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Book Title (ID 2024_09)

Biotechnological and Molecular Approaches in the Management of Biotic Stress in Plants

About the Book

This comprehensive exploration delves into the realm of biotechnology and molecular biology, showcasing innovative strategies aimed at bolstering plant resilience against pests, pathogens, and other biotic challenges. It offers a nuanced examination of advanced techniques and methodologies employed to mitigate the detrimental impacts of biotic stressors on plant species. From targeted genetic modifications to precision breeding techniques, this title illuminates the forefront of research and practical applications shaping the future of plant biotic stress management.The book will play a pivotal role in advancing knowledge, facilitating learning and fostering innovation in the fields of plant science, biotechnology and molecular biology, making it indispensable for researchers.

Chapters outlines but not limited to:

Chapter 1: Harnessing Biotechnology for Pest Control
Innovative tools to combat agricultural pests.

Chapter 2: Transgenic Triumph: Crops with Built-In Defenses
Revolutionizing insect resistance through genetic transformation.

Chapter 3: Super Enemies: Enhancing Natural Predators
Boosting the effectiveness of natural pest controllers.

Chapter 4: Next-Gen Biopesticides: Genetic Enhancement
Transforming biopesticides for superior pest management.

Chapter 5: Marker-Assisted Marvels: Precision in Pest Resistance
Selecting the best through molecular markers.

Chapter 6: Decoding Genes: Sequencing and Function Analysis
Unveiling the secrets of plant-insect interactions.

Chapter 7: Pathways to Protection: Metabolic Insights
Understanding plant metabolism for better pest resistance.

Chapter 8: Switching Defenses: Inducible Resistance Mechanisms
Activating plant defenses on demand.

Chapter 9: Molecular Diagnosis: Identifying Pests and Allies
Precision tools for identifying insect pests and natural enemies.

Chapter 10: Crafting New Weapons: Developing Insecticides
Innovative molecules for modern pest control.

Chapter 11: Sterility Solutions: Dominant Repressible Lethal Systems
Genetic strategies to produce sterile insects.

Chapter 12: Fortifying Crops: Biotechnological Resistance Enhancement
Boosting plant resilience against pests.

Chapter 13: Resistant Roots: Phenotyping for Defense
Identifying and breeding resilient plants.

Chapter 14: Gene Silence: RNAi in Pest Management
Harnessing RNA interference for targeted pest control.

Chapter 15: Fruit Fly Genomics: Insights from Tephritid Research
Exploring the genetics and distribution of fruit flies.

Chapter 39: Stress Shield: Molecular Approaches
Molecular strategies to manage plant stress.

Chapter 40: RNAi Tech: Cutting-Edge Pest Control
Exploring RNA interference for innovative pest management.

Chapter 41: Protease Protection: Inhibitors in Defense
Using proteinase inhibitors to protect plants.

Chapter 42: Hormone Hijinks: Analogues and Inhibitors
Manipulating insect hormones for pest control.

Chapter 43: Plant Defenders: Phyto-Antifeedants
Natural compounds deterring insect pests.

Chapter 44: Chemical Communication: Chemoecology
Understanding plant-insect chemical interactions.

Chapter 45: Bioinformatics Brilliance: Data-Driven Decisions
Leveraging bioinformatics for pest management.

Chapter 46: Nano Innovations: Tiny Tools for Big Problems
Nanotechnology in the fight against pests.

Chapter 47: Ethical Excellence: Safety in Biotech
Balancing innovation with ethical considerations.

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

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CHAPTER SUBMISSION PROCEDURE:

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