



A PRACTICAL MANUAL ON
Plant
Biotechnology

Dr. Yogendra Singh

 *Rubicon*
Publications

Plant Biotechnology Lab Manual

Lei Huang



Plant Biotechnology Lab Manual:

Plant Biotechnology: Laboratory Manual For Plant Biotechnology Chawla, 2004 This practical laboratory manual has been designed to familiarise students with protocols on plant tissue culture and recombinant DNA technology It deals with the basic aspects on introduction laboratory organization sterilization techniques nutrition medium and the choice of explant It also has exercises on plant tissue culture seed culture embryo culture meristem culture node culture axillary bud proliferation etc A part of the manual also deals with recombinant DNA technology

A Laboratory Manual Of Plant Biotechnology (2Nd Ed.) S. S. Purohit, 2004 Plant Biotechnology : Laboratory Manual For Plant Biotechnology H.S. Chawla, 2004

A Laboratory Manual of Plant Biotechnology S. S. Purohit, 2006 *Plant Biotech Lab Manual* Carl Tant, 1993

Plant Biotechnology C. C. Giri, Archana Giri, 2013-12-30 Plant Biotechnology Practical Manual covers most of the important areas of present day plant biotechnology beginning from plant tissue culture media preparation to transgenic plant production and related molecular biology protocols It is meant for both students who are being introduced to plant biotechnology and those wanting to do advance research in this field It would also be helpful for teachers in formulating their own practical protocols using different model plant systems This book includes the principles theoretical background and the basis for each protocol supported by the authors own research findings This approach has been adopted to help the learners and researchers modify their procedures to develop their own protocols and methods utilizing the proven protocols included in the book

Plant Biotechnology and Molecular Biology : A Laboratory Manual M.S. Punia, 2018-01-01 The book A Laboratory Manual of Plant Biotechnology and Molecular Biology comprises of workable laboratory protocols for a large number of techniques related to plant biotechnology genetic engineering and molecular biology This includes plant cell and tissue culture callus and suspension culture anther culture ovule culture embryo culture Cryopreservation Isolation of Plant protoplasts Protoplast culture and regeneration production of somatic hybrids through protoplast fusion gene transformation using Agrobacterium as vector direct gene transfer using biolistic gun Isolation of plant and organelles DNA construction and screening of genomic DNA libraries Molecular markers like RFLP RAPD SCARS and CAPS DNA sequencing RNA isolation and northern blotting Isolation of proteins and western blotting etc The manual is prepared with the objective to cater the needs of post graduate students as well as for scientists working in the disciplines of Plant Breeding Genetics Botany Plant physiology Biochemistry Plant Biotechnology Molecular Biology etc It gives an update on some well established methods and presents reliable protocols

Plant Biotechnology C.C. Giri, Archana Giri, 2007 Practical Manual covers most of the important areas of present day plant biotechnology beginning from plant tissue culture media preparation to transgenic plant production and molecular markers It is meant for both students who are being introduced to plant biotechnology and those wanting to do advance research in this field It would also be helpful for teachers in formulating their own practical protocols using different model plant systems This book includes the principles theoretical background and the basis for each protocol

supported by the authors own research findings This approach may help the learners and researchers to modify their procedures to develop their own protocols and methods utilizing the proven protocols included in the book Laboratory Manual on Biotechnology P. M. Swamy,2008 Plant Biotechnology Laboratory Manual for Plant Biotechnology Chawla H. S.,2005

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