



REPRODUCTIVE **TISSUE BANKING**

Scientific Principles



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Reproductive Tissue Banking Scientific Principles

Umut TAŞDEMİR



Reproductive Tissue Banking Scientific Principles:

Reproductive Tissue Banking, 1997 **Reproductive Tissue Banking** Armand M. Karow, John K. Critser, 1997-03-20

Reproductive technologies to assist in both human conception and animal breeding are increasingly in demand. These technologies along with the advent of tissue engineering have propelled the challenges of tissue collection, preservation, and banking to the research forefront. Using examples drawn from reproductive technologies, *Reproductive Tissue Banking* presents the scientific principles underlying tissue banking. These examples serve as models for the technology of banking other living tissues, including blood, bone marrow, cornea, and skin. In discussing research emerging from their laboratories and those of others, the authors meld fundamentals of biology, chemistry, and physics with the latest discoveries in the field to give the reader profound insight into research directions and ethical considerations crucial to the advancement of tissue banking. With its emphasis on human applications and concerns, this book provides a valuable supplement to short courses on tissue preservation and tissue engineering. Researchers in reproductive medicine, animal and veterinary science, and cryobiology will find this book, with its extensive bibliography, a very handy reference. Written by leading international researchers, it provides insightful discussions on reproductive tissue banking. Presents comprehensive citations to relevant literature, both current and historic. Discusses in vitro preservation of spermatozoa, oocytes, embryos, and gonadal tissues of mammals. Contains coverage of ethical considerations from a discussion of the splitting of embryos to an exploration of the protection of biodiversity.

Reproductive Science and Integrated Conservation W. V. Holt, 2003

Reproduction is essential to the continuation and evolution of life on this planet and is therefore a centrally important process in the conservation of wildlife. However, reproductive mechanisms are well understood in only a handful of vertebrate species, mostly domestic livestock and laboratory animals. This means that attempts to develop and implement management policies for wildlife conservation, and especially for endangered species that by definition are difficult to study, are often based on poor data or no data at all. In *Reproductive Science and Integrated Conservation*, leading authorities provide glimpses of reproductive diversity in fishes, amphibians, reptiles, birds, and mammals. Conservation plans are founded on the assumption that reproduction will be successful, but what if it fails? This book reviews the many factors that influence reproduction, including genetics, behaviour, and nutrition, and experts assess the potential conservation relevance of the recent rapid advances in reproductive technology and medicine.

Reproductive Sciences in Animal Conservation William V. Holt, Janine L. Brown, Pierre Comizzoli, 2014-08-04

Reproductive biology is more than the development of techniques for helping with too little or too much breeding. While some of the relevant techniques are useful for individual species, technical developments have to be backed up by thorough biological understanding of the background behind the problems. This book is therefore threefold: 1) it provides a snapshot of the state of the art in terms of species-specific reproductive technologies, whether for individual animals or whole taxonomic groups; 2) it sets the reproductive problems in context and emphasizes the links

between animal based problems and the wider world e.g reproductive fitness and 3 it looks forward and presents realistic assessments of how effective some of the more recently developed techniques in reproductive technology might be at combating extinctions This is a wide ranging book that will be relevant to anyone involved in reproductive biology or in species conservation and provides provide them some useful perspectives about the real utility of current and emerging technologies It has contributions from experts in reproduction and related fields Oncofertility Teresa K. Woodruff, Karrie Ann Snyder, 2007-09-11 In the past pregnancy after cancer was largely unheard of Today it is increasingly a possibility Oncofertility has emerged as an interdisciplinary field bridging biomedical and social sciences and examining issues regarding an individual's fertility options choice and goals in light of cancer diagnosis treatment and survivorship Written by leaders in this evolving field the volume covers various aspects medical ethical and social **Cryopreservation and Freeze-Drying Protocols** John G. Day, Glyn Stacey, 2007-06-05 In addition to outlining the fundamental principles associated with the conservation of biological resources freeze drying and cryopreservation this text is a compilation of cryopreservation and freeze drying methodologies applicable to different biological materials developed by expert laboratories Advances in Biopreservation John G. Baust, John M. Baust, 2006-08-15 Moving rapidly from science fiction to science fact cryopreservation is an integral part of many research development and production processes in industry and academia The preservation sciences have emerged as an interdisciplinary platform that incorporates the fundamentals of cell and molecular biology and bioengineering with the classic met **Life in the Frozen State** Barry J. Fuller, Nick Lane, Erica E. Benson, 2004-05-10 While it is barely 50 years since the first reliable reports of the recovery of living cells frozen to cryogenic temperatures there has been tremendous growth in the use of cryobiology in medicine agriculture horticulture forestry and the conservation of endangered or economically important species As the first major text on cryobiology The Role of Biotechnology in Exploring and Protecting Agricultural Genetic Resources John Ruane, Andrea Sonnino, 2006-01-01 Chapters 1 to 14 of in this book are based on papers presented at Sessions I II and IV of an international workshop held from 5 to 7 March 2005 entitled The Role of Biotechnology for the Characterisation and Conservation of Crop Forestry Animal and Fishery Genetic Resources organized by the FAO Working Group on Biotechnology FAO WGB the Fondazione per le Biotechnologie and the Italian Society of Agriculture Genetics SIGA The workshop took place at the Villa Gualino Congress Center in Turin Italy The remaining two chapters 15 and 16 are from the e mail conference organized by the FAO WGB roughly three months after the Turin workshop P xi *Re-Creating Medicine* Gregory E. Pence, 2007-05-30 In this important new book Gregory E Pence looks at issues on the frontiers of medicine including gene therapy to produce brave new babies cloning human eggs and embryos for sale and experiments on human embryos Pence argues that the conservatism of the medical establishment the bioethics community and the public at large has created shibboleths that impede improvements in our quality of life *Biennial Review of Infertility* Douglas T. Carrell, Peter N. Schlegel, Catherine Racowsky, Luca

Gianaroli, 2015-06-26 Now in its fourth volume the Biennial Review of Infertility brings together the most up to date research and clinical information on male and female infertility emerging assisted reproductive techniques and evolving controversies in reproductive medicine An impressive panel of contributors presents cutting edge information in a clear and well balanced manner Volume 4 discusses hot topics in contemporary reproductive medicine including stem cell technologies for male infertility the current state of ovarian tissue cryopreservation and time lapse video microscopy of embryos The expanded section on controversies allows for point counterpoint discussion between experts with differing opinions on topics like eSET and the use and role of dietary supplements in IVF cycles Created to provide an ongoing appraisal of current knowledge the Biennial Review of Infertility stimulates communication amongst all clinicians and researchers working to help couples resolve their infertility Cryopreservation of Semen for Farm Animals Umut TAŞDEMİR, **Infertility Management Series: Basic Laboratory Procedure in ART** Juan A Garcia-Velasco, Manish Banker, Irene Rubio Palacios, Javier Herrero Zapata, 2018-07-31 Part of the recognised Infertility Management Series this handbook is a complete guide to basic laboratory procedures in assisted reproductive technology ART The book guides clinicians step by step through the processes beginning with discussion on semen analysis cryopreservation of semen samples and semen selection to embryo culture selection and transfer and oocyte and embryo vitrification The final chapters cover time lapse imaging a new technology for embryo development design and equipment for the laboratory and future developments in ART laboratory procedures including the development of gametes from stem cells Compiled by a recognised team of editors and contributors the text is enhanced by clinical photographs illustrations and tables Other titles in the series include Investigating Infertility Intrauterine Insemination Practical Management of Male Infertility Polycystic Ovarian Syndrome Handbook of Ovarian Stimulation and Abnormalities of the Pelvis Key points Part of Infertility Management Series providing complete guide to basic laboratory procedures in ART Guides clinicians step by step through the various processes Highly illustrated with photographs diagrams and tables Edited by recognised team of experts in reproductive medicine *Cryopreservation in Eukaryotes* Francisco Marco-Jimenez, Hulya Akdemir, 2016-11-30 Since accidentally discovering the ability of glycerol on protecting cells from freezing damage many researchers have been pursuing to develop cryopreservation methods of a very wide range of cells and some tissues and these have found widespread applications in biology and medicine From the point of view of living organisms cryopreservation is a useful tool for ex situ conservation of genetic resources together with its contribution on conservation of their biodiversity Cryopreservation in Eukaryotes includes totally 12 chapters which have been written by the expert researchers in the field The chapters are a comprehensive collection of the most frequently used methods for eukaryotes With this book every researcher will better understand the principles background and current status of cryopreservation in particular organisms **Assisted Reproductive Technology** Christopher J. De Jonge, Christopher L. R. Barratt, 2002-07-11 This text describes the rapid advances that have revolutionized reproductive medicine due to the

result of converging and overlapping developments in reproductive biology molecular biology and genetics Infertility in the Male Larry I. Lipshultz, Stuart S. Howards, Craig S. Niederberger, Dolores J. Lamb, 2023-06-15 This gold standard text has kept its readers abreast of rapid advancements in reproductive medicine and surgery since 1983 Continuing this tradition this fifth edition has been fully updated and revised to provide clear didactic advice on best practice for a variety of clinical situations faced by practitioners across many specialties including urologists gynecologists reproductive endocrinologists medical endocrinologists and many in internal medicine and family practice who see men with suboptimal fertility and reproductive problems Completely restructured to include pedagogical features such as easily accessible key concepts that cement understanding and real world use Covering everything from foundations of anatomy and embryology through clinical evaluation diagnostic approaches treatment and fertility care in context within the healthcare system and society thrilling advances and future directions are also included This new edition is an essential reference for all who are working in this young and rapidly evolving field *Current Frontiers in Cryopreservation* Igor Katkov, 2012-03-14 Almost a decade has passed since the last textbook on the science of cryobiology *Life in the Frozen State* was published Recently there have been some serious tectonic shifts in cryobiology which were perhaps not seen on the surface but will have a profound effect on both the future of cryobiology and the development of new cryopreservation methods We feel that it is time to revise the previous paradigms and dogmas discuss the conceptually new cryobiological ideas and introduce the recently emerged practical protocols for cryopreservation The present books *Current Frontiers in Cryobiology* and *Current Frontiers in Cryopreservation* will serve the purpose This is a global effort by scientists from 27 countries from all continents and we hope it will be interesting to a wide audience **Essential Zebrafish Methods: Genetics and Genomics** H. William Detrich III, Leonard I. Zon, Monte Westerfield, 2009-09-05 Due to its prolific reproduction and the external development of the transparent embryo the zebrafish is the prime model for genetic and developmental studies as well as research in genomics While genetically distant from humans nonetheless the vertebrate zebrafish has comparable organs and tissues that make it the model organism for study of vertebrate development This book one of two new volumes in the *Reliable Lab Solutions* series dealing with zebrafish brings together a robust and up to date collection of time tested methods presented by the world's leading scientists Culled from previously published chapters in *Methods in Cell Biology* and updated by the original authors where relevant it provides a comprehensive collection of protocols describing the most widely used techniques relevant to the study of zebrafish genetics and genomics The methods in this volume were hand selected by the editors whose goal was to provide a handy and cost effective collection of fail safe methods tips and tricks of the trade to both experienced researchers and more junior members in the lab Provides busy researchers a quick reference for time tested methods and protocols that really work updated where possible by the original authors Gives pragmatic wisdom to the non specialist from experts in the field with years of experience with trial and error **Biology and Pathology of the Oocyte**

Alan O. Trounson, Roger G. Gosden, 2003-07-10 The human oocyte or egg is the rarest and most rapidly ageing cell in the body and yet one that is essential for fertility This book is about the development biology and pathology of the oocyte and new technologies to manipulate enhance and control fertility These technologies are paving the way for overcoming infertility avoiding inherited diseases and creating genetically engineered animals from embryo stem cells and cloning This progress would have been impossible without the myriad of scientific and technical developments covered in this book including the ability to manipulate and fertilize oocytes in vitro World leading experts have contributed to the first book for many years on basic and applied science of the egg its clinical manipulation and its pivotal role in reproductive medicine and biology It will be an essential reference for scientists and clinicians in reproductive medicine and animal breeding technology and everyone involved in treating infertility

In-Vitro Fertilization Kay Elder, Brian Dale, 2020-03-12 This extensively updated new edition provides an indispensable account of modern in vitro fertilization practice building upon the popularity of previous editions The authors initially give a comprehensive review of the biology of human gametes and embryos before outlining basic to advanced IVF techniques New developments in practical techniques and understanding are discussed including in vitro maturation vitrification preservation of fertility for cancer patients stem cell technology preimplantation genetic testing and the role of epigenetics and imprinting The revised introduction also incorporates a refresher study review of fundamental principles of cell and molecular biology now updated with current knowledge of meiosis in human oocytes embryo metabolism and basic principles of genome editing With high quality illustrations and extensive up to date reading lists it is a must have textbook for trainee and practising embryologists as well as clinicians who are interested in the scientific principles that underpin successful IVF

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