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Titolo	Design of Intelligent Systems Based on Fuzzy Logic, Neural Networks and Nature-Inspired Optimization / Patricia Melin, Oscar Castillo, Janusz Kacprzyk Editors
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2. Record Nr.	UNINA9910633968703321
Titolo	Cotton / / edited by Ibrokhim Y. Abdurakhmonov
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ISBN	1-80355-709-5
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Nota di contenuto	1. Introductory Chapter: Global Cotton Research Development Trends for the Past Five Years - Key Directions. 2. Studies on Colored Cotton: Biochemical and Genetic Aspects. 3. Bioinformatics Tools and Genomic Resources Available in Understanding the Structure and Function of <i>Gossypium</i> . 4. Transcriptome Analysis Using RNA Sequencing for

Finding Genes Related to Fiber in Cotton: A Review. 5. Transgenic Technology Can Accelerate Cotton Breeding: Transgenic ScALDH21 Cotton Significantly Improve Drought Tolerance in Southern and Northern Xinjiang. 6. Cotton Breeding in the View of Abiotic and Biotic Stresses: Challenges and Perspectives. 7. Sustainable and Effective Management Strategies in Cotton Cultivation. 8. Pest Insects and Their Biological Control. 9. Influence of Abiotic Factors on Whitefly Population Abundance in Cotton. 10. Machinery for Plant Protection in Cotton Crop. 11. Development and Evaluation of an Extruded Balanced Food for Sheep Based on Cottonseed Meal (*Gossypium hirsutum*). 12. Cotton Based Cellulose Nanocomposites: Synthesis and Application.

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#### Sommario/riassunto

This book discusses the latest advances in cotton genetics and the biochemistry, physiology, bioinformatics, and genomics of the cotton plant. Chapters cover genomics and transcriptomics approaches to characterization and tagging of essential genes, novel transgenic tools to accelerate breeding against climate issues, abiotic and biotic stress pressures, biological control and machinery tools for cotton plant protection, cotton seed meal production, and sustainable and effective farming in the era of climate change and technological advance.

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