

THE ROLE OF MEDICINAL AROMATIC PLANTS IN THE BIOLOGICAL CONTROL OF AGRICULTURAL PESTS

Evrım Sönmez¹

ABSTRACT

Medicinal and aromatic plants have been widely used by people in alternative medicine for centuries. In addition, it is used against various harmful organisms with chemicals such as terpenoids, alkaloids and flavonoids it contains. Plants synthesize these chemicals in order to protect themselves from external factors and other harmful organisms and to survive. These chemicals are called secondary metabolites and are also used as raw materials in the pharmaceutical industry. Since ancient times, some plants have been used for their insect repellent and killing effects. It has been determined that about 200 of approximately 200.000 plant species in the world have pesticide effects. However, it has been reported that only 1% of it is utilized. Agriculturally harmful insects are responsible for the loss of significant amounts of agricultural products in agricultural fields and silos. These extracts, which are obtained by different extraction methods from various parts of medicinal and aromatic plants such as roots, stems, tubers, leaves, seeds, flowers, have recently attracted a lot of attention by producers and researchers. Pyrethrum, Rotenone, Nicotine and Neem, which are the compounds of these extracts, are known to have pesticide effects on many harmful insects and are even sold as bioinsecticides by some commercial companies. Since they are of plant origin, no adverse side effects have been reported in the physiology and metabolism of living organisms. In recent years, extracts of medicinal and aromatic plants have been preferred by researchers and producers because they do not harm nature, do not leave any residue by disintegrating in water, and

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Role Of Biotechnology In Medicinal And Aromatic Plants

Vol7

Professor Dr. Y. P. S. Bajaj



Role Of Biotechnology In Medicinal And Aromatic Plants Vol7:

Role Of Biotechnology In Medicinal And Aromatic Plants Irfan Ali Khan, 2003 Medicinal and Aromatic Plants VII
Professor Dr. Y. P. S. Bajaj, 2013-11-11 27 chapters cover the distribution economic importance conventional propagation micropropagation tissue culture studies and in vitro production of important medicinal and other pharmaceutical compounds in various species of Anchusa Brucea Catharanthus Chrysanthemum Coleus Corydalis Coreopsis Emilia Ginkgo Gloriosa Hypericum Inonotus Leucosceptrum Lilium Linum Mosses Nandina Penstemon Prunus Pteridium Quassia Ribes Senecio Taraxacum Thermopsis Vanilla and Vitiveria Like the previous five volumes on medicinal and aromatic plants Volumes 4 7 15 21 and 24 this book contains a wealth of useful information for advanced students and researchers in the field of plant biotechnology and chemical engineering pharmacy botany and tissue culture Significance of Indian Medicinal Plants and Mushrooms Dr. Ved Prakash, Plants as Medicine and Aromatics Mohd Kafeel Ahmad Ansari, Mushtaq Ahmad, Gary Owens, 2024-10-22 Plant based medicines and aromatics are increasingly in demand in the healthcare sector all over the globe where they are used not only for the treatment of various diseases but also for maintaining good human health Plants as Medicine and Aromatics Uses of Botanicals reviews modern uses of ancient botanicals as medicine and aromatics including chapters on both traditional usage and modern drug discovery development as well as clinical research and development in ancient medicinal herbs Features Assesses the status of aromatics and medicinal plants as well as their modern uses Elucidates the uses of plants within traditional culture practices for the prevention and treatment of diseases Examines contemporary approaches being used to explore medicinal botany A volume in the Exploring Medicinal Plants series Plants as Medicine and Aromatics Uses of Botanicals presents a comprehensive understanding in terms of modern uses of botanicals of medicinal and aromatic plants It is useful to researchers teachers cultivators students and for those interested in herbal medicine Trees IV Y. P. S. Bajaj, 2013-11-11 This volume presents twenty four chapters on the biotechnology of trees and deals with the importance distribution conventional propagation micropropagation review of tissue culture studies in vitro culture and genetic manipulation of forest fruit and ornamental trees such as various species of Acrocomia Ailanthus Anacardium Allocasuarina Carya Casuarina Coffea Cyphomandra Fagus Feijoa Fraxinus Gymnocladus Leptospermum Metroxylon Oxydendrum Paeonia Paulownia Pouteria Psidium Quercus Included are also five chapters on gymnosperm trees such as Abies fraseri Cephalotaxus Pinus durangensis P greggii P halepensis P pinea and Tetraclinis articulata Trees IV is a valuable reference book for scientists teachers and students of forestry botany genetics and horticulture who are interested in tree biotechnology **Maize** Y. P. S. Bajaj, 2012-12-06 Forty chapters deal with various aspects of tissue culture in vitro manipulation and other biotechnological approaches to the improvement of maize They are arranged in eight sections In Vitro Technology Callus Cultures and Regeneration of Plants Somatic Embryogenesis Wide Hybridization Embryo Ovule and Inflorescence Culture in Vitro Fertilization Production of Haploids and Double Haploids

Anther and Pollen Culture Protoplast Culture Genetic Transformation Somaclonal Variation and Mutations Molecular Biology and Physiological Studies Proteins and Nutritional Improvement Pollen Storage Cryopreservation of Germplasm **Somatic**

Hybridization in Crop Improvement I Y. P. S. Bajaj, 1994-11-04 Fantasies and dreams have their rightful place in science and sometimes they turn into reality Regeneration of hybrid plants through protoplast fusion is one such dream come true In the early 1970s I shared the pioneering excitement in the field of protoplast technology at the Second International Congress of Plant Tissue Culture held in Strasbourg France Subsequently I participated in three international conferences devoted to plant protoplasts in Salamanca Spain 1972 Versailles France 1972 and Nottingham England 1975 At Versailles Dr P S Carlson presented his work on the successful regeneration of somatic hybrids between *Nicotiana glauca* and *Nicotiana langsdorffii* The enthusiasm shown by the participants was sufficient indication of the bright future of somatic hybridization On my return from Versailles I gathered my thoughts and prepared a concept paper on Potentials of Protoplast Culture Work in Agriculture which was published in *Euphytica* Bajaj 1974 The studies on protoplast fusion and somatic hybridization then gained momentum and active work started in many laboratories Very significant work was done by Melchers et al 1978 who obtained a somatic hybrid between potato and tomato calling it Pomato **High-Tech and Micropropagation II** Y. P. S.

Bajaj, 2012-12-06 Second in the series High Tech and Micropropagation this work covers the micropropagation of trees and fruit bearing plants such as poplar birches larch American sweetgum black locust *Sorbus* sandalwood *Quercus* cedar Persian walnut date palm cocoa Citrus olive apple pear peach plum cherry papaya pineapple kiwi Japanese persimmon grapevine strawberry and raspberry The importance and distribution of conventional propagation and in vitro studies on individual species are discussed In particular detail the transfer of in vitro plants to the greenhouse or the field and the prospects of commercial exploitation are examined The book will be of use to advanced students research workers and teachers in horticulture forestry and plant biotechnology in general and also to individuals interested in industrial micropropagation

High-Tech and Micropropagation III Y. P. S. Bajaj, 2013-04-17 Presenting the state of the art of tissue culture and in vitro propagation of vegetable and tuber crops medicinal and aromatic plants fibre and oilseed crops and grasses this book complements the previous two volumes on High Tech and Micropropagation which concentrated on special techniques Vol 17 and trees and bushes of commercial value Vol 18 The specific plants covered here include asparagus lettuce horse radish cucumber potato cassava sweet potato artichoke yams cardamom fennel celery thyme leek mentha turmeric lavender agave yucca cotton jute sunflower ryegrass zoysiagrass and various species of *Aconitum* *Artemisia* *Camelia* *Centaureum* *Digitalis* *Dioscorea* *Glehnia* *Levisticum* *Parthenium* and *Pinella* The book is of use to advanced students teachers and research workers in the field of pharmacy horticulture plant breeding and plant biotechnology in general and also to individuals interested in industrial micropropagation **Micropropagation of Woody Trees and Fruits** S.M. Jain, K. Ishii, 2012-12-06 Global warming environmental changes water shortage and sustainable development are the most up to date issues which have

challenged mankind Researchers worldwide are engaged in addressing some of these problems including reduction in carbon dioxide accumulation and enrichment of perennial woody species on the terrestrial ecosystem About 12 million hectares of the world's forests disappear every year By 2025 the world population will reach 7.5 billion and the forest area will be reduced to well below 50 % of the current area Reforestation is an important to prevent the loss of forest resources including timber biodiversity and water resources Therefore subsequent volume of reforestation over the deforested land should be followed to safeguard the forests and maintain its size which will require a continuous supply of planting material Similarly fruit trees including tropical and subtropical fruit trees are consumed both as fresh and in the processed form including juices beverages and dried fruits They are an important source of nutrition e.g. rich in vitamins sugars aromas and flavour compounds and raw material for food processing industries The production cultivation and maintenance of tree species provide highly sustainable production systems that conserve soils microenvironment and biodiversity Fruit trees have long juvenile periods and large tree size In many fruit trees e.g. avocado and others controlled crosses are difficult to make due to massive fruit drop

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