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Nearly 10 years have elapsed
since I finished writing the first

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edition of Introduction to Molecular Embryology. During this period, molecular embryology has made great strides forward, but without undergoing a major revolution; therefore, the general

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philosophy and outline of the book have remained almost unchanged. However, all the chapters had to be almost completely rewritten in order to introduce new facts and to eliminate findings which have

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lost interest or have been disproved. There was a major gap in the first edition of this book: very little was said about mammalian eggs despite their obvious interest for mankind. Research on mammalian eggs

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and embryos is so active today that this important topic deserves a full chapter in a book concerned with molecular embryology. Therefore, I am very thankful to my colleague Dr. Henri Alexandre, who has

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written a chapter on mammalian embryology (Chap. 9) and has prepared all the illustrations for this book.

Gain a deeper understanding of oral health with the definitive text in oral histology. Written by

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Dr. Antonio Nanci, a world-renowned leader in cell biology, the new ninth edition of Ten Cate ' s Oral Histology covers all the latest research and trends in oral histology, embryology, physiology, oral biology, and

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postnatal growth and development that is essential to success in oral health!

Considered to be the standard in the field, this renowned text uses straightforward explanations and detailed, full-

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color micrographs, images, and illustrations to help you better understand even the most complex topics. Detailed histological and structural images help you differentiate the structures. Medical

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approach to histology helps you understand underlying biological events, and oral tissue repair and regeneration. Full-color format helps bring oral histology to life. Learning resources on the Evolve website

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include multiple-choice review questions with instant feedback, and interactive drag-and-drop exercises. NEW! Full-color micrographs, images, and 3D art enhance your understanding of key oral histology concepts.

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NEW! Commentary boxes highlight new and innovative research topics from leaders in the field. NEW! Updated content — including additional content on the nervous system in chapter four — has been added

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to keep you up to date with the latest information in the field. The book "Embryogenesis" is a compilation of cutting edge views of current trends in modern developmental biology, focusing on gametogenesis,

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fertilization, early and/or late embryogenesis in animals, plants, and some other small organisms. Each of 27 chapters contributed from the authorships of world-wide 20 countries provides an

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introduction as well as an in-depth review to classical as well as contemporary problems that challenge to understand how living organisms are born, grow, and reproduce at the levels from molecule and cell to individual.

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Embryology of the Face and Oral Cavity

Introduction to Molecular Embryology

Plant Tissue Culture: An Introductory Text

Utopian Motherhood

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Recent Trends and Contacts
Between Cytogenetics
Embryology and Morphology
Held at Postgraduate
Department of Botany Nagpur
University Nagpur October
15-17 1976

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Double Fertilization

Gamete maturation. Towards a molecular understanding of meiosis in domestic animals.

Biology of oocyte maturation.

Post-meiotic sperm development in mammals. Molecular probes

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for testing bovine sperm quality. Fertilization and embryonic development. Fertilization by assisted micromanipulation of gametes. In vitro fertilization in farm animals. Culture of embryos of farm animals. Maternal control

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of early embryonic development.
Inter - and extraspecies pregnancies in equids.
Embryonic manipulation and genetic engineering. Gender preselection in mammals.
Embryo multiplication in

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livestock. Present procedures and the potential for improvement. Gene transfer in farm animals. Mechanism of sperm - DNA interaction. Spermatozoa as vectors for introducing exogenous DNA into

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eggs. Embryonic stem cells from domestic animals. Establishment and potential applications. New trends in embryo transfer. Embryo transfer and new technology in sheep reproduction. Embryo production

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in vivo: problems and prospects. Embryotechnology in dairy cattle breeding. Practical application of two advanced biotechnologies to bovine embryo transfer: splitting and sexing. Theoretical and practical aspects of equine

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embryo transfer. Embryo technology in pets and endangered species.

Reproductive biotechnology in deer farming. Vitrification of oocytes and embryos.

International regulations.

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Tentative prospective and health regulations of the embryo transfer industry.

For the last 40 years this book has served well the students of Botany, Agriculture and Forestry for their regular courses like BSc.

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(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

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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

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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

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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

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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

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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

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male and female gametophytes, pollination, fertilization, sexual incompatibility, development of endosperm and embryo, polyembryony, apomixis and seed development • Describes embryology in relation to

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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

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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,

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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

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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.

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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

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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

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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

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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.

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The Embryology of
Angiosperms, 6th Edition
Embryology in Medical
Education
Development, Structure, and
Function
A Mixed Methods Study and

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Phenomenology of Faculty and First Year Medical Students
Textbook of Clinical Embryology
Recent Trends and Contacts Between Cytogenetics, Embryology and Morphology
Salient Features Inclusion of new

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features such as learning objectives, timing of key developmental events facilitate to focus on important facts Thorough revision of the chapters on cell division and gametogenesis, extraembryonic membranes, developments of face, nose and palate;

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cardiovascular system, urogenital system Present applications of embryology in clinical practice Inclusion of new diagrams and improvement in earlier diagrams for easy understanding and reproducibility Addition of an

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appendix on embryological structures and their derivatives help in quick recall Core competencies prescribed by the MCI are covered and competency codes are included in the text Online Features Complimentary access to online animations, chapter-

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wise image bank along with the complete e-book

First 3 paragraphs of Preface: In these days of intense activity, when hundreds of papers are being published in every field of botany in a steadily increasing number of

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periodicals and in a multitude of languages, no apology is needed for an attempt to summarize the existing state of our knowledge in any branch of the subject and to point out the future possibilities in it. Since the publication of Coulter and

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Chamberlain's "Morphology of Angiosperms" in 1903, no comprehensive account of this aspect of botany has appeared in the English language. The original impetus for writing this work resulted from a course of lectures which I gave on the

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subject in 1930 when I was teaching at the Agra College. Several colleagues and pupils then suggested that I should produce a book on the embryology of angiosperms. This suggestion was repeated by Professor G. Tischler of the University of Kiel,

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whom I visited in 1936. Teaching and administrative duties and other difficulties made it impossible for me to carry on this work in India at the speed I should have liked. Soon after the war was over in 1945, therefore, I took the manuscript to the United

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States in order to revise it and put it in shape for publication. In a strict sense, embryology is confined to a study of the embryo, but most botanists also include under it the events which lead on to fertilization. I am in agreement with this wider

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comprehension of the subject and have therefore included in this volume not only an account of the embryo and endosperm, but also an account of the development of the male and female gametophytes and fertilization. To emphasize the recent trends of

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research in the subject, two chapters of a general nature have been added, one dealing with embryology in relation to taxonomy, and the other with experimental embryology. In the former, an attempt has been made to indicate the possibilities of the

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embryological method in the solution of problems of systematic botany. In the latter, emphasis has been placed on the contacts between embryology, cytology, genetics, and plant physiology.

Discusses the history of modern

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embryology, and provides insight on how cells know their position in the embryo, evolution, development of the brain, the processes of regeneration, growth, and aging

Plasmodesmata: Recent Progress and New Insights

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Embryology of Flowering Plants: Terminology and Concepts, Vol. 2

New trends in microanatomy of reproduction

Textbook of Clinical Embryology, 2nd

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Updated Edition, ebook
Plant Reproduction 2nd Ed
Current Trends in the
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Science & Business Media
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digital textbook; the product description may vary from the print textbook. Understand oral histology and learn to apply your knowledge in the clinical setting with

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this definitive reference. Updated and enhanced, it provides insight on contemporary research and trends in oral histology, embryology, physiology, oral biology, and

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postnatal growth and development essential to your success in dentistry! Topics for Consideration boxes present expert perspectives on current trends and encourage

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additional research.

Content outlines provide quick reference to specific topics within chapters. Logical organization enhances your understanding of chapter

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content and helps you review more effectively. Up-to-date recommended readings direct you to additional sources of relevant information. Concise, user-friendly

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writing style makes complex concepts easier to grasp. Companion CD includes over 300 multiple choice questions and over 100 labeling exercises that help you assess your

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comprehension and prepare for Part I of the board exam. Hundreds of full-color illustrations visually acquaint you with the oral structures and microscopic anatomy you'll

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encounter in dental care. Electronic image collection included on the companion CD is now in full-color, giving you clear, vibrant visual references for convenient

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study and review.

Historically, philosophers of biology have tended to sidestep the problem of development by focusing primarily on evolutionary biology and, more

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recently, on molecular biology and genetics. Quite often too, development has been misunderstood as simply, or even primarily, a matter of gene activation

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and regulation. Nowadays a growing number of philosophers of science are focusing their analyses on the complexities of development, and in

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Embryology, Epigenesis and Evolution Jason Scott Robert explores the nature of development against current trends in biological theory and practice and looks at the

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interrelations between development and evolution (evo-devo), an area of resurgent biological interest. Clearly written, this book should be of interest to students and

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professionals in the philosophy of science and the philosophy of biology. New Trends in Human Reproduction The Triumph of the Embryo Plant Tissue Culture,

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Development, and
Biotechnology
Experiments on embryos?
Abstracts from the 3rd
World Congress of the
World Association of
Reproductive Medicine ;

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Rome, Italy, 27 September
– 1 October 2006

The revolutionary progress made in this fascinating field of sexual reproduction inspired this generously illustrated volume. It

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includes 21 chapters written by experts, covering all aspects of the embryology of angiosperms, ranging from development, isolation, and structure of gametes to endosperm and seed

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development.

University Botany-iii Is A Comprehensive Text Book For Students Of 3Rd Year B.Sc Botany. The Book Is Written Strictly In Accordance With Revised

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Common Core Syllabus
Adopted By All The
Universities In Andhra
Pradesh. Every Care Has
Been Taken To Present The
Subject In A Simple
Language And In A Profusely

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Illustrated Manner For Better Understanding. The Book Is Divided Into Three Parts. Part A Deals With The Morphology, Taxonomy And Economic Importance Of Different Families. It Also

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Deals With Basic Rules Of Nomenclature And Systems Of Classifications Of Angiosperm Plants. A Brief Account Of Modern Trends In Taxonomy And Basics Of Ethnobotany Are Also

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Given. Part B Deals With The Reproduction And Development Of Angiosperm Plants. Microsporogenesis And Megasporogenesis And Fertilization Are Discussed In Different Chapters. Brief

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Description Of Development Of Endosperm And Embryo Formed Sixth Seventh Chapters Respectively. An Introduction To Palynology With Special Reference To A Few Families Is Also

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Given. Part C Deals With The Plant Water Relations, Mineral Nutrition, Plant Metabolism With Respect To Photosynthesis, Respiration And Nitrogen Metabolism Are Given. Growth And

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Development Of Angiosperm Plant With Reference To Growth Substances And Light Are Discussed. Fruit Ripening, Seed Dormancy And Germination Also Formed This Part. Plant Life In

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Relation To Environmental Stress Is Given In Last Part Of This Section.

Plant tissue culture (PTC) is basic to all plant biotechnologies and is an exciting area of basic and

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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

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applications. It offers technologies for crop improvement (Haploid and Triploid production, In Vitro Fertilization, Hybrid Embryo Rescue, Variant Selection), clonal propagation

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(Micropropagation), virus elimination (Shoot Tip Culture), germplasm conservation, production of industrial phytochemicals, and regeneration of plants from genetically manipulated

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cells by recombinant DNA technology (Genetic Engineering) or cell fusion (Somatic Hybridization and Cybridization). Considerable work is being done to understand the physiology

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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

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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

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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

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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

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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.

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The book comprises of nineteen chapters profusely illustrated with self-explanatory illustrations. Most of the chapters include well-tested protocols and relevant media compositions

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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

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Plant Index is provided at the end of the book.

Ten Cate's Oral Histology -
Pageburst Retail (User Guide
and Access Code)

Plant Biotechnology and
Molecular Markers

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The Embryology of
Angiosperms
Taking Development
Seriously
In Vitro Embryology: New
Trends in Reproductive
Medicine

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Molecular Embryology of Flowering Plants

Under the vast umbrella of Plant Sciences resides a plethora of highly specialized fields. Botanists, agronomists, horticulturists, geneticists, and

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physiologists each employ a different approach to the study of plants and each for a different end goal. Yet all will find themselves in the laboratory engaging in what can broadly be termed

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biotechnol

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

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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

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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

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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

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structure of female gametophyte, pollination, sexual incompatibility, development of endosperm and embryo, polyembryony and apomixis. The text also includes chapters on embryology in

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relation to taxonomy and experimental embryology.

Manual of Assisted Reproductive Technologies and Clinical Embryology aims to discuss the relevance of science of reproductive biology in

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modern-day Assisted Reproductive Technologies and their practical applications. The readers can learn and master the large number of sophisticated techniques which form the backbone of the

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fascinating and growing field of human assisted reproduction. The subject is vast and has been covered over 83 chapters. All the chapters are dealt by the experts of concerned fields. Principles and protocols

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pertaining to laboratory maintenance, culture media, cryofreezing of gametes, embryos, and genital tissues have been dealt with at length. This book is an invaluable reference book for the

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clinicians, reproductive biologists and embryologists. Trends in Research and Applications : Proceedings of the 1st Congress of the Italian Society of Embryo Transfer and the International Symposium on

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Embryonic Technology in Domestic Species, Milan
Ten Cate's Oral Histology - E-Book

Technical and Scientific Publications on Experimental Avian Embryology

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Manual of Assisted
Reproductive Technologies and
Clinical Embryology
Orchid Biology VIII
University Botany- Iii : (Plant
Taxonomy, Plant Embryology,
Plant Physiology)

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This book examines the modern revolution in experimental embryology with an eye toward how those advances affect human sexuality and evolution as a whole. Among other topics,

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the author addresses eugenics in reproductive choice, whether the traditional marital relationship is outdated, and who should decide how reproductive technologies

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are implemented. The author's main premise is that modern advances in embryology (artificial insemination, research toward artificial wombs, embryo transplants, and

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cloning), have modified cultural views of sexuality. He predicts a world in which human sexuality is no longer biological oriented to reproduction of the species.

Textbook of Clinical

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Embryology faithfully follows the syllabus of Embryology recommended by the Medical Council of India. It covers in detail all the developmental events in prenatal period. Following

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recent trends in medical education, this book in addition to basic information also provides knowledge on embryological and genetic basis of clinical conditions through its features of

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Clinical Correlation and Clinical Problems. With the wealth of relevant knowledge, this book is ideal for undergraduate medical and dental students and it is highly recommended for

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students preparing for various entrance examinations like PG entrance, USMLE, PLAB, etc. Main Highlights
Meticulously designed, accurate, simplified, and

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easily reproducible four-color illustrations form a unique feature of this book. Clinical Correlation integrated in text highlighting practical application of embryological

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facts; an approach increasingly being adopted in medical teaching.

Detailed description of gametogenesis, fertilization, and organogenesis.

Molecular and genetic basis

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of embryology and birth defects also discussed. Developmental events during entire gestation period given in a sequence in the last chapter for quick recall and application in day-

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to-day clinical practice. Features Overviews, tables, and flowcharts summarize the text and present complex data in a simple manner. Additional information of higher

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academic value presented in a simple way in the form of N.B. to make it more interesting for readers, especially the aspiring postgraduates. Provides problem-based clinical and

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functional perspective at the end of each chapter to initiate interest of students in problem based learning (PBL). Important facts useful for candidates appearing in various entrance

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examinations like PGME, USMLE, and PLAB listed under Golden Facts to Remember. Multiple Choice Questions at the end of the book for self-assessment of the topics studied.

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This volume offers a much-needed compilation of essential reviews on diverse aspects of plant biology, written by eminent botanists. These reviews effectively cover a wide

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range of aspects of plant biology that have contemporary relevance. At the same time they integrate classical morphology with molecular biology, physiology with pattern

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formation, growth with genomics, development with morphogenesis, and classical crop-improvement techniques with modern breeding methodologies. Classical botany has been

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transformed into cutting-edge plant biology, thus providing the theoretical basis for plant biotechnology. It goes without saying that biotechnology has emerged

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as a powerful discipline of Biology in the last three decades. Biotechnological tools, techniques and information, used in combination with appropriate planning and

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execution, have already contributed significantly to economic growth and development. It is estimated that in the next decade or two, products and processes made possible by

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biotechnology will account for over 60% of worldwide commerce and output. There is, therefore, a need to arrive at a general understanding and common approach to issues related to

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the nature, possession, conservation and use of biodiversity, as it provides the raw material for biotechnology. More than 90% of the total requirements for the

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biotechnology industry are contributed by plants and microbes, in terms of goods and services. There are however substantial plant and microbial resources that are waiting for

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biotechnological exploitation in the near future through effective bioprospection. In order to exploit plants and microbes for their useful products and processes, we need to first understand

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their basic structure, organization, growth and development, cellular process and overall biology. We also need to identify and develop strategies to improve the productivity of

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plants. In view of the above, in this two-volume book on plant biology and biotechnology, the first volume is devoted to various aspects of plant biology and crop improvement. It

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includes 33 chapters contributed by 50 researchers, each of which is an expert in his/her own field of research. The book begins with an introductory chapter that gives a lucid

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account on the past, present and future of plant biology, thereby providing a perfect historical foundation for the chapters that follow. Four chapters are devoted to details on the structural and

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developmental aspects of the structures of plants and their principal organs. These chapters provide the molecular biological basis for the regulation of morphogenesis of the form

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of plants and their organs, involving control at the cellular and tissue levels. Details on biodiversity, the basic raw material for biotechnology, are discussed in a separate chapter, in

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which emphasis is placed on the genetic, species and ecosystem diversities and their conservation. Since fungi and other microbes form an important component of the overall

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biodiversity, special attention is paid to the treatment of fungi and other microbes in this volume.

Four chapters respectively deal with an overview of fungi,

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arbuscularmycorrhizae and their relation to the sustenance of plant wealth, diversity and practical applications of mushrooms, and lichens (associated with a photobiont). Microbial

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endosymbionts associated with plants and phosphate solubilizing microbes in the rhizosphere of plants are exhaustively treated in two separate chapters. The reproductive strategies of

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bryophytes and an overview on Cycads form the subject matter of another two chapters, thus fulfilling the need to deal with the non-flowering Embryophyte group of plants.

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Angiosperms, the most important group of plants from a biotechnological perspective, are examined exhaustively in this volume. The chapters on angiosperms provide an

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overview and cover the genetic basis of flowers development, pre-and post-fertilization reproductive growth and development, seed biology and technology, plant secondary metabolism,

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photosynthesis, and plant volatile chemicals. A special effort has been made to include important topics on crop improvement in this volume. The importance of pollination services,

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apomixes, male sterility, induced mutations, polyploidy and climate changes is discussed, each in a separate chapter. Microalgalnutra-pharmaceuticals, vegetable-oil-based

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nutraceuticals and the importance of alien crop resources and underutilized crops for food and nutritional security form the topics of three other chapters in this volume.

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There is also a special chapter on the applications of remote sensing in the plant sciences, which also provides information on biodiversity distribution. The editors of this volume

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believe the wide range of basic topics on plant biology that have great relevance in biotechnology covered will be of great interest to students, researchers and teachers of botany and plant

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biotechnology alike.

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date notions of seed structure, processes resulting to its formation (syngamy, triple fusion etc.), as well as of postseminal development (seed

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dormancy and germination). Great attention has been paid to the morphological and functional aspects of fertilization process and embryo- and

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endospermogenesis.

The anatomical sciences are experiencing a notable decrease in the time and resources devoted to embryology in North American medical

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education. With more changes assured, it is necessary to investigate the current trends in curriculum, pedagogy, and related experiences of embryology teachers

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and learners. To address these concerns, the researcher developed two online mixed methods surveys: one for current anatomy and embryology faculty and another for

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first year medical students. The faculty survey was followed by interviews with volunteers from that cohort. The researcher used a grounded theory

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methodology to analyze the qualitative components of the surveys, and descriptive statistics to analyze the quantitative components of the

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surveys. Both the faculty and student surveys illuminated the vast differences between the explicit, implicit, and null curricular components found in the

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numerous medical education programs represented. A combined grounded theory methodology and phenomenological approach was used to

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analyze the interviews with faculty. This generated a lived experience narrative of the phenomenon of teaching embryological content to medical

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students in the modern world, which led to a better understanding of the needs and challenges that face this subject matter and those who teach it. In this fluid

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era of medical education reform and integration, the perceptions and experiences of anatomy and embryology faculty and first year medical students are invaluable

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to assessing the curriculum and pedagogy of this foundational anatomical science and formulating evidence-based recommendations for the future.

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"Double Fertilization" provides a comprehensive overview of all aspects of this central event in the reproduction and development of flowering plants. Written by Val

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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

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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

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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

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