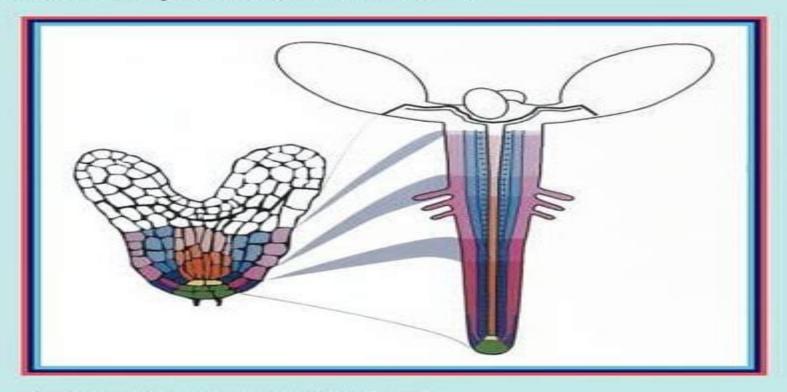
# Current Trends in the Embryology of Angiosperms

Edited by S.S. Bhojwani and W.Y. Soh



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# **Current Trends In The Embryology Of Angiosperms**

S. Srivastava, A. Narula

### **Current Trends In The Embryology Of Angiosperms:**

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 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 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 Plant Biotechnology and Molecular Markers S. Srivastava, A. Narula, 2006-01-16 The genesis of the volume Plant Biotechnology and Molecular Markers has been the occasion of the retirement of Professor Sant Saran Bhojwani from the Department of Botany University of Delhi For Professor Bhojwani retirement only means relinquishing the chair as being a researcher and a teacher which has always been a way of life to him Professor Bhojwani has been an ardent practitioner of modern plant biology and areas like Plant Biotechnology and Molecular Breeding have been close to his heart The book contains original as well as review articles contributed by his admirers and associates who are experts in their area of research While planning this contributory book our endeavour has been to incorporate articles that cover the entire gamut of Plant Biotechnology and also applications of Molecular Markers Besides articles on in vitro fertilization and micropropagation there are articles on forest tree improvement through genetic engineering Considering the importance of conservation of our precious natural wealth one article deals with cryopreservation of plant material Chapter on molecular marker considers DNA indexing as markers of clonal fidelity of in vitro regenerated plants and prevention against bio piracy A couple of write ups also cover stage specific gene markers DNA polymorphism and genetic engineering including raising of stress tolerant plants to sustain productivity and help in reclamation of degraded land **Double Fertilization** Val Raghavan, 2006-01-16 Double Fertilization provides a comprehensive overview of all aspects of this central event in the reproduction and development of flowering plants Written by Val Raghavan The Ohio State University an acknowledged expert in plant developmental biology the book vividly describes the molecular and cellular steps of the unique and complex fertilization process that culminates in the formation of embryo and endosperm focusing on the latest results from the model plant Arabidopsis The text is complemented by excellent illustrations including 16 color plates Since embryo and endosperm constitute the edible parts of many seeds and grains widely used in human and animal nutrition an understanding of the fertilization process has great relevance for genetic engineering aimed at improving the nutritional quality of crop plants This book is ideally suited to researchers and graduate students seeking a coherent view of current perspectives on embryogenesis and endosperm development in flowering plants Plant Tissue Culture: An Introductory Text Sant Saran Bhojwani, Prem Kumar Dantu, 2013-03-20 Plant tissue culture PTC is basic to all plant biotechnologies and is an exciting area of basic and applied sciences with

considerable scope for further research PTC is also the best approach to demonstrate the totipotency of plant cells and to exploit it for numerous practical applications It offers technologies for crop improvement Haploid and Triploid production In Vitro Fertilization Hybrid Embryo Rescue Variant Selection clonal propagation Micropropagation virus elimination Shoot Tip Culture germplasm conservation production of industrial phytochemicals and regeneration of plants from genetically manipulated cells by recombinant DNA technology Genetic Engineering or cell fusion Somatic Hybridization and Cybridization Considerable work is being done to understand the physiology and genetics of in vitro embryogenesis and organogenesis using model systems especially Arabidopsis and carrot which is likely to enhance the efficiency of in vitro regeneration protocols All these aspects are covered extensively in the present book Since the first book on Plant Tissue Culture by Prof P R White in 1943 several volumes describing different aspects of PTC have been published Most of these are compilation of invited articles by different experts or proceedings of conferences More recently a number of books describing the Methods and Protocols for one or more techniques of PTC have been published which should serve as useful laboratory manuals The impetus for writing this book was to make available a complete and up to date text covering all basic and applied aspects of PTC for the students and early career researchers of plant sciences and plant agricultural biotechnology The book comprises of nineteen chapters profusely illustrated with self explanatory illustrations Most of the chapters include well tested protocols and relevant media compositions that should be helpful in conducting laboratory experiments For those interested in further details Suggested Further Reading is given at the end of each chapter and a Subject and Plant Index is Reproductive Biology of Angiosperms Yash Mangla, Priyanka Khanduri, Charu Khosla provided at the end of the book Gupta, 2023-01-05 Reproductive Biology of Angiosperms Concepts and Laboratory Methods will cater to the needs of undergraduate and graduate students pursuing core and elective courses in life sciences botany and plant sciences The book is designed according to the syllabi followed in major Indian universities It provides the latest and detailed description of structures and processes involved in reproduction in higher plants The inclusion of colour photographs and illustrations will be an effective visual aid to help readers Interesting and significant findings of the latest research taking place in the field of reproductive biology are also provided in boxes At the end of each chapter the methodology of hands on exercises is presented for the implementation and practice of theoretical concepts Orchid Biology VIII T. Kull, J. Arditti, 2013-03-14 Note Not long after publication of Orchid Biology Reviews and Perspectives OB volume VII my co editor Dr Alec M Pridgeon informed me that the pressure of other duties especially the editing of Genera Orchidacearum GO will make it impossible for him to continue as co editor and eventually editor of the series Alec is an excellent orchid scientist and editor I was sorry to that he had to leave OB but glad that GO will be in his able hands The first volume of GO attests to his considerable abilities and I wish him much success in the future Editors of orchid publications are not the most common of species to use a botanical analogy and finding a replacement for Alec was not easy However I was fortunate that Dr Tiiu Kull agreed to

become my co editor and eventually take over the series As is obvious from the Contributors section Dr Kull has extensive experience as both writer and editor My interactions with her while editing this volume have convinced me she is an excellent choice Scientifically she brings to OB an appreciation and understanding of northern terrestrial orchids a group which has not received as much attention as it deserves Another addition to OB is Dr Tim Wing Yam who agreed to become an associate editor Tim who holds a position at the Singapore Botanic Gardens will provide expertise on seed germination hybridization tissue culture species and conservation Doubled Haploid Production in Crop Plants M. Maluszynski, Kenneth Kasha, B.P. Forster, I. Szarejko, 2013-06-29 The production of doubled haploids has become a necessary tool in advanced plant breeding institutes and commercial companies for breeding many crop species However the development of new more efficient and cheaper large scale production protocols has meant that doubled haploids are also recently being applied in less advanced breeding programmes This Manual was prepared to stimulate the wider use of this technology for speeding and opening up new breeding possibilities for many crops including some woody tree species Since the construction of genetic maps using molecular markers requires the development of segregating doubled haploid populations in numerous crop species we hope that this Manual will also help molecular biologists in establishing such mapping populations For many years both the Food and Agriculture Organization of the United Nations FAO and the International Atomic Energy Agency IAEA have supported and coordinated research that focuses on development of more efficient doubled haploid production methods and their applications in breeding of new varieties and basic research through their Plant Breeding and Genetics Section of the Joint F AO IAEA Division of Nuclear Techniques in Food and Agriculture The first F AO IAEA scientific network Coordinated Research Programme CRP dealing with doubled haploids was initiated by the Plant Breeding and Genetics Section in 1986 Handbook of Seed Science and Technology Amarjit Basra, 2024-11-01 A reference text with the latest information and research for educators students and researchers World hunger and malnutrition remain an alarming concern that spurs researchers to develop quality technology The Handbook of Seed Science and Technology is an extensive reference text for educators students practitioners and researchers that focuses on the underlying mechanisms of seed biology and the impact of powerful biotechnological approaches on world hunger malnutrition and consumer preferences This comprehensive guide provides the latest available research from noted experts pointing out the likely directions of future developments as it presents a wealth of seed biology and technological information Seed science is the all important foundation of plant science study The Handbook of Seed Science and Technology provides an integrative perspective that takes you through the fundamentals to the latest applications of seed science and technology This resource provides a complete overview divided into four sections Seed Developmental Biology and Biotechnology Seed Dormancy and Germination Seed Ecology and Seed Technology The Handbook of Seed Science and Technology examines the molecular control of ovule development female gametophyte development cytokinins and seed development grain number

determination in major grain crops metabolic engineering of carbohydrate supply in plant reproductive development enhancing the nutritive value of seeds by genetic engineering the process of accumulation of seed proteins and using biotechnology to improve crops synthetic seeds dormancy and germination hormonal interactions during dormancy release and germination photoregulation of seed germination seed size seed predation natural defense mechanisms in seeds seed protease inhibitors soil seed banks the ecophysiological basis of weed seed longevity in the soil seed quality testing seed vigor and its assessment diagnosis of seed borne pathogens seed quality in vegetable crops vegetable hybrid seed production practical hydration of seeds of tropical crops seed technology in plant germplasm The Handbook of Seed Science and Technology is extensively referenced and packed with tables and diagrams and makes an essential source for students educators researchers and practitioners in seed science and technology Plant Stress: Challenges and Management in the New Decade Swarnendu Roy, Piyush Mathur, Arka Pratim Chakraborty, Shyama Prasad Saha, 2022-03-31 This book presents an inclusive approach to deal with plant stresses in light of recent technological advances As we have entered into a new decade researchers and scientists should review and evaluate the recent findings in the field of plant stress management and visualize what we need to focus upon in the near future to increase crop yield Above all global climate changes present the greatest challenges of all time for plant scientists In this context the book highlights the recent findings and future perspectives in crop improvement to the faculties scientists research scholars and postgraduate students Major features of the book include an inclusive approach in understanding the mechanism of stress tolerance recent advances and innovations in the field of allied disciplines like microbiology molecular biology biotechnology plant breeding nanobiotechnology etc for improving plant stress tolerance and illustrative sketches to convey the mechanism and strategies of stress alleviation

Apomixis in Angiosperms Diego Hojsgaard, Thammineni Pullaiah, 2022-08-19 Apomixis is a difficult to analyse trait with a complex molecular basis and a substantive effect on the biology of a species Thus apomixis is an interesting characteristic for researchers and students working in different fields of plant science and agriculture and technological advances are enabling and making apomixis studies more common Apomixis in Angiosperms Mechanisms Occurrences and Biotechnology provides a systematic introduction to the mechanisms and developmental types of apomixis along with an overview of alternative methodologies for identifying apomixis and a detailed reassessment of the occurrences of apomictic species among angiosperm families Optional methods are illustrated with examples of all types of apomixis and biological levels of analysis i e cells ovules seeds and offspring Data on apomictic species are collected in tables along with information on ploidy type of apomixis and references Occurrences of apomixis are briefly discussed in phylogenetic and evolutionary contexts An outline of the molecular basis of apomixis in plants is presented together with prospects and challenges that remain for its biotechnological exploitation This book Provides a systematic overview of the mechanisms of apomixis developmental types and methodology for apomixis research Reassesses apomixis at the species level in angiosperm families Contains tables

summarizing relevant information on apomixis Analyses occurrences of apomixis in phylogenetic and evolutionary contexts Outlines the molecular basis and biotechnological perspective of apomixis breeding This book presents an accessible overview of apomixis research and a curated dataset of apomictic species It serves as a reference book for students researchers and citizen scientists interested in apomixis as well as researchers business innovators and entrepreneurs pursuing apomixis breeding It can also be used as a textbook in graduate courses on plant reproduction Culture Margit Laimer, Waltraud Rücker, 2012-12-06 In 2002 the 100th anniversary of the publication on Culturversuche mit isolierten Pflanzenzellen by Gottlieb Haberlandt was celebrated Haberlandt s vision of the totipotency of plant cells represents the actual beginning of tissue culture This book pays homage to a great Austrian scientist and the further development of his ideas The first part of the book contains a facsimile of the original paper which is a true artistic masterpiece and its first translation into English from 1969 The second and third parts describe Haberlandt's life and work and early historical aspects of the development of plant tissue culture The fourth part of the book contains an overview of important topics of plant tissue culture with the most promising areas of application to date and an outlook into the future Areas range from micropropagation production of pharmaceutically interesting compounds plant breeding genetic engineering of crop plants including trees and cryopreservation of valuable germplasm Biotechnology of Major Cereals Huw D Jones, 2016-09-30 Biotechnology of Major Cereals will focus on the recent advances and future prospects in cereal biotechnology The first part of the book will cover the world's major cereals and focus on new developments and trends The second part will be technology rather than species led detailing fundamental developments in technologies and significant Protocol for Somatic Embryogenesis in Woody Plants Shri Mohan Jain, Pramod K. Gupta, 2005-05-23 World target traits population is increasing at an alarming rate and this has resulted in increasing tremendously the demand for tree products such as wood for construction materials fuel and paper fruits oils and medicines etc This has put immense pressure on the world's supplies of trees and raw material to industry and will continue to do so as long as human population continues to grow Also the quality of human diet especially nutritional components is adversely affected due to limited genetic improvement of most of fruit trees Thus there is an immediate need to increase productivity of trees Improvement has been made through conventional breeding methods however conventional breeding is very slow due to long life cycle of trees A basic strategy in tree improvement is to capture genetic gain through clonal propagation Clonal propagation via organogenesis is being used for the production of selected elite individual trees However the methods are labour intensive costly and produce low volumes Genetic gain can now be captured through somatic embryogenesis Formation of embryos from somatic cells by a process resembling zygotic embryogenesis is one of the most important features of plants In 1958 Reinert in Germany and Steward in USA independently reported somatic embryogenesis in carrot cultures Since then tremendous progress in somatic embryogenesis of woody and non woody plants has taken place It offers a potentially large

scale propagation system for superior clones Plant Biotechnology 2002 and Beyond I. K. Vasil, 2003-01-31 The 10th IAPTC B Congress Plant Biotechnology 2002 and Beyond was held June 23 28 2002 at Disney's Coronado Springs Resort in Orlando Florida USA It was attended by 1 176 scientists from 54 countries The best and brightest stars of international plant biotechnology headlined the scientific program It included the opening address by the President of the IAPTC B 14 plenary lectures and 111 keynote lectures and contributed papers presented in 17 symposia covering all aspects of plant biotechnology More than 500 posters supplemented the formal program The distinguished speakers described discussed and debated not only the best of science that has been done or is being done but also how the power of plant biotechnology can be harnessed to meet future challenges and needs The program was focused on what is new and what is exciting what is state of the art and what is on the cutting edge of science and technology In keeping with the international mandate of the IAPTC B 73 of the 125 speakers were from outside the United States representing 27 countries from every region of the world The 10th IAPTC B Congress was a truly world class event The IAPTC B founded in 1963 at the first international conference of plant tissue culture organized by Philip White in the United States currently has over 1 500 members in 85 countries It is the largest oldest and the most comprehensive international professional organization in the field of plant biotechnology The IAPTC B has served the plant biotechnology community well through its many active national chapters throughout the World by maintaining and disseminating a membership list and a website by the publication of an official journal formerly the Newsletter and by organizing quadrennial international congresses in France 1970 the United Kingdom 1974 Canada 1978 Japan 1982 the United States 1963 1986 2002 The Netherlands 1990 Italy 1994 and Israel 1998 In addition the IAPTC B has a long tradition of publishing the proceedings of its congresses Individually these volumes have provided authoritative quadrennial reports of the status of international plant biotechnology Collectively they document the history of plant biotechnology during the 20th century They are indeed a valuable resource We are pleased to continue this tradition by publishing this proceedings volume of the 10th IAPTC B Congress Regrettably we are not able to publish seven of the lectures in full only their abstracts are included The American and Canadian chapters of the IAPTC B the Plant Section of the Society for In Vitro Biology and the University of Florida hosted the 10th IAPTC B Congress The Congress was a true partnership between academia and industry and was generously supported by both groups see list of donors sponsors on back cover A number of prominent international biotechnology companies and publishers participated in the very successful Science and Technology Exhibit see accompanying list of exhibitors The IAPTC B awarded 84 fellowships to young scientists from 31 countries see accompanying list of fellowship recipients to support their participation in the Congress Haploids in Crop Improvement II Constantine E. Don Palmer, Wilfred A. Keller, Kenneth J. Kasha, 2006-01-27 Doubled haploid technology is an important tool for plant breeding It allows for significant time reduction in the achievement of homozygous breeding lines of value in crop improvement This volume provides an excellent overview of haploid induction and the

application of doubled haploids The authors emphasize advances made in the understanding of microspore embryogenesis but treat also advances in gynogenesis and the manipulation of parthenogenetic haploid development The text contains a thorough discussion of the application of haploidy to the improvement of a number of species from various families including Brassicaceae Poaceae and Solanaceae The various methods applicable to these species are described in detail Each chapter contains critical evaluation of the scientific literature and an extensive list of references This volume is ideally suited for plant breeders geneticists and plant cell biologists Ascorbate-Glutathione Pathway and Stress Tolerance in Plants Naser A. Anjum, Shahid Umar, Ming-Tsair Chan, 2010-08-20 Plants are sessile organisms that live under a constant barrage of biotic and abiotic insults Both biotic and abiotic stress factors have been shown to affect various aspects of plant system including the acceleration in the formation of reactive oxygen species ROS The ascorbate AsA glutathione GSH pathway is a key part of the network of reactions involving enzymes and metabolites with redox properties for the detoxification of ROS and thus to avert the ROS accrued oxidative damage in plants The present book mainly deals with the information gained through the cross talks and inter relationship studies on the physiological biochemical and molecular aspects of the cumulative response of various components of AsA GSH pathway to stress factors and their significance in plant stress tolerance **Annual** Plant Reviews, Fruit Development and Seed Dispersal Lars Ostergaard, 2009-09-24 Fruit development and seed dispersal are major topics within plant and crop sciences research with important developments in research being reported regularly Drawing together reviews by some of the world's leading experts in these areas the Editor of this volume Lars Ostergaard has provided a volume which is an essential purchase for all those working in plant and crop sciences worldwide

**Biotechnology of Crucifers** Surinder Kumar Gupta,2013-07-23 Despite the recent advances made in the improvement of crucifer crops using conventional breeding techniques the yield levels and the oil and meal quality could not be improved as expected The understanding of genetic material DNA RNA and its manipulation by scientists has provided the opportunity to improve crucifers by increasing its diversity beyond conventional genetic limitations The application of the biotechnological techniques will have major impacts in two ways first it provides a number of techniques methods for efficient selection for favorable variants and second it gives an opportunity to utilize alien variation available in the crucifers by using the novel techniques of biotechnology to develop high yielding varieties with good nutritional quality having resistance to insect pest and disease resistance

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