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covers the structurally diverse secondary metabolites of medicinal plants including their ethnopharmacological properties biological activity and production strategies secondary metabolites of plants are a treasure trove of novel compounds with potential pharmaceutical applications consequently the nature of these metabolites as well as strategies for the targeted expression and or purification is of high interest regarding their biological and pharmacological activity and ethnopharmacological properties this book offers a comprehensive treatment of 100 plant species including abutilon aloe cannabis capsicum jasminum malva phyllanthus stellaria thymus vitis zingiber and more it also discusses the cell culture conditions and various strategies used for enhancing the production of targeted metabolites in plant cell cultures secondary metabolites of medicinal plants ethnopharmacological properties biological activity and production strategies is presented in four parts part i provides a complete introduction to the subject part ii looks at the ethnomedicinal and pharmacological properties chemical structures and culture conditions of secondary metabolites the third part examines the many strategies of secondary metabolites production including biotransformation culture conditions feeding of precursors genetic transformation immobilization and oxygenation the last section concludes with an overview of everything learned provides information on cell culture conditions and targeted extraction of secondary metabolites confirmed by relevant literature presents the structures of secondary metabolites of 100 plant species together with their biological and pharmacological activity discusses plant species regarding their distribution habitat and ethnopharmacological properties presents strategies of secondary metabolites production such as organ culture ph elicitation hairy root cultures light and mutagenesis secondary metabolites of medicinal plants is an important book for students professionals and biotechnologists interested in the biological and pharmacological activity and ethnopharmacological properties of plants plant regeneration and genetic variability william c taylor department of genetics university of california berkeley california 94720 it is evident by now that there is a great deal of interest in exploiting the new technologies to genetically engineer new forms of plants a purpose of this meeting is to assess the possibilities the papers that follow are concerned with the analysis of single genes or small gene families we will read about genes found within the nucleus plastids and bacteria which are responsible for agri culturally important traits given that these genes can be isolated by recombinant dna techniques there are two possible strategies for plant engineering one involves isolating a gene from a cultivated plant changing it in a specific way and then inserting it back into the same plant where it produces an altered gene product an example might be changing the amino acid composition of a seed protein so as to make the seed a more efficient food source a second strategy is to isolate a gene from one species and transfer it to another species where it produces a desirable feature an example might be the transfer of a gene which encodes a more efficient photosynthetic enzyme from a wild relative into a cultivated species there are three technical hurdles which must be overcome for either strategy to work the gene of interest must be physically isolated v 1 laboratory procedures and their applications v 2 cell growth nutrition cytodifferentiation and cryopreservation v 3 plant regeneration and genetic variability v 4 cell culture in phytochemistry v 5 phytochemicals in plant cell cultures v 6 molecular biology of plant nuclear genes v 7a the molecular biology of plastids v 7b the photosynthetic apparatus molecular biology and operation v 8 scale up and automation in plant propagation

as the world population is exploding and alongside fluctuations in climate is also prevalent there is an increasing stress on the food requirements of the population we have an urgent necessity to produce more food in the limited agricultural land further to feed 7 billion people there is a requirement of high yielding crops without harming environment and limiting the use of unnecessary pesticide and chemical fertilizers therefore it has become crucial to develop agri bio techniques which are environment friendly and also give high crop productivity many countries are evaluating the utility of biotechnology and its role in addressing problems of food security and poverty biotechnology is the application of scientific and engineering principles to the processing and production of materials by utilising biological agents these agents are exploited to provide goods and services agricultural biotechnology encompasses a growing list of techniques that range from simple probes to determine a relevant gene from the complete genome to manipulating genes for a desired outcome many other popular methods used in the realm of agricultural technology are gene integration marker assisted breeding tissue culture gene profiling or association mapping metabolomics etc the fundamental challenge facing the scientific community is how to devise innovative strategies that will bring all developed as well as developing countries into the biological fold and to do so in ways that will take full advantage of advances in the biological sciences to curb poverty improve public health and promote human development this book contains information on eco friendly techniques for high crop productivity and it is a myriad of different techniques and technology used to sustain productivity in crop plants there are fewer books focusing on large scale organic farming molecular farming etc multidisciplinary research and literature is needed to deliver knowledge and products into the marketplace which fulfil these requirements the present book is a collection of literature contributed by experts scientists professors and researchers from around the world it emphasizes work of concerned scientist and his choice of techniques used for enhancement of agricultural production this book analyses the use of modern techniques to increase crop yields production and risk of hunger linked to socioeconomic scenarios for university college students in india abroad due to expanding horizon of biotechnology it was difficult to accommodate the current information

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~~of biotechnology in detail therefore a separate book entitled advanced biotechnology has been~~ **machine**
written for the postgraduate students of indian university and colleges therefore the present form of a textbook of biotechnology is totally useful for undergraduate students a separate section of probiotics has been added in chapter 18 chapter 27 on experiments on biotechnology has been deleted from the book because most of the experiments have been written in practical microbiology by r c dubey and d k maheshwari bibliography has been added to help the students for further consultation of resource materials recent developments in the culture and regeneration of plant protoplasts protoplast culture and plant regeneration of cereals and other recalcitrant crops protoplasts and the isolation of plant mutants protoplasts and variation from culture systems for plant protoplast transformation recent developments in plant protoplast fusion and selection technology somatic hybridization by plant protoplast fusion the segregation of organelles and cytoplasmic traits in higher plant somatic fusion hybrids the first mitotic cycle of mesophyll protoplasts protoplasts for studies of the plasma membrane and associated cell organelles the use of protoplasts in plant virus research applications of protoplast technology to agriculture organelle transfer sorting out recombination plant protoplasts as tools for physiological studies genetic transformation protoplasts as tools in pathology virology and plant microbe interactions current questions of gene transfer via protoplast fusion in microorganisms opening address advances in protoplast fusion and transformation in streptomyces chromosome interactions and expression in fused bacillus protoplasts yeast strain improvement by protoplast fusion and transformation protoplasts of filamentous fungi in genetics and metabolite production interspecific somatic hybridisation in aspergillus synthesis and assembly of wall polymers on regenerating yeast protoplasts the theory and practical applications of liposome protoplast interactions transport of nutrients in yeast protoplast protoplasts and spheroplasts of gram negative bacteria with special emphasis on proteus mirabilis characteristic properties and biological significance of stable protoplast type l forms advances in microbial protoplasts bacillus licheniformis lactamase and the protoplast surface fungal protoplasts as genetic tools non complementing diploids prokaryotic microorganism protoplast fusion and chromosome inactivation uitgebreide voordrachtenbundeling over weefselkweek voor rijst groenten suikerriet en biet gember brood en theeplanten orchideeen fruit rubber palmbomen en andere bomen jute en medicinale planten

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2005-09 covers the structurally diverse secondary metabolites of medicinal plants including their ethnopharmacological properties biological activity and production strategies secondary metabolites of plants are a treasure trove of novel compounds with potential pharmaceutical applications consequently the nature of these metabolites as well as strategies for the targeted expression and or purification is of high interest regarding their biological and pharmacological activity and ethnopharmacological properties this book offers a comprehensive treatment of 100 plant species including abutilon aloe cannabis capsicum jasminum malva phyllanthus stellaria thymus vitis zingiber and more it also discusses the cell culture conditions and various strategies used for enhancing the production of targeted metabolites in plant cell cultures secondary metabolites of medicinal plants ethnopharmacological properties biological activity and production strategies is presented in four parts part i provides a complete introduction to the subject part ii looks at the ethnomedicinal and pharmacological properties chemical structures and culture conditions of secondary metabolites the third part examines the many strategies of secondary metabolites production including biotransformation culture conditions feeding of precursors genetic transformation immobilization and oxygenation the last section concludes with an overview of everything learned provides information on cell culture conditions and targeted extraction of secondary metabolites confirmed by relevant literature presents the structures of secondary metabolites of 100 plant species together with their biological and pharmacological activity discusses plant species regarding their distribution habitat and ethnopharmacological properties presents strategies of secondary metabolites production such as organ culture ph elicitation hairy root cultures light and mutagenesis secondary metabolites of medicinal plants is an important book for students professionals and biotechnologists interested in the biological and pharmacological activity and ethnopharmacological properties of plants

Secondary Metabolites of Medicinal Plants, 4 Volume Set 2020-06-02 plant regeneration and genetic variability

Protoplasts 1983 2013-11-22 william c taylor department of genetics university of california berkeley california 94720 it is evident by now that there is a great deal of interest in exploiting the new technologies to genetically engineer new forms of plants a purpose of this meeting is to assess the possibilities the papers that follow are concerned with the analysis of single genes or small gene families we will read about genes found within the nucleus plastids and bacteria which are responsible for agri culturally important traits given that these genes can be isolated by recombinant dna techniques there are two possible strategies for plant engineering one involves isolating a gene from a cultivated plant changing it in a specific way and then inserting it back into the same plant where it produces an altered gene product an example might be changing the amino acid composition of a seed pro tein so as to make the seed a more efficient food source a second strategy is to isolate a gene from one species and transfer it to another species where it produces a desirable feature an example might be the transfer of a gene which encodes a more efficient pho tosynthetic enzyme from a wild relative into a cultivated species there are three technical hurdles which must be overcome for either strategy to work the gene of interest must be physically isolated

Plant Regeneration and Genetic Variability 2012-12-02 v 1 laboratory procedures and their applications v 2 cell growth nutrition cytodifferentiation and cryopreservation v 3 plant regeneration and genetic variability v 4 cell culture in phytochemistry v 5 phytoche micals in plant cell cultures v 6 molecular biology of plant nuclear genes v 7a the molecular biology of plastids v 7b the photosynthetic apparatus molecular biology and operation v 8 scale up and automation in plant propagation

Genetic Engineering of Plants 2012-12-06

Cell Culture and Somatic Cell Genetics of Plants 1984 as the world population is exploding and alongside fluctuations in climate is also prevalent there is an increasing stress on the food requirements of the population we have an urgent necessity to produce more food in the limited agricultural land further to feed 7 billion people there is a requirement of high yielding crops without harming environment and limiting the use of unnecessary pesticide and chemical fertilizers therefore it has become crucial to develop agri bio techniques which are environment friendly and also give high crop productivity many countries are evaluating the utility of biotechnology and its role in addressing problems of food security and poverty biotechnology is the application of scientific and engineering principles to the processing and production of materials by utilising biological agents these agents are exploited to provide goods and services agricultural biotechnology encompasses a growing list of techniques that range from simple probes to determine a relevant gene from the complete genome to manipulating genes for a desired outcome many other popular methods used in the realm of agricultural technology are gene integration marker assisted breeding tissue culture gene profiling or association mapping metabolomics etc the fundamental challenge facing the scientific community is how to devise innovative strategies that will bring all developed as well as developing countries into the biological fold and to do so in ways that will take full advantage of advances in the biological sciences to curb poverty improve public health and promote human development this book contains information on eco friendly techniques for high crop productivity and it is a myriad of different techniques and technology used to sustain productivity in crop plants there are fewer books focusing on large scale organic farming molecular farming etc multidisciplinary research and literature is needed to deliver knowledge and products into the marketplace which fulfil these requirements the present book is a collection of literature contributed by experts scientists professors and researchers from around the world it emphasizes work of concerned scientist and his choice of techniques used for enhancement of agricultural production this book analyses the use of modern techniques to increase crop yields production and risk of hunger linked to socioeconomic

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scenarios

2000-06-26 for university college students in india abroad due to expanding horizon of biotechnology it was difficult to accommodate the current information of biotechnology in detail therefore a separate book entitled advanced biotechnology has been written for the postgraduate students of indian university and colleges therefore the present form of a textbook of biotechnology is totally useful for undergraduate students a separate section of probiotics has been added in chapter 18 chapter 27 on experiments on biotechnology has been deleted from the book because most of the experiments have been written in practical microbiology by r c dubey and d k maheshwari bibliography has been added to help the students for further consultation of resource materials

Eco-friendly Agro-biological Techniques for Enhancing Crop Productivity 2018-03-13 recent developments in the culture and regeneration of plant protoplasts protoplast culture and plant regeneration of cereals and other recalcitrant crops protoplasts and the isolation of plant mutants protoplasts and variation from culture systems for plant protoplast transformation recent developments in plant protoplast fusion and selection technology somatic hybridization by plant protoplast fusion the segregation of organelles and cytoplasmic traits in higher plant somatic fusion hybrids the first mitotic cycle of mesophyll protoplasts protoplasts for studies of the plasma membrane and associated cell organelles the use of protoplasts in plant virus research applications of protoplast technology to agriculture organelle transfer sorting out recombination plant protoplasts as tools for physiological studies genetic transformation protoplasts as tools in pathology virology and plant microbe interactions current questions of gene transfer via protoplast fusion in microorganisms opening address advances in protoplast fusion and transformation in streptomyces chromosome interactions and expression in fused bacillus protoplasts yeast strain improvement by protoplast fusion and transformation protoplasts of filamentous fungi in genetics and metabolite production interspecific somatic hybridisation in aspergillus synthesis and assembly of wall polymers on regenerating yeast protoplasts the theory and practical applications of liposome protoplast interactions transport of nutrients in yeast protoplast protoplasts and spheroplasts of gram negative bacteria with special emphasis on proteus mirabilis characteristic properties and biological significance of stable protoplast type l forms advances in microbial protoplasts bacillus licheniformis lactamase and the protoplast surface fungal protoplasts as genetic tools non complementing diploids prokaryotic microorganism protoplast fusion and chromosome inactivation

A Textbook of Biotechnology 1993 uitgebreide voordrachtenbundeling over weefselkweek voor rijst groenten suikerriet en biet gember brood en theeplanten orchideeen fruit rubber palmbomen en andere bomen jute en medicinale planten

Indian Journal of Experimental Biology 1984

Protoplasts 1983

Tissue Culture of Economically Important Plants 1982

Plant Growth Regulator Abstracts 1975

Acta Botanica Indica 1993

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Plant Physiology & Biochemistry 1997

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1986

2001-07

2007-02-01

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