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Biotechnological Approaches For Pest Management

Presenting alternative strategies for alleviating biotic stresses, Biotechnological Approaches for Pest Management and Ecological Sustainability explores how the modern tools of biotechnology can be used in pest management for sustainable crop production, the biosafety of transgenic crops, and

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environmental conservation.

Biotechnological Approaches for Pest Management and ...

Due to increasing problems occurring from massive applications of pesticides, such as insect resistance to pesticides, the use of biotechnological tools to minimize losses from insect pests has become inevitable. Presenting alternative strategies for alleviating biotic stresses, Biotechnological Approaches for Pest Management and Ecological Sustain

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Biotechnology in the context of insect pest management can be defined as the controlled and deliberate manipulation of biological systems to achieve efficient insect pest control. Living organisms have evolved an enormous spectrum of biological capabilities and by choosing appropriate organisms with specific capability, it is possible to obtain meaningful control of such

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insect pest species.

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Biotechnological Approaches for the Control of Insect Pests in Crop Plants 271 Transgene Source and Mode of Action Example of use Biotin binding proteins (avidin and streptavidin) Biotin is an essential vitamin for insects. It functions as a covalently-bound cofactor in various carboxylases, which have major roles in

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Biotechnological Approaches for the Control of Insect Pests in Crop Plants 1. Introduction. Each year billions of dollars are spent worldwide on insect control in agriculture [1]. Despite this... 2. The use of genetically modified plants for control of lepidopteran insects. As mentioned ...

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Plant Stress and Biotechnology - Hindawi ...

Pest management by modifying insect behaviour: PDF unavailable: 21: Use of sex pheromones in pest management: PDF unavailable: 22: Use of attractants and repellants in pest management: PDF unavailable: 23: Pest management through radiation technology - Principles: PDF unavailable: 24: Sterile Insect Technique - case studies: PDF unavailable: 25

NPTEL :: Agriculture - NOC: Integrated Pest Management (IPM)

Biotechnological approaches to develop insect resistant plants began long ago, and commercial application started in 1996 with success of transgenic *Bacillus thuringiensis* (Bt) crops (James, 2008). This chapter covers the issues ranging from insect-host plant resistance to the application of molecular approaches for pest management.

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Conclusion Biotechnological approaches play important role in insect-pest management. The efficacy of bio-control agents can be increased through rDNA technology. DNA barcoding can help in quick and accurate identification. DNA fingerprinting helps for identification of biotypes and genetic changes in Insect-pest. 48.

Biotechnological approaches in entomology

Biotechnology provides ample opportunities for effective and targeted insect-pest control through critical analysis and engineering of biological processes. This chapter describes widely accepted...

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Hari C Sharma, "Biotechnological Approaches for Pest Management and Ecological Sustainability" 2008 | pages: 548 |

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Genetic engineering approaches, such as transgenics and RNA interference (RNAi), are potentially useful for the control of whiteflies. Transgenic plants harboring insecticidal toxins/lectins developed via nuclear or chloroplast transformation are a promising vehicle for whitefly control.

Biotechnological interventions for the sustainable ...

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In the wheat crop, biotechnological approaches are yielding remarkable results in the area of molecular variability for pathogens, genome mapping and characterization, production of virus-free plants, transgenic plants with improved quality, and stress-tolerant traits plus breeding for elite traits up to micronutrient levels.

Wheat Responses to Stress and Biotechnological Approaches ...

Entomopathogenic agents are microorganisms that play an important role in the biological control of pest insects and are eco-friendly alternatives to chemical control. They consist of viruses (non-cellular organisms), bacteria (prokaryotic

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organisms), fungi and protists (eukaryotic organisms), and nematodes (multicellular organisms).

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