

Current Trends In The Embryology Of Angiosperms

Embryology of Flowering Plants: Terminology and Concepts, Vol. 2 T B Batygina 2005-01-11 This volume covers up-to-date notions of seed structure, processes resulting to its formation (syngamy, triple fusion etc.), as well as of postseminal development (seed dormancy and germination). Great attention has been paid to the morphological and functional aspects of fertilization process and embryo- and endospermogenesis.

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.

Glimpses in Plant Research: Modern trend in plant taxonomy

Parameswaran Krishnan Kutty Nair 1973

□□ □□ □ 2002

The Journal of the Indian Botanical Society Indian Botanical Society 2003

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

Current Trends in the Embryology of Angiosperms Sant Saran Bhojwani 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 Botanica 2003

Plant Reproduction 2nd Ed T. Pullaiah 2019-05-17 The present book is revised edition of our earlier book *Embryology of Angiosperms* and we retitled it as *Plant Reproduction* as per UGC syllabus. In accordance with the title we introduced a chapter on Floral characters, pollination mechanisms and vectors by Prof. A. Janaki Bai, Department of Botany, Andhra University, Visakhapatnam and revised several other chapters. This book brings together information on the widest range of topics in *Plant Reproduction* in a single source. Written in a concise manner, this book is ideally suitable to students and teachers of Colleges and Universities. This fully illustrated book discusses plant reproduction in sufficient depth. The text includes Development and structure of anther and male gametophyte, palynology, development and structure of female gametophyte, pollination, sexual incompatibility, development of endosperm and embryo, polyembryony and apomixis. The text also includes chapters on embryology in relation to taxonomy and experimental embryology.

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.

Journey of a Single Cell to a Plant S J Murch 2005 In plants, the ability to regenerate identical individuals from single cells is the basis for modern agriculture. These scientific advancements have given us virus-free stocks, novel germplasms, clonal propagation systems, and the commercial introduction of difficult to propagate plant species. The timescale for breeding programs was dramatically reduced as plant tissue culture technologies were developed to shorten the time between generations and reduce the number of generations required for a line to be developed. Without the capacity to regenerate plants, it would not have been possible for plant biotechnology and genetic engineering to have advanced this far. This book contains detailed reviews by the leading scientists who made these discoveries.

Acta Biologica Cracoviensia 2001

Canadian Journal of Botany 2006

Australian Journal of Botany 2010

The New Volumes of the Encyclopædia Britannica 1902

Apomixis Elvira Hörandl 2007 Apomixis (asexual reproduction without fertilisation) is no longer regarded as a 'blind alley' of evolution, but rather as an alternative mechanism to the predominant sexual pathway, and that needs to be explored in many details to fully understand its role in nature.

Agrobiotechnology and Plant Tissue Culture Sant Saran Bhojwani 2003 Plant tissue culture, a fundamental technique of plant biotechnology, has found varied applications in the plant industry and is a valuable laboratory technique. This text, for students and researchers, explores the topic.

Plant Molecules Antonio Tiezzi 2006

The Embryology of Angiosperms C. R. Nagendran 1989

Annual Review of Plant Physiology and Plant Molecular Biology 1950

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