

# Laboratory Production Of Cattle Embryos

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## **The Buffalo (*Bubalus bubalis*) - Production and Research** - Giorgio A. Presicce 2017-03-31

This handbook aims at focusing on the husbandry of the common water buffalo, (*Bubalis bubalis*). The book covers a broad range of topics such as the buffalo's genetic evolution, cytogenetics, subspecies, breed diversification, feeding and metabolic specificity, adaptable

response to environmental stress factors, welfare, dairy requirements and production, reproduction and embryo technologies, cryopreservation, sperm cell sexing, somatic cell cloning and transgenesis. Chapters presented and reviewed in this book have been by contributed by renowned scientists that have devoted years of research to the understanding

of this species, and highlight the most recent advances in basic and applied science to unveil the understanding of physiological facets intrinsic to this animal species. The depth of the selected topics makes this book especially suited for readers of all academic levels of study. Researchers, students and professionals will find this book a useful guide to breeding and farming the water buffalo.

Biological Resource Management in Agriculture  
Mammalian Embryo Genomics - OECD

2003-10-13

This book contains the proceedings of the first International Meeting on Mammalian Embryo Genomics, held in Quebec City, Canada, on July 20, 2002, which brought together a group of internationally recognised scientists in the genomics field. The objective was to coordinate activities in the field.

**Intellectual Property Rights in Agricultural Biotechnology** - Frederic H. Erbisch 2004

During the past twenty-five years, biotechnology

has revolutionized agricultural research. The enormous potential, together with a landmark decision by the US Supreme Court to allow the patenting of genetically-engineered organisms has encouraged private sector companies to invest in research programmes. This book (first edition in 1998) is now fully revised and updated, with five completely new chapters. It presents definitive information on intellectual property law in a simplified form.

**Reproduction in Cattle** - Peter J. H. Ball

2008-04-15

Cattle play a fundamental role in animal agriculture throughout the world. They not only provide us with a vital food source, but they also provide us with fertilizer and fuel. Keeping reproduction levels at an optimum level is therefore essential, but this is often a complicated process, especially with modern, high yielding cows. Written in a practical and user-friendly style, this book aims to help the reader understand cattle reproduction by

explaining the underlying physiology of the reproductive process and the role and importance of pharmacology and technology, and showing how management techniques can improve reproductive efficiency. This edition includes: Recent research findings on the physiology of the oestrous cycle and its control; New techniques for monitoring and manipulating reproduction, including pregnancy diagnosis and embryo transfer; Advice on identifying common infertility problems and how to prevent and treat them. *Reproduction Cattle 3e* is essential reading for veterinary and agricultural students, as well as veterinarians and farmers involved in cattle reproduction. *Comparative Reproductive Biology* - Heide Schatten 2008-03-21

When considering the physiological systems of the body, the degree of species variation within the reproductive system compared to other systems is remarkable. Furthermore, it is essential that researchers, educators, and

students alike remain aware of the fundamental comparative differences in the reproductive biology of domestic species. Written by renowned scientists in their respective fields, *Comparative Reproductive Biology* is a comprehensive reference on the reproductive systems of domestic species. The book offers both broad and specific knowledge in areas that have advanced the field in recent years, including advances in cell and molecular biology applied to reproduction, transgenic animal production, gender selection, artificial insemination, embryo transfer, cryobiology, animal cloning and many others. This seminal text includes topics in animal reproduction that are usually only found as part of other books in animal science such as anatomy, histology, physiology, radiology, ultrasonography, and others. Comprehensive reference of the reproductive systems of domestic species. Written by a team of top researchers Richly illustrated throughout, including 12 pages of

color images

## **Cryopreservation of Immature Bovine**

**Oocytes** - Sofia Teixeira 2014-12-17

Azores live in much from agriculture, mainly from cattle production, counting 249,000 cattle across the archipelago, being the major source of milk and red meat. To improve economic production, and the efficiency of explorations, embryo's production are very important, as it allows multiplying the number of descendants of a cow's elite from, reaching a twenty calves per year per cow. In the other hand, females in puberty can be used even without having gestational age. The present book provides a detailed research on in vitro production of bovine embryos, studying the changes occurred in the oocyte morphology during its maturation, the stages of embryonic development after fertilization and the developmental kinetics of the in vitro produced embryos. This book "Cryopreservation of immature bovine oocytes" can be considered as a laboratory guide for most

sufficient procedures for in vitro technique to produce bovine embryos in vitro, as well as techniques involving freezing of bovine oocytes followed by maturation and IVF after oocyte's thawing.

*Encyclopedia of Animal Science - (Two-Volume Set)* - Wilson G. Pond 2018-10-08

PRINT/ONLINE PRICING OPTIONS AVAILABLE UPON REQUEST AT e-

reference@taylorandfrancis.com Containing case studies that complement material presented in the text, the vast range of this definitive Encyclopediaencompasses animal physiology, animal growth and development, animal behavior, animal reproduction and breeding, alternative approaches to animal maintenance, meat science and muscle biology, farmed animal welfare and bioethics, and food safety. With contributions from top researchers in their discipline, the book addresses new research and advancements in this burgeoning field and provides quick and reader-friendly

descriptions of technologies critical to professionals in animal and food science, food production and processing, livestock management, and nutrition.

### **Trends and Advances in Veterinary Genetics**

- Muhammad Abubakar 2017-03-22

It is very important to understand the recent advances and basic concepts of veterinary genetics to explore the possibilities for control of diseases in animals. They are also significant for enhancing animal production and reproduction. Our book Trends and Advances in Veterinary Genetics provides a concise introduction and details to the aspects of genetics relevant to animal science and production. This is the first edition of the book so it covers the introductory level of topics which are ideal for veterinary students, classroom use, and practitioners who require more guidance with genetics. The book coverage includes the following main sections: Biotechnology and Reproductive Genetics, Advances in Embryonic Genetics, Conservation

and Basic Genetics, and Veterinary Genetics and Future. Each book section comprises two chapters from renowned experts from the area and gives readers a unique opportunity to explore the topic.

### **Laboratory Production of Cattle Embryos -**

Ian Gordon 2003-01-01

3000 new references added since the first edition Gives information necessary to produce embryos totally through in vitro techniques Shows commercial applications of embryo and oocyte research Cattle remain at the forefront of many new developments in reproductive technology and what can be done for the cow today will later be applicable to other farm livestock and perhaps humans. This new edition reviews the considerable advances and issues in embryo production technology, based on reports since the first edition in 1994. This is a must have volume for those who own the first edition, and in itself an incredibly informative text.

### **Emerging Issues in Climate Smart Livestock**

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**Production** - Sukanta Mondal 2021-12-15  
Emerging Issues in Climate Smart Livestock Production: Biological Tools and Techniques furnishes a detailed reference on livestock sustainability and the role of biotechnology for creating more sustainable livestock production systems. The book is a collection of scientific techniques, including genetic engineering used to modify and improve animals, fishes, and microorganisms for human benefit. The book is particularly attractive for scientists, researchers, students, educators, and professionals in agriculture, veterinary, and biotechnology science. This book promotes several biotechnological approaches that can easily be evaluated in the field for quality assurance programs beneficial to producing livestock products and overall public health. Biotechnology has the potential to improve the productivity of animals via increased growth, carcass quality and reproduction, improved nutrition and feed utilization, improved food

quality and safety, improved animal health and welfare, and reduced waste through more efficient utilization of resources. Identifies and explores biotechnological approaches for sustainable livestock and fish production Focuses on strategies for enhancing livestock and fishery productivity and sustainability Presents the latest research on modern methods and technologies

**Oocyte Physiology and Development in Domestic Animals** - Rebecca Krisher  
2013-02-19

Oocyte Physiology and Development in Domestic Animals reviews the most recent advances in the research of physiological and biochemical mechanisms underlying oocyte growth and development, providing readers with the fundamental understanding of these key processes and summarizing this important field of research. The book covers multiple molecular and physiological mechanisms including initiation of oocyte growth during

folliculogenesis and in vitro follicle culture to support oocyte competence, that are critical to health and quality. Physiological process ranging from gene expression to metabolism will be covered with an eye toward using these factors to uncover biomarkers that will further advance the field. In addition, the text looks at the effects of in vitro maturation environments on oocyte quality and developmental outcome.

**Reproductive Tissue Banking** - Armand M. Karow 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 \* 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

*Veterinary Embryology* - T. A. McGeady  
2017-02-06

*Veterinary Embryology*, 2nd Edition, has been updated to reflect the many changes that have developed in the field; the text has been fully revised and expanded and is now in full colour and many pedagogical features and a companion website have been developed. A new edition of this highly successful student textbook, updated to reflect the latest developments in the field of embryology, with the inclusion of four new chapters Written by a team of authors with extensive experience of teaching this subject Short concise chapters on key topics describe complex concepts in a user-friendly way Additional tables, flow diagrams and numerous hand-drawn illustrations support the concepts presented in the text

**The Biotechnology Revolution in Global Agriculture** - Peter W. B. Phillips 2001-01-01  
Biotechnology processes are fundamentally changing the nature of the products being produced in the industry. Canola has been developed in Canada through such processes. It is a type of rapeseed that has an enhanced level of mono-unsaturated fatty acids, thus producing a healthier oil for human consumption. It is now being introduced to many other countries. This book reviews for the first time the global canola sector in order to identify fundamental trends resulting from the adoption of biotechnology. It examines the canola sector over an extended period, looking at: its local origins regional growth and international expansion analyses of public policy affecting commercialisation estimates of the costs and benefits of changes. It is essential reading for government and industry researchers and students involved in the areas of agricultural economics, plant biotechnology and crop

science.

**Cattle Embryo Transfer Procedure** - John L. Curtis 1991

This comprehensive, step-by-step laboratory training manual brings all the elements for a successful embryo transfer program together in a simple, organized, illustrated format. For the last several decades, artificial insemination has allowed genetic progress to be achieved relatively quickly through the widespread and efficient use of frozen semen. As a result of the advancement of embryo transfer (ET) techniques, cows can produce many offspring. A more rapid genetic gain is achieved which complements an artificial insemination program.

**Assessment of Mammalian Embryo Quality** - A. van Soom 2012-12-06

Thanks to enormous scientific efforts of the last decades, in vitro fertilization (IVF) and in vitro production (IVP) have now been introduced successfully in the practice of human infertility treatment and cattle breeding programs. This

comprehensive book allows us to bridge the knowledge from both biomedical and veterinary fields of research. For the first time, studies concerning the human embryo as well as embryos from domestic species are brought together. The central theme of the book is "the assessment of mammalian embryo quality". In 15 chapters, written by well-known scientists, different aspects of the assessment of mammalian embryo quality are summarized. Non-invasive and invasive techniques to evaluate embryo quality are separated in two parts. In addition the book is provided with appendices on practical aspects and, thus, the book should be present in each laboratory for IVF and IVP.

**Regulation of Implantation and Establishment of Pregnancy in Mammals** - Rodney D. Geisert 2015-10-08

Over the past few decades technological advances in transcriptomics, proteomics, metabolomics, and glycomics along with the ability to selectively knockout genes of interest

has greatly advanced our understanding of maternal-conceptus interactions that are essential for the establishment and maintenance of a successful pregnancy. This knowledge provides a foundation from which to build research endeavors to help resolve infertility, embryonic loss and recurrent abortion in humans, captive wild animals and important farm species. The present volume on "Regulation of Implantation and Establishment of Pregnancy in Mammals" brings together current reviews from leading experts to address the diversity of mechanisms by which species establish and maintain pregnancy. Implantation in rodents, dogs, pigs, cattle, sheep, horses, primates, humans and embryonic diapause in wild species are discussed. Reviews will provide current knowledge on the role of endometrial steroid receptors, adhesion factors, cytokines, interferons, steroids, prostaglandins, growth factors and immune cells involved with regulation of conceptus development.

### **Principles of Cattle Production, 3rd Edition**

- Clive J C Phillips 2018-11-02

This edition is expanded to include more on animal welfare, sustainability and production systems in low and middle income countries, including smallholder production systems. - Has undergone a thorough review of all the existing chapters, with new content on the future role of cattle. - Contains quality colour illustrations, so that key information can be found at a glance. - Is beautifully written with many examples and pointers for further information. - Tackles key issues of sustainability and the requirement for increased production.

*Laboratory Production of Cattle Embryos* - Ian Gordon 1994-01-01

This book is devoted to technologies which are still developing but which are likely to take over from artificial insemination as the farmer's main tool to produce large numbers of high-quality calves. Cattle oocyte recovery, in vitro fertilization and embryo transfer are techniques

which permit cows to produce calves of a genetic quality and composition quite unlike that of the surrogate mother herself. They also enable cows, under suitable conditions, to produce two calves rather than one. There are now over one hundred laboratories involved in producing cattle embryos by in vitro maturation and fertilization of oocytes. Indeed the author's own work has led to the establishment of a biotechnology company which has commercialized the production process. Based on a comprehensive review of the literature, this book presents current knowledge of the laboratory production of cattle embryos and the way in which such embryos might be used in commercial application and research. It is shown that the processes may be the starting point for many other developments in cattle breeding and in the future be applied to other farm animals and also humans. The book, written by one of the world's leading authorities on the subject, is a major reference work for

those in the academic and commercial sectors concerned with animal breeding, reproduction and biotechnology.

**Culture Media, Solutions, and Systems in Human ART** - Patrick Quinn 2014-03-27

This volume describes culture media and solutions used in human ART; how they have been developed for in vitro human pre-implantation embryo development, the function and importance of the various components in media and solutions and how they interact, and how the systems in which these are used can influence outcomes. Chapters discuss inorganic solutes, energy substrates, amino acids, macromolecules, cytokines, growth factors, buffers, pH, osmolality, and the interaction of these parameters. The role of incubators and other physical factors are reviewed, along with the relevance and prospects of emerging technologies: morphokinetic analysis using time-lapse imaging and dynamic fluid incubation systems. Results of prospective randomized

trials are emphasized to ascertain the added value of these techniques for selecting viable embryos. This comprehensive guide will be invaluable for embryologists, physicians and all personnel involved in the fluid products used in human ART seeking to optimize their successful use of these components.

**Troubleshooting and Problem-Solving in the IVF Laboratory** - Kay Elder 2015-06-18

Helping IVF laboratories and clinics to maintain the highest success rates possible, this is essential reading for every IVF laboratory.

**Animal Biotechnology and Ethics** - Alan J. Holland 2012-12-06

Advanced biomedical techniques such as genetic engineering are now used extensively in animal related research and development. As the pace of development has quickened, there has been growing public anxiety about the ethical issues involved. *Animal Biotechnology and Ethics* draws together in one book some of the leading themes and issues which have emerged in the

recent debates surrounding biotechnology as applied to animals. With contributions from authors of many different viewpoints, the subject is given a thorough and balanced treatment.

Among those to whom the book will be of particular interest are practitioners of animal biotechnology, and those whose interest lies in assessing its credentials, such as philosophers and social or political scientists. It also has a great deal to interest policy-makers and pressure groups, as well as more general readers. The strong chapters on the legal and regulatory framework will make it useful to those involved in advising on company policy, patenting or litigation.

**The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals** - Robert C. Hubrecht 2010-01-19

The seminal reference on the care of laboratory and captive animals, *The UFAW Handbook on the Care and Management of Laboratory and Other*

Research Animals is a must-have for anyone working in this field. The UFAW Handbook has been the definitive text since 1947. Written for an international audience, it contains contributions from experts from around the world. The book focuses on best practice principles throughout, providing comprehensive coverage, with all chapters being peer reviewed by anonymous referees. As well as addressing the husbandry of laboratory animals, the content is also of great value to zoos and aquaria. Changes for the eighth edition: Revised and updated to reflect developments since publication of the previous edition. New chapters on areas of growing concern, including: the 3Rs; phenotyping; statistics and experimental design; welfare assessment; legislation; training of people caring for lab animals; and euthanasia. All material combined into one volume for ease of reference. This book is published on behalf of UFAW (The Universities Federation for Animal Welfare), with whom we also publish

the UFAW/Wiley-Blackwell Animal Welfare Book Series. This major series of books provides an authoritative source of information on worldwide developments, current thinking and best practice in the field of animal welfare science and technology. For details of all of the titles in the series see <http://www.wiley.com/go/ufaw> www.wiley.com/go/ufaw/a.

**Life in the Frozen State** - Barry J. Fuller  
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

Principles of Cloning - Jose Cibelli 2002-09-14  
Principles of Cloning is the first comprehensive book on animal cloning since the creation of

Dolly. The contributing authors are the principal investigators on each of the animal species cloned to date, and are expertly qualified to present the state-of-the-art information in their respective areas. Editors Cibelli, Lanza and West garnered worldwide spotlight late in 2001 when their company, Advanced Cell Technology, announced the successful engineering of the world's first cloned human embryo. The trio was featured in the US News & World Report December 2001 cover story, "The First Human Clone." The book presents the basic biological mechanisms of how cloning works and progresses to discuss current and potential applications in basic biology, agriculture, biotechnology, and medicine. Key Features \* First and most comprehensive book on animal cloning \* Chapters written by the world' expert in each area \* From the early experiments in amphibia to the latest one in mammals, everything is included in this book and told by the researcher that did it and how they did it \*

Basic biological mechanisms on how cloning works and all their current and potential applications \* Cloning applications on basic biology, agriculture, biotechnology and medicine are included \* Editors are the pioneers in the field

**Comparative Embryo Culture** - Jason R. Herrick 2019-06-29

This detailed volume contains embryo culture techniques that should inspire embryologists to consider comparative studies. The species included in this volume represent a broad range of taxa, whose embryos have vastly different culture requirements and developmental characteristics. Among the species described in this volume, significant differences exist in the rates of cell division, the timing of the maternal to embryonic transition, the relative lipid content of the cytoplasm, the sensitivity of the embryo to specific environmental ions, the preferred nutrients and associated metabolic pathways used by the embryo, the timing and

mechanisms of early lineage specification, the presence or absence of embryonic diapause, and the time from fertilization to implantation. Written for the highly successful Methods in Molecular Biology series, chapters include introduction to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible protocols, and tips on troubleshooting and avoiding known pitfalls.

Authoritative and practical, Comparative Embryo Culture: Methods and Protocols serves as an ideal aid for scientists seeking another species whose embryos have evolved a unique mechanism that could provide a valuable, comparative context for experimentation.

Scientific and Medical Aspects of Human Reproductive Cloning - National Research Council 2002-06-17

Human reproductive cloning is an assisted reproductive technology that would be carried out with the goal of creating a newborn genetically identical to another human being. It

is currently the subject of much debate around the world, involving a variety of ethical, religious, societal, scientific, and medical issues. Scientific and Medical Aspects of Human Reproductive Cloning considers the scientific and medical sides of this issue, plus ethical issues that pertain to human-subjects research. Based on experience with reproductive cloning in animals, the report concludes that human reproductive cloning would be dangerous for the woman, fetus, and newborn, and is likely to fail. The study panel did not address the issue of whether human reproductive cloning, even if it were found to be medically safe, would be "or would not be" acceptable to individuals or society.

**Arthur's Veterinary Reproduction and Obstetrics E-Book** - David E. Noakes  
2009-04-23

"Veterinary Reproduction and Obstetrics has been the standard reference textbook for veterinary students for many years, as well as

for students of animal science and related disciplines; in addition it has also been a useful reference source for the practicing veterinary surgeon. The new edition builds on the success of the previous edition covering normal reproduction and reproductive disorders and diseases in the common and less common domesticated species (llamas, alpacas, camels). The book has been completely revised with full colour throughout to include recent developments in reproductive biology and endocrinology, as well as the new knowledge on the causes and treatment of reproductive disease." "This is a reference text that has been refreshed well and warrants a place on practice bookshelves." - Veterinary Record, Feb 2011  
Classic text reference Covering all aspects of reproduction and obstetrics in all common and less common domestic species Only book covering full range of domestic animals Practical clinical approach throughout Thorough updating throughout to reflect changes in practice since

the last edition New authors and contributors to ensure contemporary and international approach (contributors from Finland, the Netherlands, USA, Denmark and New Zealand) Full colour throughout

Bovine Reproduction - Richard M. Hopper  
2014-08-18

Bovine Reproduction is a comprehensive, current reference providing information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient, the book also places information in the context of herd health where appropriate for a truly global view of bovine theriogenology. Printed in full color throughout, the book includes 83 chapters and more than 550 images, making it the most exhaustive reference available on this topic. Each section covers anatomy and physiology, breeding management, and reproductive surgery, as well as obstetrics and pregnancy wastage in the cow. Bovine Reproduction is a

welcome resource for bovine practitioners, theriogenologists, and animal scientists, as well as veterinary students and residents with an interest in the cow.

### **New Discoveries in Embryology** - Bin Wu

2015-10-21

Animal individual life begins as combination of sperm and oocyte, which results in the embryogenesis from ovum fertilization to fetal stage. Embryology has become one central discipline for many modern biotechnologies. Although this subject has been studied for more than a century, new discoveries appear continuously. This book contains some new discoveries and updates some theories and technologies in animal and human embryology. Major content include new findings in gamete biology, new theories and discoveries in embryo implantation by three-dimensional imaging technology and new concept and actual application of embryology. Thus, this book will greatly update knowledge in embryology field

and provide some basic theories and technologies for animal scientists and breeders as well as embryologists and anthropologists.

*Molecular genetics analysis of in vitro produced preimplantation stage Bovine embryos for developmental competence* - Solomon Mamo Genome 2004

*Biotechnology and Sustainable Development* - Ismail Serageldin 2003

Based on the first scientific conference convened at the Library of Alexandria, 'Biotechnology and Sustainable Development: Voices of the South and North', which was held in Alexandria, Egypt, in March 2002, this book contains overviews of agriculture, health, ethics and the environment. It discusses how dramatic improvements in food security, health, and lifestyle could accrue to the poor people of developing countries through the applications of new technologies.

### **Reproductive Technologies in Animals** -

Giorgio Presicce 2020-05-28

Reproductive Technologies in Animals provides the most updated and comprehensive knowledge on the various aspects and applications of reproductive technologies in production animals as well as companion, wild, exotic, and laboratory animals and birds. The text synthesizes historical information and recent discoveries, while dealing with economical and geographical issues related to the implementation of the same technologies. It also presents the effects of reproductive technology implementation on animal welfare and the possible threat of pathogen transmission. Reproductive Technologies in Animals is an important resource for academics, researchers, professionals in public and private animal business, and students at the undergraduate and graduate levels, as it gives a full and detailed first-hand analysis of all species subjected to the use of reproductive technologies. Provides research from a team of scientists and researchers whose expertise spans all aspects of

animal reproductive technologies Addresses the use of reproductive technologies in a wide range of animal species Offers a complete description and historical background for each species described Discusses successes and failure as well as future challenges in reproductive technologies

**Agricultural Biotechnology** - G. J. Persley  
2002

Following on from earlier titles in this series, this volume presents further material generated by the World Bank/ISNAR/Australian government biotechnology study. It covers the present status and future prospects for the application of biotechnology to solve agricultural and environmental problems in a number of developing countries. Particular focus is given on to developments that have taken place over the last decade.

**The Role of Exogenous Antioxidants in Enhancing Reproductive Function and Performance** - Zahid NASEER 2022-10-15

The Role of Exogenous Antioxidants in Enhancing Reproductive Function and Performance, Livre de Lyon  
*Reproductive Technologies in Farm Animals, 2nd Edition* - Ian Gordon 2017-06-23

Building on the successful structure of the first edition, the second edition of *Reproductive Technologies in Farm Animals* has been totally updated and revised to provide an up to date account of the key techniques employed in manipulating reproduction in farm animals, including beef and dairy cattle, pigs, sheep, goats, buffaloes, camelids, horses and poultry. A classic introductory text to the subject, the book is based on a comprehensive review of the current literature. This text remains key reading for students in animal science, agriculture, veterinary medicine and biology, and veterinary practitioners and farmers who wish to keep updated on developments in techniques that may be useful in their daily practice.

Reproductive Geographies - Marcia R. England

2018-12-07

The sites, spaces and subjects of reproduction are distinctly geographical. Reproductive geographies span different scales - body, home, local, national, global - and movements across space. This book expands our understanding of the socio-cultural and spatial aspects of fertility, pregnancy and birth. The chapters directly address global perspectives, the future of reproductive politics and state-focused approaches to the politicisation of fertility, pregnancy and birth. The book provides up-to-date explorations on the changing landscapes of reproduction, including the expansion of reproductive technologies, such as surrogacy and intrauterine insemination. Contributions in this book focus on phenomenologically-inspired accounts of women's lived experience of pregnancy and birth, the biopolitics of birth and citizenship, the material histories of reproductive tissues as "scientific objects" and engagements with public health and

development policy. This is an essential resource for upper-level undergraduates and graduates studying topics such as Sociology, Geographies of Gender, Women's Studies and Anthropology of Health and Medicine.

Training Manual for Embryo Transfer in Cattle - George E. Seidel 1991

**Handbook of Models for Human Aging** - P. Michael Conn 2011-04-28

The Handbook of Models for Human Aging is designed as the only comprehensive work available that covers the diversity of aging models currently available. For each animal model, it presents key aspects of biology, nutrition, factors affecting life span, methods of age determination, use in research, and disadvantages/advantages of use. Chapters on comparative models take a broad sweep of age-related diseases, from Alzheimer's to joint disease, cataracts, cancer, and obesity. In addition, there is an historical overview and

discussion of model availability, key methods, and ethical issues. Utilizes a multidisciplinary approach Shows tricks and approaches not available in primary publications First volume of its kind to combine both methods of study for human aging and animal models Over 200 illustrations

**Reproductive Technologies in Farm Animals** - Ian Gordon 2004

In the past half century great progress has been made in the reproductive management of farm animals, both mammals and birds. This book aims to review developments and indicate which reproductive technologies can be used commercially or in research. It begins by discussing artificial insemination and how this has recently been refined in semen sexing technology. Embryo transfer, in vitro embryo production technology and the control of oestrus and ovulation are then reviewed. Subsequent chapters consider the control of postpartum ovarian activity, seasonal breeding, multiple

births and litter size, pregnancy testing, parturition, and the onset of puberty. The author then describes more recent developments in

cloning and the production of transgenic animals, before a final chapter on suppressing reproductive activity.