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With the advances in molecular biology, major areas of interest in plant biotechnology are plant tissue culture, plant genetic engineering, and plant molecular marker-assisted breeding. Conventional and rDNA technology help in improving microbial inoculants to be used to control plant pests, as fertilizer supplements, and to aid in atmospheric nitrogen fixation.

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Advances in Photosynthesis Research Proceedings of the
VIth International Congress on Photosynthesis, Brussels,
Belgium, August 1-6, 1983 Volume 2. Series: Advances in
Agricultural Biotechnology, Vol. 2. Sybesma, C. (Ed.) 1984

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biotechnology, which is gaining in importance, applies in three
major areas: the control of plant growth and development, the

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protection of plants against environmental and biotic stresses, and the expansion of ways by which specialty foods, Page 4/9

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Advantages of using biotechnology in agriculture. The use of biotechnology in the field of agriculture does not only allow for crops to grow more and under more difficult circumstances, it can literally make them better. In other words, science allows us to introduce specific genes to increase the nutritional value of crops.

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The respective chapters explore emerging areas of plant biotechnology such as RNAi technology, fermentation technology, genetic engineering, nanoparticles and their applications, climate resilient crops, bio-films, bio-plastic, bio-remediation, flavonoids, antioxidants etc. All chapters were written by respected experts and address the latest developments in plant biotechnology that are of industrial importance, especially with regard to crop yields and post-harvest strategies.

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Benefits : Following are a few examples of benefits resulting from applying currently available genetic engineering techniques to agricultural biotechnology. Increased crop productivity Biotechnology has helped to increase crop productivity by introducing such qualities as disease resistance and increased drought tolerance to the crops. , researchers can select genes for disease resistance from other species and transfer them to important crops.

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Plant biotechnology applies to three major areas of plants and their uses: (1) control of plant growth and development; (2) protection of plants against biotic and abiotic stresses; and (3)

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expansion of ways by which specialty foods, biochemicals, and pharmaceuticals are produced. The topic of. Recent Advances in Plant Biotechnology | Ara Kirakosyan | Springer.

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(1)Cornell Research Foundation, 395 Pine Tree Road Suite 310, Cornell University, Ithaca, NY 14850, USA.

klh22@cornell.edu Recent advances in agricultural biotechnology have enabled the field of plant biology to move forward in great leaps and bounds.

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USDA supports the safe and appropriate use of science and technology, including biotechnology, to help meet agricultural challenges and consumer needs of the 21st century. USDA plays a key role in assuring that biotechnology plants and products derived from these plants are safe to be grown and used in the United States.

Biotechnology | USDA

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In Research Advances in Plant Biotechnology the potential of high technological approaches in plant genetic engineering as well as their practical applications are considered. The efficiency of plant genetic transformation remains a challenge due to limitations of intracellular transportation of genes and other biomolecules through the cell wall, damaging of cells/tissues, gene disruption, and high-cost of application of the transformation methods.

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