

Biotechnology - Plant Biotechnology (Transgenic plants, Herbicide Resistant Plants, Glyphosate Tolerant Plants, Sulphonylurea Tolerant Plants, Atrazine Tolerant Plants, Phosphinothricin Tolerant Plants, Bromoxynil Tolerant Plants, Insect Resistant Plants,

Description:

Plant biotechnology is a precise process in which scientific techniques are used to develop molecular and cellular based technologies to improve plant productivity, quality and health; to improve the quality of plant products; or to prevent, reduce or eliminate constraints to plant productivity caused by diseases, pest organisms and environmental stresses. It can be defined as human intervention on plant material by means of technological instruments in order to produce permanent effects, and includes genetic engineering and gene manipulation to obtain transgenic plants. Plant genetic engineering is used to produce new inheritable combinations by introducing external DNA to plant material in an unnatural way. The results are genetically modified plants (GMPs) or transgenic plants. The key instrument used in plant biotechnology is the plant tissue culture (PTC) technique which refers to the in vitro culture of protoplasts, cells, tissues and organs. Plant biotechnology in use today relies on advanced technology, which allows plant breeders to make precise genetic changes to impart beneficial traits to plants. The application of biotechnology in agriculture has resulted in benefits to farmers, producers and consumers. Plant biotechnology has helped make both insect pest control and weed management safer and easier while safeguarding plants against disease. The worldwide demand for food, feed and modern textile fibers can only be met in the future with the help of plant biotechnology. It has the potential to open up whole new business areas that will totally redefine the current market scope and perception.

For more details download PDF file.

Keywords: Plant Biotechnology, Biotechnology Industry in India, Opportunities in Biotechnology and Business, Commercialization of Plant Tissue Culture in India, Agricultural Biotechnology, Biotechnology Industry in India, Biotechnology in India, Plant Biotech, Plant Tissue Culture, Plant Biotechnology and Agriculture, Plant Biology & Plant Biotechnology, Profitable Biotechnology Business Ideas, Small Business Ideas in Plant Biotechnology Industry, How to Start Small Scale Plant Biotech Industry in India,

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