

A SIMPLE PROCEDURE FOR THE MANUAL ISOLATION AND IDENTIFICATION OF PLANT HETEROKARYONS

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SUMMARY

A simple procedure is described for the aseptic manual isolation of individual heterokaryons. Heterokaryons were identified with bright field illumination using an inverted microscope and isolated by means of a micro-manipulator and capillary pipette coupled to a specially constructed syringe. When cell suspension protoplasts were labelled with fluorescein isothiocyanate and fused with mesophyll protoplasts, the heterokaryons exhibited an apple green cytoplasmic fluorescence (from cell suspension protoplasts) and a red chloroplast fluorescence (from mesophyll protoplasts). By this double fluorescence procedure, these manually isolated heterokaryons, identified initially using brightfield could be confirmed as heterokaryons.

INTRODUCTION

A general scheme, capable of selecting somatic hybrids between two wild types species is desirable for plant breeding programmes. One of the major problems presently encountered is a lack of suitable mutants for complementation selection.

Fusion products of soybean suspension protoplasts have been identified after labelling them separately, prior to fusion with fluorescein isothiocyanate and rhodamine B [1]. Similarly, mesophyll protoplasts of *Nicotiana* species have been separately labelled with fluorescein isothiocyanate and rhodamine isothiocyanate. Fusion products showing the presence of both probes were detected [2]. In the case of mammalian cells, one cell type has been labelled with the laser dye, rhodamine 123 (a mitochondrial stain) and

*On leave from Department of Botany, Utkal University, Bhubaneswar-751004, India.
Abbreviation: FITC, fluorescein isothiocyanate.

Co2 Isolation Manual In Plants

Serdar Oztekin, Milan Martinov



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A Laboratory Manual on Rhipicephalus microplus Raquel Cossio-Bayugar, Estefan Miranda-Miranda, Sachin Kumar, 2023-05-03 Discussing all aspects connected with the scientific analysis of Rhipicephalus microplus this book covers tick classification and identification as well as methods of extracting natural products effective against ticks It also describes tick cell culture procedures tick acaricide resistance diagnostics and the identification of tick parasites and microorganisms from the host and the ticks fluids as well as the diagnosis of Babesia and Anaplasma in R microplus *Bergey's Manual® of Systematic Bacteriology* James T. Staley, Don J. Brenner, Noel R. Krieg, 2006-07-25 Includes a description of the Alpha Beta Delta and Epsilon proteobacteria 1256 pages 512 figures and 371 tables This large taxa include many well known medically and environmentally important groups Especially notable are Acetobacter Agrobacterium Aquospirillum Brucella Burkholderia Caulobacter Desulfovibrio Gluconobacter Hyphomicrobium Leptothrix Myxococcus Neisseria Paracoccus Propionibacter Rhizobium Rickettsia Sphingomonas Thiobacillus Xanthobacter and 268 additional genera **Natural Extracts Using Supercritical Carbon Dioxide** Mamata Mukhopadhyay, 2000-06-27 Synthesizing research from a wide variety of sources this work offers a convenient guide to a clean safe inexpensive non toxic non polluting solvent that performs better than most conventional solvents Natural Extracts Using Supercritical Carbon Dioxide reviews recent developments in the technology and its applications to the food flavor fragrance and pharmaceutical industries It outlines the many advantages that this method has over traditional methods like steam distillation solvent extraction and molecular distillation and it supports the popular trend toward the use of natural products in these industries *The Nucleic Acid Protocols Handbook* Ralph Rapley, 2008-06-29 A comprehensive treasury of all the key molecular biology methods ranging from DNA extraction to gene localization in situ needed to function effectively in the modern laboratory Each of the 120 highly successful techniques follows the format of the much acclaimed Methods in Molecular Biology Oao series providing an introduction to the scientific basis of each technique a complete listing of all the necessary materials and reagents and clear step by step instruction to permit error free execution Included for each technique are notes about pitfalls to avoid troubleshooting tips alternate methods and explanations of the reasons for certain steps all key elements contributing significantly to success or failure in the lab The Nucleic Acid Protocols Handbook constitutes today's most comprehensive collection of all the key classic and cutting edge techniques for the successful isolation analysis and manipulation of nucleic acids by both experienced researchers and those new to the field *Laboratory Manual on Biotechnology* P. M. Swamy, 2008 *Plant Molecular Biology — A Laboratory Manual* Melody S. Clark, 2013-11-27 The aim of this manual is to encompass a broad range of the latest plant molecular biology techniques However it is acknowledged that any manual will be read and hopefully used by a wide range of people with different levels of experience Hence the remit of the manual was widened to include a full range of basic molecular techniques so that novices do not have to consult several texts to enable the execution

of each major experiment The manual is divided into three main parts Part I Basic Molecular Techniques The reason behind this part is to provide a background knowledge of molecular techniques but also to reduce duplication in later chapters this is particularly true of the methods contained in Chap 1 All authors provided very detailed methods and often forgot that some of these would be covered earlier A particular favourite was DNA extraction methods where everyone managed to provide a slightly different variant My view was that it is far less confusing for the reader to be presented with one standard protocol and accompanying troubleshooting tips than to read a different version in each chapter In this way the basic techniques are addressed more in depth and my apologies to all authors for judicious use of the delete key RNA methodology is covered in Chapter 3 This proceeds from the fundamentals of extraction northern blotting etc to cDNA libraries

Bergey's Manual of Systematic Bacteriology David R. Boone, Richard W. Castenholz, 2012-01-13 Bacteriologists from all levels of expertise and within all specialties rely on this Manual as one of the most comprehensive and authoritative works Since publication of the first edition of the Systematics the field has undergone revolutionary changes leading to a phylogenetic classification of prokaryotes based on sequencing of the small ribosomal subunit The list of validly named species has more than doubled since publication of the first edition and descriptions of over 2000 new and realigned species are included in this new edition along with more in depth ecological information about individual taxa and extensive introductory essays by leading authorities in the field

A Laboratory Manual for the Isolation, Identification and Characterization of Avian Pathogens Louise Dufour-Zavala, 2008 Manual for the isolation identification and characterization of avian pathogens

Medicinal and Aromatic Crops Serdar Oztekin, Milan Martinov, 2014-02-25 Make sure your crops are market ready with the aid of harvest and post harvest mechanization Medicinal and Aromatic Crops presents harvest and post harvest mechanization methods for the profitable production of market ready medicinal crops This practical handbook includes photos detailed figures and schematic drawings of machines that

Laboratory Manual for Biotechnology

Verma, Ashish S./ Das Surajit & Singh Anchal, Laboratory Manual in Biotechnology Students

Transport in Plants III C.R. Stocking, U. Heber, 2012-12-06 The problems associated with the movement of water and solutes throughout the plant body have intrigued students of plants since Malpighi's conclusions in 1675 and 1679 that nutrient sap flows upward and downward in stems through vessels in both wood and bark Steven Hale's ingenious experiments on the movement of water in plants in 1726 and Hartig's observations of sieve tube exudation in the mid 19th century set the stage for continued intensive studies on long range transport in plants In spite of this interest for more than 200 years in the movement of solutes and water in plants it has only been within the last 20 to 30 years that extensive research effort has been directed toward a critical evaluation of the interactions among the various cellular organelles The important roles played by the exchange of metabolites in the control and regulation of cellular processes is now widely recognized but in most instances poorly understood

Predicting Photosynthesis For Ecosystem Models John D. Hesketh, 2018-01-18 This book discusses the

photosynthesis for ecosystem models in particular the strengths and limitations of four methods used for predicting photosynthesis The methods usage depends upon the purpose of the prediction to be made as well as improvements in associated techniques that seem to revolutionize the methodology Therefore comparisons between methods are valuable justifying this state of the art review for all photosynthetic scientists

Manual of Environmental Microbiology Christon J. Hurst, Ronald L. Crawford, 2002 The new second edition of this essential manual summarizes the information and knowledge of environmental microbiology in a single source It details the natural fate of microorganisms in the environment as well as the intentional attempts to eliminate from the environment microorganisms that are pathogenic to humans or to plants and animals The basic principles of environmental microbiology and general analytical methodologies common across the range of the environments covered are presented first The core sections are structured with regard to the type of environmental medium being discussed This landmark effort defines the study of environmental microbiology as we know it today and serve as an essential contribution to the literature

Manual of Industrial Microbiology and Biotechnology Richard H. Baltz, Arnold L. Demain, Julian E. Davies, 2010-03-25 A rich array of methods and discussions of productive microbial processes Reviews of the newest techniques approaches and options in the use of microorganisms and other cell culture systems for the manufacture of pharmaceuticals industrial enzymes and proteins foods and beverages fuels and fine chemicals and other products Focuses on the latest advances and findings on the current state of the art and science and features a new section on the microbial production of biofuels and fine chemicals as well as a stronger emphasis on mammalian cell culture methods Covers new methods that enhance the capacity of microbes used for a wide range of purposes from winemaking to pharmaceuticals to bioremediation at volumes from micro to industrial scale

Photosynthesis and Production in a Changing Environment D.O. Hall, J.M.O. Scurlock, H.R. Bolhar-Nordenkamp, Richard C. Leegood, S.P. Long, 2013-12-01 The majority of the world's people depend research work should be carried out at the local and regional level by locally trained on plants for their livelihood since they grow them for food fuel timber fodder and people many other uses A good understanding Following the success of our earlier book of the practical factors which govern the Techniques in Bioproductivity and Photo synthesis Pergamon Press 1985 which productivity of plants through the process of photosynthesis is therefore of paramount was translated into four major languages importance especially in the light of cur the editors and contributors have exten rent concern about global climate change sively revised the content and widened the and the response of both crops and natural scope of the text so it now bears a title ecosystems in line with current concern over global The origins of this book lie in a series of climate change In particular we have training courses sponsored by the United added chapters on remote sensing con Nations Environment Programme Project trolled environment studies chlorophyll No FP 6108 88 01 2855 Environment fluorescence metabolite partitioning and changes and the productivity of tropical the use of mass isotopes all of which grasslands with additional support from techniques are increasing in their

applica many international and national agencies tion and importance to this subject area **The Separation and Isolation of Proteins** P. Alexander,R. J. Block,2014-05-15 A Laboratory Manual of Analytical Methods of Protein Chemistry Including Polypeptides Volume 1 The Separation and Isolation of Proteins deals with the techniques used in the separation and isolation of proteins including fractionation and characterization by dialysis multi membrane electrodecantation and zonal density gradient electrophoresis The fractionation of proteins by adsorption and ion exchange is also described This book is comprised of seven chapters and begins with a discussion on procedures for the separation of proteins paying particular attention to the liberation of proteins from cellular material removal of lipids from lipoproteins and denaturation fractionation and purification of proteins The next chapter focuses on the isolation of biologically active proteins such as cytochrome bacterial amylases and bacterial proteinases The reader is methodically introduced to fractionation of proteins by adsorption and ion exchange fractionation and characterization by dialysis multi membrane electrodecantation and continuous and discontinuous partition The final chapter explains how zonal density gradient electrophoresis works as a separation method for natural mixtures of proteins their degradation products and other substances carrying electric charges in solution or suspension This volume will be of interest to chemists working with proteins *Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards* United States. Bureau of Naval Personnel,1996

Gene Transfer to Plants Ingo Potrykus,German Spangenberg,2013-06-29 The Bull Run Steam Plant Tennessee Valley Authority. Office of Engineering Design and Construction,1967 Bull Run Steam Plant represents a new milestone in the design and construction of large capacity steam electric plants in the TVA power system The initial installation consists of a single unit rated at 950 000 kW **Fuels, Chemicals and Materials from the Oceans and Aquatic Sources** Francesca M. Kerton,Ning Yan,2017-05-30 Fuels Chemicals and Materials from the Oceans and Aquatic Sources provides a holistic view of fuels chemicals and materials from renewable sources in the oceans and other aquatic media It presents established and recent results regarding the use of water based biomass both plants and animals for value added applications beyond food The book begins with an introductory chapter which provides an overview of ocean and aquatic sources for the production of chemicals and materials Subsequent chapters focus on the use of various ocean bioresources and feedstocks including microalgae macroalgae and waste from aquaculture and fishing industries including fish oils crustacean and mollusc shells Fuels Chemicals and Materials from the Oceans and Aquatic Sources serves as a valuable reference for academic and industrial professionals working on the production of chemicals materials and fuels from renewable feedstocks It will also prove useful for researchers in the fields of green and sustainable chemistry marine sciences and biotechnology Topics covered include Production and conversion of green macroalgae Marine macroalgal biomass as an energy feedstock Microalgae bioproduction Bioproduction and utilization of chitin and chitosan Applications of mollusc shells Crude fish oil as a potential fuel

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