

Embryogenesis in Angiosperms

Valayamghat Raghavan

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Embryogenesis In Angiosperms A Developmental And Experimental Study

Michael Rajnik



Embryogenesis In Angiosperms A Developmental And Experimental Study:

Embryogenesis in Angiosperms Valayamghat Raghavan, 1986-03-31 For the first time in synoptic form this book presents a clear account of the most recent knowledge of embryogenesis in flowering plants A multidisciplinary approach is adopted bringing together the foundations of tissue culture biochemistry and cell and molecular biology which have supported the rapid progress of research in angiosperm development In the first part of the book the author draws a broad picture of the processes involved in embryogenesis A brief introduction to procedures is followed by chapters on developmental cellular biochemical and experimental aspects of embryogenesis and on somatic and pollen embryogenesis Later sections on the regulation of gene expression and mechanisms of programming developmental information precede a treatment of some practical applications resulting from the study of embryos Two techniques discussed which are aimed towards the goal of enhancing crop productivity in a dynamic and expanding field are embryo rescue from inviable crosses and preservation of germ plasm

Embryogenesis in Angiosperms Valayamghat Raghavan, 1986 For the first time in synoptic form this book presents a clear account of the most recent knowledge of embryogenesis in flowering plants A multidisciplinary approach is adopted bringing together the foundations of tissue culture biochemistry and cell and molecular biology which have supported the rapid progress of research in angiosperm development In the first part of the book the author draws a broad picture of the processes involved in embryogenesis A brief introduction to procedures is followed by chapters on developmental cellular biochemical and experimental aspects of embryogenesis and on somatic and pollen embryogenesis Later sections on the regulation of gene expression and mechanisms of programming developmental information precede a treatment of some practical applications resulting from the study of embryos Two techniques discussed which are aimed towards the goal of enhancing crop productivity in a dynamic and expanding field are embryo rescue from inviable crosses and preservation of germ plasm

Current Trends in the Embryology of Angiosperms Sant Saran Bhojwani, Woong-Young Soh, 2013-04-17 During the last two decades the modern techniques of histochemistry electron microscopy plant physiology biochemistry cell and molecular biology immunology and genetics have been applied to investigate the intricacies of the processes involved in embryo formation and considerable new information has been generated A better understanding of these processes has enhanced our capacity to manipulate fertilization and embryo development This has changed the face of the embryology of angiosperms from a descriptive science to an experimental and applied science The revolutionary progress made in this fascinating field of sexual reproduction was the motivation to prepare this volume It includes 21 chapters written by experts who have made substantial contributions to their respective fields It covers all aspects of the embryology of angiosperms ranging from development isolation and structure of male and female gametes their fusion in vivo and in vitro and structure physiology and genetics of zygotic embryogenesis to endosperm and seed development Advances in somatic embryogenesis synthetic seed technology and regeneration of haploid

plants from male and female gametophytes are discussed Other important topics covered in this volume are sexual incompatibility parthenocarpy and apomixis The last chapter deals with the embryological perspective of inheritance of extra nuclear genes All the chapters contain up to date information and are profusely illustrated Graduate and postgraduate students teachers and scientists of botany and other areas of plant sciences will find this book extremely useful

Comparative Embryology of Angiosperms Vol. 1/2 Brij M. Johri, Kunda B. Ambegaokar, Prem S. Srivastava, 2013-06-29
COMPARATIVE EMBRYOLOGY OF ANGIOSPERMS is a review of the developmental processes leading to sexual reproduction in flowering plants On the basis of embryological data and certain evidences from other areas of study it lays special emphasis on the relationship among and within the families and orders of angiosperms Occasionally inaccuracies in observation and interpretation are pointed out alternative interpretations offered gaps in our knowledge highlighted and prospects outlined The text is documented with 36 tables 376 figures and about 5000 literature citations which contribute to making this book comprehensive Besides students and research workers interested in angiosperm embryology taxonomists plant breeders agriculturists and horticulturists will also find much useful information in this treatise **The Embryology of Angiosperm, 7e** S S Bhojwani | S P Bhatnagar | P K Dantu, For the last 40 years this book has served well the students of Botany Agriculture and Forestry for their regular courses like BSc General and Hons and Msc as well as competitive examinations It has stood the test of time due to the authors zeal to update it regularly with inputs from latest developments in the field It explains all the important topics such as development and structure of male and female gametophytes pollination fertilization sexual incompatibility development of endosperm and embryo polyembryony apomixis and seed development It also describes embryology in relation to taxonomy and experimental and applied embryology **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 disinfection and experimental observations and measurement Provides the latest techniques and media information including A tumefaciens mediated transformation and infusion technology Fully updated literature **The Embryology of Angiosperms, 6th Edition** Bhojwani S.S/Bhatnagar S.P. &

Dantu P.K.,2015 For the last 40 years this book has served well the students of Botany Agriculture and Forestry for their regular courses like BSc General and Hons and MSc as well as competitive examinations It has stood the test of time due to the authors zeal to update it regularly with inputs from latest developments in the field Since the last revision of the book the methods used to study plant embryology have changed radically Powerful modern biological techniques are now being applied to understand the developmental aspects and genetic and molecular bases of embryological processes It has become possible to generate tissue specific mutants by T DNA insertional mutagenesis use of green fluorescent protein probes for live imaging of growing cells and tissues and to analyze gene expression in few celled structures such as early stages of embryo and constituent cells of the male and female gametophytes These techniques combined with the development of high resolution confocal laser scanning microscopy have provided non invasive methods to view live processes such as pollen tube growth in the pistil and double fertilization under in situ conditions The book has been translated into Japanese and Korean languages KEY FEATURES Well established text with content rigorous enough for both UG and PG studies Covers important topics like development and structure of male and female gametophytes pollination fertilization sexual incompatibility development of endosperm and embryo polyembryony apomixis and seed development Describes embryology in relation to taxonomy and experimental and applied embryology Use of tables and figures to depict important data and information Updated as per the new developments in the study of plant embryology *Distant Hybridization of Crop Plants G.*

Kaloo,J.B. Chowdhury,2012-12-06 Wild taxa are invaluable sources of resistance to diseases insects pests nematodes temperature extremes salinity and alkalinity stresses and also of nutritional quality adaptation genetic diversity and new species Utilization of wild relatives of a crop depends largely upon its crossability relations with cultivated varieties Several wild species are not crossable with the commercial cultivars due to various isolation barriers Furthermore in a few cases hybridization is possible only in one direction and reciprocal crosses are not successful thus depriving the utilization of desired cytoplasm of many species However techniques have been developed to overcome many barriers and hybrid plants are produced New crop species have been developed by overcoming the F₁ sterility and producing amphidiploids and such crops are commercially being grown in the field The segregation pattern of F₁ hybrids produced by distant hybridization in segregating generations are different from the intervarietal hybrids In former cases generally unidirectional segregation takes place in early generations and accordingly selection procedures are adopted In most of the cases backcross or modified backcross methods have been followed to utilize wild species and thus numerous types of resistance and other economical attributes have been transferred in the recurrent parents Protoplast fusion has been amply demonstrated in a number of cases where sexual hybridization was not possible and as a result hybrids have been produced Cells in Space Jean D. Sibonga,1989 Discussions and presentations addressed three aspects of cell research in space the suitability of the cell as a subject in microgravity experiments the requirements for generic flight hardware to support cell research and the

potential for collaboration between academia industry and government to develop these studies in space Synopses are given for the presentations and follow on discussions at the conference and papers are presented from which the presentations were based An Executive Summary outlines the recommendations and conclusions generated at the conference

Progress in Plant Cellular and Molecular Biology H.J. Nijkamp,L.H.W. van der Plas,J. van Aartrijk,2012-12-06 Plants are an important source of food and of valuable products for industry agriculture and medicine They are unique in many aspects of metabolic processes development and reproduction Most of these aspects can now be studied by the modern methods and technologies of molecular and cellular biology Such studies are also encouraged as to improve plant yield and quality During the past decade research in plant sciences has demonstrated the feasibility of plant cell and tissue culture techniques as major tools in biology and agriculture These techniques are also essential in strategies for engineering of biological systems The proceedings of the VII International Congress on Plant Tissue and Cell Culture in Amsterdam show that in recent years an impressive progress has been achieved The papers of the congress with more than 2000 participants include the full text of plenary lectures keynote lectures and presentations of speakers who have been selected out of more than 1400 abstracts This combination which provides readers with reviews as well as recent findings and future developments captures an important part of the scientific exchange during the congress The papers in these proceedings are a reflection of the role of plant cell and tissue culture in disciplines varying from plant breeding to molecular biology Basic as well as applied studies in a variety of plant disciplines are presented in 4 sections 1 Genetic manipulation and propagation 2 Morphogenesis and metabolism 3 Secondary metabolites and 4 Biotechnology and developing countries

Plant Tissue Culture Sunghun Park,2021-02-17 *Plant Tissue Culture Techniques and Experiments* Fourth Edition builds on the classroom tested audience proven manual that has guided users through successful plant culturing for almost 30 years The book's experiments demonstrate major concepts and can be conducted with a variety of plant materials readily available throughout the year This fully updated edition describes the principles of the newest technologies including CRISPR Cas9 gene editing and RNAi technology with plant cell and tissue cultures and their applications Bridging the gap between theory and practice this book contains detailed methodology supported by comprehensive illustrations giving users a diverse learning experience for both university students and plant scientists Provides fundamental principles methods and techniques in plant cell tissue and organ culture that can be applied to all crop plants including agronomic crops horticulture and forestry crops for germplasm improvement Guides readers from lab setup to supplies stock solution and media preparation explant selection and disinfection and experimental observations and measurement Contains the latest advances and updates since the previous edition published in 2012

Plant Growth and Development Lalit M. Srivastava,2002-08-27 This book provides current information on synthesis of plant hormones how their concentrations are regulated and how they modulate various plant processes It details how plants sense and tolerate such factors as drought salinity and cold temperature factors that limit

plant productivity on earth It also explains how plants sense two other environmental signals light and gravity and modify their developmental patterns in response to those signals This book takes the reader from basic concepts to the most up to date thinking on these topics Provides clear synthesis and review of hormonal and environmental regulation of plant growth and development Contains more than 600 illustrations supplementary information on techniques and or related topics of interest Single authored text provides uniformity of presentation and integration of the subject matter References listed alphabetically in each section *Plant Tissue Culture and Biotechnology* P.B. Kavi Kishor,1999 Major Advances Made During The Last One Decade In The Field Of Plant Tissue Culture And Molecular Biology Have Been Presented In This Book It Comprises About Fifty Research Articles On A Wide Range Of Topical Subjects From Overall Review Of Plant Tissue Culture To Superoxide Dismutases In Plants Somatic Embryogenesis In Crop Species Like Cicer Arietinum Helianthus Annus Etc Besides Plantation Crops Like Coffee And Pepper Micropropagation Of Divergent Plant Species Including Medicinal And Ornamental Plants Haploid And Somaclonal Variation In Pigeonpea Peanut Etc Production Of Secondary Metabolites In Plant Species Like Catharanthus Roseus Artemesia Maritima And Azadirachta Indica Stress Biology In Crop Plants Use Of Molecular Markers In Coffee Pcr Based Dna Fingerprinting Seed Protein Profiles Of Fodder Grains And Nodule Initiation In Pigeonpea This Book Serves Not Only As A Handbook For Students Scholars Teachers Researchers And Industries Alike In Plant Tissue Culture And Biotechnology But Also For General Reference **Advances in Plant Breeding Strategies:**

Breeding, Biotechnology and Molecular Tools Jameel M. Al-Khayri,Shri Mohan Jain,Dennis V. Johnson,2016-02-02 The basic concept of this book is to examine the use of innovative methods augmenting traditional plant breeding towards the development of new crop varieties under different environmental conditions to achieve sustainable food production This book consists of two volumes Volume 1 subtitled Breeding Biotechnology and Molecular Tools and Volume 2 subtitled Agronomic Abiotic and Biotic Stress Traits This is Volume 1 which consists of 21 chapters covering domestication and germplasm utilization conventional breeding techniques and the role of biotechnology In addition to various biotechnological applications in plant breeding it includes functional genomics mutations and methods of detection and molecular markers In vitro techniques and their applications in plant breeding are discussed with an emphasis on embryo rescue somatic cell hybridization and somaclonal variation Other chapters cover haploid breeding transgenics cryogenics and bioinformatics

Molecular Embryology of Flowering Plants Valayamghat Raghavan,1997-10-13 Provides an invaluable reference and source book on plant embryogenesis for cell and molecular biologists and plant biotechnologists **In Vitro Embryogenesis in Plants** Trevor A. Thorpe,2012-12-06 In vitro Embryogenesis in Plants is the first book devoted exclusively to this topic As the ultimate demonstration of totipotency in plants somatic and haploid embryogenesis is of vital importance to all those working on or interested in basic and applied aspects of plantlet information and regeneration The text includes comprehensive reviews written by experts on all facts of in vitro and in vivo embryogenesis Some chapters deal

with the morphogenic structural and developmental physiological and biochemical and molecular biological aspects of the subject Chapters are also devoted to haploid embryogenesis asexual embryogenesis in nature zygotic embryogenesis and zygotic embryo culture Detailed tables summarizing successful somatic embryogenesis in all vascular plants are also included This book therefore brings together previously scattered information to provide an indispensable reference book for both active researchers graduate students and anyone interested in this aspect of tissue culture technology and plant development

Molecular and Cellular Aspects of Plant Reproduction Rod J. Scott, A. D. Stead, 1994-11-24 Molecular aspects of flower morphogenesis for researchers and students from SEB Seminar The book will appeal to students and researchers in floral physiology

Barley Peter R. Shewry, Steven E Ullrich, 2014-01-01 Barley Chemistry and Technology Second Edition is an important resource for any cereal chemist food scientist or crop scientist who needs to understand the development structure composition and end use properties of the barley grain for cultivation trade and utilization Editors Peter R Shewry and Steven E Ullrich bring together a wide range of international authorities on barley to create this truly unique encyclopedic reference work that covers the massive increase in barley knowledge over the past 20 years since the first edition of this book was published Barley Chemistry and Technology Second Edition offers the latest coverage of barley s applications in milling breeding and production for food feed malting brewing distilling and biofuels It delivers a complete update of the latest knowledge of barley s many components from the genetic and molecular level to its many constituents such as proteins carbohydrates arabinoxylans minerals lipids terpenoids phenolics and vitamins This important book also includes chapters on barley s plant and grain development from both the physiological and genetic perspectives making it an important resource not only for cereal and food scientists but also for crop scientists involved in breeding agronomy and related plant sciences New coverage includes Updated comprehensive knowledge on barley s components including proteins carbohydrates arabinoxylans and bioactive effects New end use ideas for barley as an ingredient in food products Nonfood industrial applications for barley including biofuels A new chapter on barley s health benefits Molecular breeding for malting quality

Embryology of Flowering Plants: Terminology and Concepts, Vol. 3 T B Batygina, 2019-04-23 Plant embryology dealing with the regularities of initiation and the first stages of development of an organism is now flourishing because of the overall progress being made in natural sciences Such discoveries of the 20th century as production of plants from a single somatic cell experimental haploidy and parasexual hybridization were of general biological significance The combined efforts of embryologists geneticists and molecular biologists yielded the discovery of specific genes that control meiosis egg cell development and early stages of embryogenesis The tendency to synthesize data of embryology and genetics has become increasingly noticeable It is connected with the fact that the majority of problems connected with morphogenesis such as differentiation specialization the evaluation of features and the definition of the notions gene and feature and genotype and phenotype concern embryology and genetics embryogenetics in one way or another Evolutionary embryology has given rise

to a new approach to the study of problems of adaptation in plants In connection with the problem of preserving biological diversity under conditions of ecological stress special attention is paid to ecological embryology revealing the critical periods in early ontogenesis and plasticity and tolerance of reproductive systems at the level of species and population The study of variability of morphogenesis and phenotype in population life cycle variations and the diversity of reproductive systems is the most important point in the population embryology of plants Comparative Embryology of Angiosperms Brij Mohan Johri,1992

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