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Introduction to plant Biotechnology paper / B.sc.Ag. old paper , Plant biotch previous year paper

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Plant biotechnology has created unprecedented opportunities for the manipulation of biological systems of plants. To understand biotechnology, it is essential to know the basic aspects of genes and their organization in the genome of plant cells. This text on the subject is aimed at students.

This book has been written to meet the needs of students for biotechnology courses at various levels of undergraduate and graduate studies. This book covers all the important aspects of plant tissue culture viz. nutrition media, micropropagation, organ culture, cell suspension culture, haploid

culture, protoplast isolation and fusion, secondary metabolite production, somaclonal variation and cryopreservation. For good understanding of recombinant DNA technology, chapters on genetic material, organization of DNA in the genome and basic techniques involved in recombinant DNA technology have been added. Different aspects on rDNA technology covered gene cloning, isolation of plant genes, transposons and gene tagging, in vitro mutagenesis, PCR, molecular markers and marker assisted selection, gene transfer methods, chloroplast and mitochondrion DNA transformation, genomics and bioinformatics. Genomics covers functional and structural genomics, proteomics, metabolomics, sequencing status of different organisms and DNA chip technology. Application of biotechnology has been discussed as transgenics in crop improvement and impact of recombinant DNA technology mainly in relation to biotech crops.

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Basics; Laboratory organization; Sterilization techniques; Nutrition medium; Choice of the explant; Plant tissue culture; Seed culture; Micropropagation- meristem culture; Micropropagation- axillary bud proliferation; Micropropagation- adventitious regeneration; Micropropagation- organogenesis; Micropropagation- embryogenesis; Cell suspension; Secondary metabolite production in a cell suspension culture; Anther culture; Protoplast isolation and fusion; Biotechnology; SDS-PAGE electrophoresis of proteins; Isolation of DNA from plant tissues; Isolation an purification of plasmid DNA; Restriction enzyme digestion of DNA; Agarose gel electrophoresis; Preparation of competent cells, transformation of E. coil with plasmid DNA and ligation of insert DNA to a vector; Agrobacterium-mediated gene transfer; Biolistic method of transformation in plants; In vitro amplification of DNA by PCR: detection of transgenes; RAPD analysis; Microsatellite marker analysis; Southerm biotting; Southerm hybridization.

Designed to inform and inspire the next generation of plant biotechnologists Plant Biotechnology and Genetics explores contemporary techniques and applications of plant biotechnology, illustrating the tremendous potential this technology has to change our world by improving the food supply. As an introductory text, its focus is on basic science and processes. It guides students from plant biology and genetics to breeding to principles and applications of plant biotechnology. Next, the text examines the critical issues of patents and intellectual property and then tackles the many controversies and consumer concerns over transgenic plants. The final chapter of the book provides an expert forecast of the future of plant biotechnology. Each chapter has been written by one or more leading practitioners in the field and then carefully edited to ensure thoroughness and consistency. The chapters are organized so that each one progressively builds upon the previous chapters. Questions set forth in each chapter help students deepen their understanding and facilitate classroom discussions. Inspirational autobiographical essays, written by pioneers and eminent scientists in the field today, are interspersed throughout the text. Authors explain how they became involved in the field and offer a personal perspective on their contributions and the future of the field. The text's accompanying CD-ROM offers full-color figures that can be used in classroom presentations with other teaching aids available online. This text is recommended for junior- and senior-level courses in plant biotechnology or plant genetics and for courses devoted to special topics at both the undergraduate and graduate levels. It is also an ideal reference for practitioners.

Introduction and techniques; Introductory history; Laboratory organisation; Media; Aseptic manipulation; Basic aspects; Cell culture; Cellular totipotency; Somatic embryogenesis; Applications to plant breeding; Haploid prodution; Triploid production; In vitro pollination and fertilization; Zygotic embryo culture; Somatic hybridisation and cybridisation; Genetic transformation; Somaclonal and gametoclonal variant selection; Application to horticulture and forestry; Production of disease-free plants; clonal propagation; General applications; Industrial applications: secondary metabolite production; Germplasm conservation.

In ovo electroporation is an epoch-making achievement in the study of developmental biology. With this method, experiments can be carried out in gain and loss of function in desired tissue at any desired stage in chick embryos. Introduction of a tetracycline-regulated gene expression system and a transposon system has further extended the potential of the method, making it possible to obtain long-term expression and to turn on and off a gene of

interest. It is now applied to mice, aquatic animals, and even to plants for the study of developmental biology and for other purposes. In this book, the application of electroporation in many embryonic tissues and organs is introduced, with some chapters that deal with gene transfer in adults. Sonoporation, another useful tool, using ultrasonic waves instead of electric currents, for gene transfer to mesenchymal tissues is also introduced.

Plant Biotechnology presents a balanced, objective exploration of the technology behind genetic manipulation, and its application to the growth and cultivation of plants. The book describes the techniques underpinning genetic manipulation and makes extensive use of case studies to illustrate how this influential tool is used in practice.

Besides, recently molecular biology has assumed great importance with respect to plant biotechnology. The present book amalgamates all three aspects into one, practical applications of various techniques being the need of the hour. It discusses micropropagation studies on several crop plants, molecular basis of understanding various life processes including molecular basis of somatic embryogenesis and other physiological and biochemical processes having significant biotechnological applications. It also includes in vitro studies of some important plants like Aloe vera, Simmondsia chinensis, Anacyclus pyrethrum and Crataeva nurvala, Arachis hypogaea L., Phoenix dactylifera, Dendrocalamus asper, Asparagus adescendens Roxb., natural products of plant origin with their therapeutic potential and biotechnological production, genome analysis of crop plants with future applications in biotechnology etc.