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Nanotechnology is a rapidly evolving field with the potential to take forward the agriculture and food industry with new tools which promise to increase food production in a sustainable manner and to protect

crops from pests. Such expectations are coupled with some uncertainties about the fate of nanomaterials in the agro-environment.

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This book presents a holistic view of the complex and dynamic responses of plants to nanoparticles, the signal transduction mechanisms involved, and the regulation of gene expression. Further, it addresses the photosynthesis of nanoparticles, the role of nanoparticles in the antioxidant systems of plants and agriculture, the beneficial and harmful effects of nanoparticles on plants, and the ...

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Nanotechnology has many uses in all stages of production, processing, storing, packaging and transport of agricultural products. Nanotechnology will revolutionize agriculture and food industry such as in case of farming techniques, enhancing the ability of plants to absorb nutrients, disease detection and control pests.

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Current areas of focus of nanotechnology development in the agricultural industry include development of environmentally conscious nanofertilizers to provide efficient ion, nutrient delivery into plant cells, and plant gene transformations to produce plants with desirable genes such as drought resistance and accelerated growth cycles.

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Nanotechnology applications are currently being researched, tested and in some cases already applied across the entire spectrum of food technology, from agriculture

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The implementation of nanotechnology in agriculture requires also the development of techniques capable of quantifying engineered nanoparticles at the concentrations present in different environmental compartments (Sadik et al., 2014). Currently available methods are not always adequate to understand the dynamics of nanomaterials in the environment, their interactions with target and non-target ...

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