

## Microbial Strategies For Crop Improvement

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### Microbial Strategies for Crop Improvement

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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

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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 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.

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Microbial Strategies for Crop Improvement. Editors: Khan, Mohammad Saghir, Zaidi, Almas, Musarrat, Javed (Eds.) Free Preview. Gives balanced and up-to-date information on the potential application of microbes in crop improvement; Buy this book eBook 154,69 € ...

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### Microbial Strategies For Crop Improvement

This book presents the multidisciplinary nature and the many fascinating aspects of microbiological approaches for crop improvement in both conventional and stressed soils where quality and safety are the key concerns. The major goal is to provide a cross-section of the latest accomplishments and envisaged future directions in these areas.

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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 functional

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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.

### Microbial Strategies for Crop Improvement 2009, Mohammad ...

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