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Microbial strategies for crop improvement (eBook, 2009)

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Soil microbial communities play an

important role in supplying essential nutrients to plants by decomposing various organic matters. Composition, structure and functions of microb  
Microbial Strategies for Crop Improvement microbial communities play an important role in crop improvement in different agro-ecosystems by decomposing various organic matters, but due in part to the scarcity of convenient methods for exploration, our understanding of the different degrees and dynamics of microbial community including structure and

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approaches for  
crop improvement  
in both  
conventional and  
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where quality and  
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trajectory for crop yields is insufficient to nourish the world's population by 2050. Greater and more consistent crop production must be achieved against a backdrop of climatic ...

*Crop Improvement Through Microbial Technology: A Step ...*

Rani A., Goel R. (2009) Strategies for Crop Improvement in Contaminated Soils Using Metal-Tolerant Bioinoculants. In: Khan M., Zaidi A., Musarrat J.

(eds) *Microbial Strategies for Crop Improvement*. Springer, Berlin, Heidelberg

*Genetic strategies for improving crop yields / Nature*

*Microbial Strategies For Crop Improvement*

*Microbial Strategies for Crop Improvement - Javed Musarrat ...*

Biotechnology mainly deals with the genetic manipulations for crop improvement. Microorganisms naturally have several beneficial genes that can be transferred in crop plants through genetic engineering techniques. *Agrobacterium tumefaciens*-mediated

gene transfer is a very common practice for the transfer of genes from microorganism to plants. Through genetic engineering, we can improve the crop plant characters like drought resistance and disease resistance.

*Soil Health – A Precondition for Crop Production ...*

Crop Improvement through Microbial Biotechnology explains how certain techniques can be used to manipulate plant growth and development, focusing on the cross-kingdom transfer of genes to incorporate novel phenotypes in plants, including the

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utilization of  
microbes at every  
step, from cloning  
and characterization,  
to the production of  
a genetically  
engineered plant.  
This book covers  
microbial  
biotechnology in  
sustainable  
agriculture, aiming  
to improve crop  
productivity under  
stress conditions.