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Training Manual for Organic Agriculture Academic Press
This is a fast-moving field, and these detailed methods will help drive advances in stem cell research. The editors have hand selected step-by-step methods from researchers with extensive reputations and expertise. This volume, as part of the Reliable Lab Solutions series, delivers busy researchers a handy, time-saving source for the best methods and protocols in stem cells. * Provides powerful research opportunities for those interested in perusing work in pluripotent stem cells, disease modeling, and other aspects of basic stem cell research * Refines, organizes and updates popular methods from flagship series, Methods in Enzymology *Highlights top downloads, enhanced with author tips and tricks and pitfalls to avoid
BoD – Books on Demand
The production of this manual is a joint activity between the Climate, Energy and Tenure Division (NRC) and the Technologies and practices for smallholder farmers (TECA) Team from the Research and Extension Division (DDNR) of FAO Headquarters in Rome, Italy. The realization of this manual has been possible thanks to the hard review, compilation and edition work of Nadia Scialabba, Natural Resources officer (NRC) and Ilka Gomez and Lisa Thivant, members of the TECA Team. Special thanks are due to the International Federation of Organic Agriculture Movements (IFOAM), the Research Institute of Organic Agriculture (FiBL) and the International Institute for Rural Reconstruction (IIRR) for their valuable documents and publications on organic farming for smallholder farmers.
The History of Surgery Oxford University Press, USA
The book provides wide range of information on seed storage. In the beginning the biology of seeds and factors which influence seed viability and storage is explained. How the seed storage can be made more effective from the initial selection and dryingof seeds to protective measures, packaging and transportation is explanied. All type of illustrations are provided in respect of machinery and facilities commonly used in the treatment and storage of seeds. Among many other, short accounts are given of varietal variation in viability of seeds variation in tolerance of mechanical injury sustained during handling, and cytological changes which take place during storage, including the spontaneous appearance of mutations and occurrence of chromosomal abnormalities. A Well produced and thorough book likely to be valued by all PG, researchers, seed societies botanist and Agriculturists and all those who are interested about seed storage.
My Mother Made Me Do It! National Academies Press
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.
Handbook of Biological Confocal Microscopy Springer Science & Business Media
The American Anti-Vivisection Society (AAVS) petitioned the National Institutes of Health (NIH) on April 23, 1997, to prohibit the use of animals in the production of mAb. On September 18, 1997, NIH declined to prohibit the use of mice in mAb production, stating that "the ascites method of mAb production is scientifically appropriate for some research projects and cannot be replaced." On March 26, 1998, AAVS submitted a second petition, stating that "NIH failed to provide valid scientific reasons for not supporting a proposed ban." The office of the NIH director asked the National Research Council to conduct a study of methods of producing mAb. In response to that request, the Research Council appointed the Committee on Methods of Producing Monoclonal Antibodies, to act on behalf of the Institute for Laboratory Animal Research of the Commission on Life Sciences, to conduct the study. The 11 expert members of the committee had extensive experience in biomedical research, laboratory animal medicine, animal welfare, pain research, and patient advocacy (Appendix B). The committee was asked to determine whether there was a scientific necessity for the mouse ascites method; if so, whether the method caused pain or distress; and, if so, what could be done to minimize the pain or distress. The committee was also asked to comment on available in vitro methods; to suggest what acceptable scientific rationale, if any, there was for using the mouse ascites method; and to identify regulatory requirements for the continued use of the mouse ascites method. The committee held an open data-gathering meeting during which its members summarized data bearing on those questions. A 1-day workshop (Appendix A) was attended by 34 participants, 14 of whom made formal presentations. A second meeting was held to finalize the report. The present report was written on the basis of information in the literature and information presented at the meeting and the workshop.
PISA Take the Test Sample Questions from OECD's PISA Assessments Scientific Publishers - UBP
Cryopreservation has many biotechnological applications in different fields. This has led to an increase in importance of cryobiology as a science that examines the effect of ultra-low temperatures on cells, tissues, organs and organisms and also the freezability of these structures, while maintaining their viability. Nowadays it is well known that this form of biotechnology can be used to solve a lot of problems such as human infertility, life threatening diseases, preservation of gametes and DNA and also biodiversity conservation. Cryopreservation Biotechnology in Biomedical and Biological Sciences describes principles and application of cryopreservation biotechnology in different research areas and includes seven chapters that have been written by experts in their research fields. The chapters included in this book are thought to improve the current understanding of

the different areas of using cryopreservation biotechnology.
Applications of Plant Cell and Tissue Culture Cambridge University Press
The purpose of this book is to provide the advances in plant in vitro culture as related to perennial fruit crops and medicinal plants. Basic principles and new techniques, now available, are presented in detail. The book will be of use to researchers, teachers in biotechnology and for individuals interested to the commercial application of plant in vitro culture.
Plant Embryo Culture National Academies Press
From a renowned surgeon and historian with five decades of experience comes a remarkable history of surgery's development—spanning the Stone Age to the present day—blending meticulous medical studies with lively and skillful storytelling. There are not many events in life that can be as simultaneously life-frightening and life-saving as a surgical operation. Yet, in America, tens-of-millions of major surgical procedures are performed annually but few of us pause to consider the magnitude of these figures because we have such inherent confidence in surgeons. And, despite passionate debates about healthcare and the endless fascination with surgical procedures, most of us have no idea how surgeons came to be because the story of surgery has never been fully told. Now, Empire of the Scalpel elegantly reveals the fascinating history of surgery's evolution from its earliest roots in Europe through its rise to scientific and social dominance in the United States. From the 16th-century saga of Andreas Vesalius and his crusade to accurately describe human anatomy while appeasing the conservative clergy who clamored for his burning at the stake, to the hard-to-believe story of late-19th century surgeons' apathy to Joseph Lister's innovation of antisepsis and how this indifference led to thousands of unnecessary surgical deaths, Empire of the Scalpel is both a global history and a uniquely American tale. You'll discover how in the 20th century the US achieved surgical world supremacy heralded by the Nobel Prize–winning, seemingly impossible feat of transplanting a kidney and how the heart-lung machine was developed, along with much more. Today, the list of possible operations is almost infinite—from knee and hip replacement to heart bypass and transplants to fat reduction and rhinoplasty—and Rutkow draws on his five-decade career to show us how we got here. Authoritative, captivating, and comprehensive, Empire of the Scalpel portrays the evolution of surgery in all its dramatic and life-enhancing complexity and shows that its history is truly one awe-inspiring triumph after another.
Essential Stem Cell Methods Springer Science & Business Media
Once the second edition was safely off to the printer, the 110 larger world of micro-CT and micro-MRI and the smaller world authors breathed a sigh of relief and relaxed, secure in the belief revealed by the scanning and transmission electron microscopes. that they would "never have to do that again. " That lasted for 10 To round out the story we even have a chapter on what PowerPoint years. When we ?nally awoke, it seemed that a lot had happened. does to the results, and the annotated bibliography has been In particular, people were trying to use the Handbook as a text- updated and extended. book even though it lacked the practical chapters needed. There As with the previous editions, the editor enjoyed a tremendous had been tremendous progress in lasers and ?ber-optics and in our amount of good will and cooperation from the 124 authors understanding of the mechanisms underlying photobleaching and involved. Both I, and the light microscopy community in general, phototoxicity. It was time for a new book. I contacted "the usual owe them all a great debt of gratitude. On a more personal note, I suspects" and almost all agreed as long as the deadline was still a would like to thank Kathy Lyons and her associates at Springer for year away.
Plant Genetic Engineering Springer Science & Business Media
Scale-Up and Automation in Plant Propagation reviews methods of automation and scale-up of plant propagation in vitro. It looks at the large scale clonal propagation of plants, or micropropagation, as the first major practical application of plant biotechnology. It also discusses the advantages and limitations of micropropagation and evaluates current methods of commercial micropropagation. Organized into 13 chapters, this volume begins with an overview of the benefits of scaling up and automating plant propagation before proceeding with a discussion of synthetic seeds and their use for plant propagation, along with problems and economic considerations associated with synthetic seed technology. It then considers the implementation of somatic embryogenesis technology for clonal forestry, the development and commercialization of bioreactor technology for automated propagation of potato microtubers and lily microbulbs, and approaches to automated propagation of fruit trees. Other chapters focus on issues of cost reduction and development of ""new"" products, scale-up and operation of prototype bioreactors for plant propagation, and application of machine vision technology to scale-up and automated evaluation of somatic embryogenesis in sweet potato. The book also describes methods of measurement and control of the environment in culture, environmental factors affecting photosynthesis, and use of robotics and field transplanters in the automation of plant propagation. Scientists and plant breeders will find this book extremely useful.
Plant Cell, Tissue and Organ Culture Simon and Schuster
Quality Control of Mammalian Oocyte Meiotic Maturation: Causes, Molecular Mechanisms and SolutionsFrontiers Media SAVertebrate MyogenesisSpringer Science & Business Media
Cryopreservation Biotechnology in Biomedical and Biological Sciences BoD – Books on Demand
This valuable new book from ACGIH covers health studies, hazard control technology of manufacturing processes, catastrophic releases, and emerging technologies. An integral part of the industrial hygiene science series, this book will be of special interest to industrial hygienists, safety personnel, equipment and material suppliers, researchers, and government agencies.
Cryopreservation in Eukaryotes BoD – Books on Demand
Eggs of all animals contain mRNAs and proteins that are supplied to or deposited in the egg as it develops during oogenesis. These maternal gene products regulate all aspects of oocyte development, and an embryo fully relies on these maternal gene products for all aspects of its early development, including fertilization, transitions between meiotic and mitotic cell cycles, and activation of its own genome. Given the diverse processes required to produce a developmentally competent egg and embryo, it is not surprising that maternal gene products are not only essential for normal embryonic development but also for fertility. This review provides an overview of fundamental aspects of oocyte and early embryonic development and the interference and genetic approaches that have provided access to maternally regulated aspects of vertebrate development. Some of the pathways and molecules highlighted in this review, in particular, Bmps, Wnts, small GTPases, cytoskeletal components, and cell cycle regulators, are well known and are essential regulators of

multiple aspects of animal development, including oogenesis, early embryogenesis, organogenesis, and reproductive fitness of the adult animal. Specific examples of developmental processes under maternal control and the essential proteins will be explored in each chapter, and where known conserved aspects or divergent roles for these maternal regulators of early vertebrate development will be discussed throughout this review. Table of Contents: Introduction / Oogenesis: From Germline Stem Cells to Germline Cysts / Oocyte Polarity and the Embryonic Axes: The Balbiani Body, an Ancient Oocyte Asymmetry / Preparing Developmentally Competent Eggs / Egg Activation / Blocking Polyspermy / Cleavage/ Mitosis: Going Multicellular / Maternal-Zygotic Transition / Reprogramming: Epigenetic Modifications and Zygotic Genome Activation / Dorsal-Ventral Axis Formation before Zygotic Genome Activation in Zebrafish and Frogs / Maternal TGF- and the Dorsal-Ventral Embryonic Axis / Maternal Control After Zygotic Genome Activation / Compensation by Stable Maternal Proteins / Maternal Contributions to Germline Establishment or Maintenance / Perspective / Acknowledgments / References"

A Laboratory Guide Unipub

The present status of rapeseed-mustard crops as the third most important source of edible oils is attributable to the success of plant breeders and associate researchers in developing high yielding varieties with improved quality and resistance to biotic and abiotic stresses. However, the need to maximize the production gains and quality at lower economic costis greater than ever before. "Breeding Oilseed Brassicas" was thus conceived to review the past accomplishments in order to identify research gaps and suggest ways and means to meet the challenge of sustainable productivity upgradation. Theoretical and applied aspects ofbreeding, genetics, cytogenetics, crop physiology, and biotechnology are covered. The emphasis is on the application of theoretical knowledge to the solution of problems that confront the Brassica breeders.

Harzard Assessment & Control Technology in Semicondoctor Manufacturing Frontiers Media SA

This text elucidates the latest techniques in plant virology for the isolation of plant viruses, for RNA extraction, and for the localization and cloning of coat protein genes, among others.

Introduction to Cell and Tissue Culture Springer Science & Business Media

An ethologist shows man to be a gene machine whose world is one of savage competition and deceit

Plant Genetic Engineering Cambridge University Press

Pluripotent stem cells have the potential to revolutionize treatment options for a range of diseases and conditions. This book presents recent advances in our understanding of the biological mechanisms of stem cell self-renewal, reprograming and regeneration. Also covered are novel methodological advances in the culture, purification and use of stem cells, as well as the ethical and moral dilemmas of embryo donation and adoption. These advances will shape the utilization of stem cells for future basic and applied applications.

Training Manual for Embryo Transfer in Cattle John Wiley & Sons

Breeding Sorghum for Diverse End Uses is a comprehensive overview of all significant global efforts for the genetic improvement of sorghum, a major crop of many semi-arid nations that is suitable for a huge range of uses, from human food, to biofuels. Split into two main sections, the book initially reviews the genetic suitability of sorghum for breeding, also providing the history of the genetic improvement of the grain. Finally, other sections look at specific breeding programs that could be improved in a number of areas, including human food, animal feed and industrial usage. Readers in academics, research, plant genetics and sorghum development will find this resource of great value. In addition, it is essential reading for engineers who utilize sorghum for food, feed and industrial materials in industry. Provides information on key advances in the genetic makeup of sorghum Allows plant breeders to apply this research to effectively breed new strains of sorghum that are dependent on final usage goals Includes the latest findings in each section to orient researchers to plans for future genetic enhancement

Cell Culture and somatic cell Genetics of Plants Academic Press

This manual is a comprehensive compilation of "methods that work" for deriving, characterizing, and differentiating hPSCs, written by the researchers who developed and tested the methods and use them every day in their laboratories. The manual is much more than a collection of recipes; it is intended to spark the interest of scientists in areas of stem cell biology that they may not have considered to be important to their work. The second edition of the Human Stem Cell Manual is an extraordinary laboratory guide for both experienced stem cell researchers and those just beginning to use stem cells in their work. Offers a comprehensive guide for medical and biology researchers who want to use stem cells for basic research, disease modeling, drug development, and cell therapy applications. Provides a cohesive global view of the current state of stem cell research, with chapters written by pioneering stem cell researchers in Asia, Europe, and North America. Includes new chapters devoted to recently developed methods, such as iPSC technology, written by the scientists who made these breakthroughs.

Pluripotent Stem Cell Biology Springer Science & Business Media

It is a pleasure to contribute the foreword to Introduction to Cell and Tissue Culture: The ory and Techniques by Mather and Roberts. Despite the occasional appearance of thought ful works devoted to elementary or advanced cell culture methodology, a place remains for a comprehensive and definitive volume that can be used to advantage by both the novice and the expert in the field. In this book, Mather and Roberts present the relevant method ology within a conceptual framework of cell biology, genetics, nutrition, endocrinology, and physiology that renders technical cell culture information in a comprehensive, logical for mat. This allows topics to be presented with an emphasis on troubleshooting problems from a basis of understanding the underlying theory. The material is presented in a way that is adaptable to student use in formal courses; it also should be functional when used on a daily basis by professional cell culturists in a- demia and industry. The volume includes references to relevant Internet sites and other use ful sources of information. In addition to the fundamentals, attention is also given to mod ern applications and approaches to cell culture derivation, medium formulation, culture scale-up, and biotechnology, presented by scientists who are pioneers in these areas. With this volume, it should be possible to establish and maintain a cell culture laboratory devot ed to any of the many disciplines to which cell culture methodology is applicable.

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