Plant Cell Culture

A PRACTICAL APPROACH

SECOND EDITION

R. A. DIXON and R. A. GONZALES



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Introduction to Plant Tissue Culture M. K. Razdan, 2003 Introduction and techniques Introductory history Laboratory organisation Media Aseptic manipulation Basic aspects Cell culture Cellular totipotency Somatic embryogenesis Applications to plant breeding Haploid production 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 Zell- und Gewebekultur Gerhard Gstraunthaler, Toni Lindl, 2013-07-25 Dieses Lehr und Methodenbuch soll Studierenden und Wissenschaftlern der Biologie Medizin Pharmazie oder Biotechnologie sowie technischen Assistenten einen Einblick in die Zell und Gewebekultur vermitteln Die leicht nachvollziehbaren Man nehme Vorschriften machen den praktischen Wert des Buches aus Exemplarisch werden die wichtigsten Grundoperationen in der tierischen und pflanzlichen Zellkultur behandelt Der Info Anhang enth lt st chiometrische Rechenbeispiele ein Glossar und Lieferfirmen Adressen Gliederung Grundlagen der Zell und Gewebekultur Die Zelle und ihre Umgebung Routinemethoden zur Handhabung kultivierter Zellen Spezielle Methoden Pflanzenzellkultur Die 7

Auflage wurde vollst ndig berarbeitet und erscheint jetzt in farbigem Layout Neu sind die Kapitel Authentifizierung humaner Zelllinien mittels DNA Profiling und Serumfreie Zellkultur Erweitert wurden die Nachweismethoden fr Mycoplasmen Den Autoren ist es wichtig eine good cell culture practice zu propagieren und die Notwendigkeit einer st ndigen Qualit tskontrolle Plant Cell Culture. A Practical Approach. Ed. by R. A. Dixon. (Repr.). ,1991 bewusst zu machen <u>Culture: Theory and Practice</u> S.S. Bhojwani, M.K. Razdan, 1996-11-08 Since the publication of the first edition in 1983 several new and exciting developments have taken place in the field of plant tissue culture which forms a major component of what is now called plant biotechnology. The revised edition presents updated information on theoretical practical and applied aspects of plant tissue culture Each chapter has been thoroughly revised and as before is written in lucid language includes relevant media protocols and is profusely illustrated with self explanatory diagrams and original photographs This book includes three new chapters Variant selection Genetic Engineering and Production of Industrial Compounds and contains a complete bibliography and a glossary of terms commonly used in tissue culture literature This updated version proves to be an excellent text for undergraduate postgraduate students and teachers in various fields of plant sciences and a useful reference book for those interested in the application of any aspect of this aseptic technology Plant Propagation by Tissue Culture Edwin F. George, Michael A. Hall, Geert-Jan De Klerk, 2007-10-24 For researchers and students George's books have become the standard works on in vitro plant propagation For this the third edition of the classic work authors with specialist knowledge have been brought on board to cover the hugely expanded number of topics in the subject area Scientific knowledge has expanded rapidly since the second edition and it would now be a daunting task for a single author to cover all aspects adequately However this edition still maintains the integration that was characteristic of the previous editions The first volume of the new edition highlights the scientific background of in vitro propagation. The second volume covers the practice of micropropagation and describes its various applications Plant Cell and Tissue Culture Indra K. Vasil. Trevor A. Thorpe, 1994-06-30 Plant Cell and Tissue Culture gives an exhaustive account of plant cell culture and genetic transformation including detailed chapters on all major field and plantation crops Part A presents a comprehensive coverage of all necessary laboratory techniques for the initiation nutrition maintenance and storage of plant cell and tissue cultures including discussions on these topics as well as on morphogenesis and regeneration meristem and shoot tip culture plant protoplasts mutant cell lines variation in tissue cultures isogenic lines fertilization control cryopreservation transformation and the production of secondary metabolites Part B then proceeds into detail on the specific in vitro culture of specific crops including cereals legumes vegetables potatoes other roots and tubers oilseeds temperate fruits tropical fruits plantation crops forest trees and ornamentals Plant Cell and Tissue Culture is and is likely to remain the laboratory manual of choice as well as a source of inspiration and a guide to all workers in the field Manual For Primary Human Cell Culture, A (2nd Edition) Kee Woei Ng, Jan-thorsten Schantz, 2010-01-04 This manual is designed to serve as a practical guide to primary

human cell culture which is integral in both academic and industrial biotechnology research As in the first edition the content of the manual is not exhaustive but rather contains selected protocols for specific cell types from major tissue groupings in the body This improved second edition also includes a new section on stem cells and additional material on transfection It should serve as a foundation for individual researchers to experiment explore and establish niche protocols for their specific needs With its compact physical format that makes it portable and flexible for usage in a laboratory setting the manual will be a useful guide for all beginners in primary human cell culture work Fermentation von phototrophen Organismen zur Produktion von biotechnologischen Wertstoffen Stephan Kuhne, 2015-08-31 Die Kultivierung von verschiedenen Organismen in Photobioreaktoren ger t in j ngster Zeit immer st rker in den Fokus der Forschung da Licht bei vielen Stoffwechselprozessen eine Rolle spielen kann Dar ber hinaus sind viele phototrophe Organismen aufgrund ihrer aufwendigeren Kultivierung noch nicht so gut erforscht worden Daher wurden zwei unterschiedliche phototrophe Kultursysteme untersucht und im Hinblick auf die Produktion von biotechnologischen Wertstoffen optimiert Zum einen wurde am Beispiel der Herstellung der pharmazeutisch interessanten Vertreter aus der Gruppe der Triterpene aus Salvia officinalis untersucht welche Auswirkung Licht auf die Synthese der Triterpens uren Oleanol und Ursols ure hat Zum anderen wurde ein neuer emerser Photobioreaktor entwickelt mit dem es m glich ist terrestrische Organismen unter natur hnlichen Bedingungen zu kultivieren und ihr breites Spektrum an biologisch aktiven Substanzen zu erschlie en bzw deren Produktion gezielt zu steuern Dies wird anhand von terrestrischen Cyanobakterien demonstriert welche bislang bei der Produktion von biotechnologischen Wertstoffen kaum eine Rolle spielen Plant Tissue Culture Roberta H. Smith. 2013 Plant Tissue Culture Third Edition builds on the classroom tested audience proven manual that has guided users through successful plant culturing A tumefaciens mediated transformation infusion technology the latest information on media components and preparation and regeneration and morphogenesis along with new exercises and diagrams provide current information and examples The included experiments demonstrate major concepts and can be conducted with a variety of plant material that are readily available throughout the year This book provides a diverse learning experience and is appropriate for both university students and plant scientists Provides new exercises demonstrating tobacco leaf infiltration to observe transient expression of proteins and subcellular location of the protein and information on development of a customized protocol for protoplast isolation for other experimental systems Includes detailed drawings that complement both introductions and experiments Guides reader from lab setup to supplies stock solution and media preparation explant selection and disinfestations and experimental observations and measurement Provides the latest techniques and media information including A tumefaciens mediated transformation and infusion technology Fully updated literature

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absolvieren hat Diese Experimente sind in zwei Kategorien eingeteilt zuerst Demonstrations Experimente als in der Regel einfach auszuf hrende Versuche zur Veranschaulichung bestimmter physiologischer Sachverhalte Sie haben vor allem didaktischen Charakter und sind weitgehend deduktiv dargestellt Im Gegensatz dazu stellt die andere Kategorie Analytische Experimente vor fr die eine induktive Darstellungsweise gew hlt wurde Das Thema dieser Versuche ist als Problem formuliert und ihre Durchf hrung wird im Detail nur fr ein Grundexperiment dargestellt welches den prinzipiellen experimentellen Ansatz und die Methodenbeschreibung enth lt Mit diesen Anleitungen ist es dann m glich die entsprechenden physiologischen oder methodischen Fragestellungen selbst ndig zu bearbeiten **Plant Cell and Tissue** Culture for the Production of Food Ingredients Tong-Jen Fu, Gurmeet Singh, Wayne R. Curtis, 2012-12-06 Commercial development of cultured derived food ingredients has attracted interna tional interest As consumers have become more health conscious in recent years the de mand for natural food ingredients and disease preventative phytochemicals has increased tremendously Plant Cell and Tissue Culture provides an alternative method for controlled production of these products A wide range of food ingredients has been shown to be pro duced in culture Much progress has been made in advancing this technology to the point that large scale production has become possible This book is developed from the Symposium Plant Cell and Tissue Culture for Food Ingredient Production which was held on April 13 17 1997 at the American Chemical So ciety National Meeting in San Francisco CA In this book international experts in acade mia government and industry discuss current advances in the field of plant cell and tissue culture with special emphasis on its application for food ingredient production Topics re lated to various aspects of plant cell and tissue culture technology are discussed including overviews of recent advances in plant metabolic pathway studies process development for improving yields and bioreactor design and operation for large scale production Economic considerations and issues related to the commercial development of culture derived food in gredients are discussed Also included are the safety assessment schemes Plant Cryopreservation: A Practical Guide and regulatory frameworks set up by regulatory agencies around the world Barbara B.M. Reed, 2007-10-31 Cryopreservation has proven to be an important tool for the storage and conservation of plant genetic resources. This book is a unique resource for plant scientists providing more than 100 ready to use cryopreservation protocols for plant types from algae and bryophytes to a range of flowering plants It includes techniques for diverse plant parts such as dormant buds pollen and apical meristems and for cell types such as suspension and callus cultures Plant <u>Tissue Culture Manual - Supplement 5</u> K. Lindsey, 2014-11-14 This manual comprises a broad range of techniques of value to research workers in the fields of cell and molecular biology physiology plant breeding and propagation and genetic engineering A Practical Guide to Environmental Biotechnology Jayanta Kumar Patra, Gitishree Das, Swagat Kumar Das, Hrudayanath Thatoi, 2020-08-03 This textbook provides practical guidelines on conducting experiments across the entire spectrum of environmental biotechnology It opens with general information on laboratory safety rules and regulations as well as a description of various equipment commonly used in environmental laboratories It then discusses in detail the major experiments in basic and advanced environmental studies including the analysis of water and soil samples the isolation culture and biochemical characterization of microbes and plant tissue culture techniques and nutrient analyses Each chapter features detailed method sections and easy to follow protocols and offers guidance on calculations and formulas as well as illustrative flow charts to assist with troubleshooting for each experiment Given its scope the book is an invaluable aid for laboratory researchers studying environmental biotechnology and a rich source of information and advice for advanced undergraduates and graduates in the fields of environmental science and biotechnology Vetiveria Massimo Maffei,2002-01-17 Vetiveria is one of the most versatile genera in plant kingdom For example the species Vetiveria zizanoides produces oderous roots from which a precious essential oil is distilled and used in a variety of applications from perfumery to ethnopharmacology The same roots give the plant particular characteristics that make it a valuable natural barr

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