphasizing its potential in the global market. Readers will gain a thorough understanding of the genetic underpinnings of mulberry, advanced cultivation practices and the latest advancements in biotechnology that promise to revolutionize the industry. This essential resource provides valuable knowledge for researchers, agronomists and entrepreneurs, paving the way for sustainable growth and economic development in mulberry cultivation. Through detailed chapters and cutting-edge research, the book serves as a vital reference for those aiming to harness the full potential of mulberry, ensuring its role in the future of agricultural innovation and economic prosperity.

Theme outlines but not limited to:

Theme 1: Introduction to Mulberry: History and Significance

Theme 2: Botany of Mulberry: Morphology and Taxonomy

Theme 3: Ecological and Ecophysiological Aspects of Mulberry

Theme 4: Mycorrhizal Interactions in Mulberry

Theme 5: Mulberry Development in Relation to Other Organisms

Theme 6: Molecular Aspects of Mulberry: RAPD Analysis

Theme 7: SSR Markers in Mulberry Research

Theme 8: Cytological Studies in Mulberry: Techniques and Findings

Theme 9: Genome Sequencing in Mulberry: Current Status

Theme 10: Propagation Techniques for Mulberry: Traditional and Modern Methods

Theme 11: Mulberry Production: Best Practices and Innovations

Theme 12: Phytochemical Constituents of Mulberry: An Overview

Theme 13: Pharmacological Activities of Mulberry: Recent Findings

Theme 14: Human Health Benefits of Mulberry Consumption

Theme 15: Economic Importance of Mulberry: A Global Perspective

Theme 16: Traditional Medical Uses of Mulberry

Theme 17: Global Perspectives on Mulberry Cultivation

Theme 18: Future Approaches in Mulberry Research and Cultivation

Theme 19: Mulberry and Biotic Stresses: Management and Mitigation

Theme 20: Abiotic Stresses in Mulberry: Challenges and Solutions

Theme 21: Botanical Features of Mulberry: An In-Depth Analysis

Theme 22: Economic Significance of Mulberry: Current Trends

Theme 23: Cultivation Practices for Mulberry: Regional Variations

Theme 24: Utilization of Mulberry: From Farm to Industry

Theme 25: Economic Benefits of Mulberry: Case Studies

Theme 26: Mulberry Breeding for Higher Leaf Productivity

Theme 27: Genome Analysis in Mulberry: Achievements and Challenges

Theme 28: Relationship Between Genome Size and Ploidy Level in Mulberry

Theme 29: Transcriptomics in Mulberry: Identifying Trait-Specific Genes

Theme 30: Proteomics in Mulberry: Techniques and Applications

Theme 31: Importance and Current Status of DUS Testing in Mulberry

Theme 32: Molecular Diagnostics of Soil-Borne Diseases in Mulberry

Theme 33: Foliar Diseases of Mulberry: Molecular Approaches

Theme 34: Transgenic Mulberry for Stress Tolerance: Progress and Prospects

Theme 35: Application of Mulberry By-Products in Medicine

Theme 36: Medical Uses of Mulberry Silkworm By-Products

Theme 37: Green Synthesized Nanoparticles in Mulberry Production

Theme 38: Sustainable Mulberry Production: Trends and Opportunities

Theme 39: Future Perspectives in Mulberry Genomic Research

Theme 40: Packaging and Practices in Mulberry Cultivation

Theme 41: New Promising Varieties of Mulberry

Theme 42: Pest Management in Mulberry Cultivation

Theme 43: Diseases of Mulberry Plants: Identification and Control

Theme 44: Ecophysiology of Mulberry: Water and Nutrient Use Efficiency

Theme 45: Integrative Approaches to Mulberry Breeding

Theme 46: Technological Advances in Mulberry Propagation

Theme 47: Mulberry Cultivation in Marginal Lands: Potential and Practices

Theme 48: Climate Change and Its Impact on Mulberry Cultivation

Theme 49: Genetic Diversity in Mulberry: Conservation and Utilization

Theme 50: Policy and Regulatory Frameworks for Mulberry Cultivation

****Note:** Chapter title may be modified or new chapter may also be proposed by the author.

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Book Chapter may be submitted through e-mail: bioticabooks@gmail.com or online portal

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