



Fig. 1.2 Steps in Lu's IVP embryo production process.

18 calves to 13 foster-mothers in the autumn of 1987 and a considerable body of evidence supporting the view that the embryos produced were capable of establishing normal pregnancy rates in cattle. Initially, an *in vivo* culture period

in the sheep oviduct was employed to enable embryos to reach the blastocyst stage for transfer (Lu *et al.*, 1987), but late in 1987 the first calves were born from a totally IVP system (Lu *et al.*, 1988), the culture of embryos being by

Laboratory Production Of Cattle Embryos

Lingjun Ying



Laboratory Production Of Cattle Embryos:

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.

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.

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 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.

Bovine Reproduction Richard M. Hopper, 2021-07-21 Ein umfassendes Nachschlagewerk mit praktischen und gebrauchlichen Informationen zu allen Aspekten der Rindertheriogenologie. Die neu bearbeitete zweite Ausgabe von *Bovine Reproduction* bietet einen ausführlichen Überblick über

alle wichtigen Themen rund um die Rinderreproduktion Das Werk wurde von führenden Experten auf dem Gebiet verfasst und ist ein unverzichtbares Referenzwerk für alle Tierärzte die sich mit der Fruchtbarkeit von Rindern beschäftigen Bovine Reproduction ist in mehrere Abschnitte unterteilt über den Bullen die Kuh das neugeborene Kalb und Techniken der assistierten Reproduktion Die neue Ausgabe enthält Kapitel über neue Genmanipulationstechniken den Umgang mit problematischen Spendern Lehmung und viele weitere Themen Veraltete und verflüssigte Angaben aus der ersten Ausgabe wurden entfernt und durch Informationen über neue Krankheiten Technologien Verfahren Techniken und Behandlungsmöglichkeiten von Fertilitätsproblemen ersetzt Auf der neuen begleitenden Website stehen Bilder und Tabellen aus dem Buch im PowerPoint Format zur Verfügung Neben den über 675 vollfarbigen Abbildungen bietet das Werk insbesondere Eine ausführliche Diskussion der Anatomie und Physiologie des Bullen auch in Bezug auf die endokrine und exokrine Funktion der Rinderhoden und die Thermoregulation der Hoden Eine Betrachtung des Zucht und Gesundheitsmanagements bei Bullen mit einer Bewertung der Zuchttauglichkeit und einem Abschnitt über Ultraschalluntersuchungen des Fortpflanzungstrakts Eine Analyse der Anatomie Physiologie sowie des Zucht und Gesundheitsmanagements bei Kühen auch in Bezug auf fetale Programmierung das Mikrobiom des Fortpflanzungstrakts und mit einem Abschnitt über Geburtshilfe und Reproduktionschirurgie Einen Überblick über die Intensivpflege des neugeborenen Kalbes und die wirksame Untersuchung und Gabe von Kolostrum Eine Einführung in assistierte moderne Reproduktionstechnologien Das praktische umfassende Nachschlagewerk ist ein unverzichtbarer Ratgeber für Rinderzüchter Theriogenologen Tierzuchtwissenschaftler Studierende der Veterinärmedizin und angehende Ärzte mit einer Spezialisierung auf Rinder

Reproduction in Cattle Peter J. H. Ball, Andy R. Peters, 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

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

Reproductive Geographies Marcia

England, Maria Fannin, Helen Hazen, 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 *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 Comparative Reproductive Biology Heide Schatten, Gheorghe M.

Constantinescu, 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

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 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

Biotechnology and Sustainable Development Ismail Serageldin, G. J. Persley, 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

Current Research in Veterinary Medicine Ersoy BAYDAR, Uğur AYDOĞDU, 2024-10-16 **Agricultural Biotechnology** G. J. Persley, Reginald MacIntyre, 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

Biological Relatives Sarah Franklin, 2013-11-15 Sarah Franklin explores the history and future of in vitro fertilization IVF thirty five years and five million babies after its initial success as a form of technologically assisted human reproduction

The Biotechnology Revolution in Global Agriculture Peter W. B. Phillips, George G. Khachatourians, 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

Bovine in Vitro Embryo Production Using Avian White Yolk Nancy L. Jensen, 2003 Veterinary Embryology T. A. McGeady, P. J. Quinn, E. S. Fitzpatrick, M. T. Ryan, D. Kilroy, P. Lonergan, 2017-02-02 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 Arthur's Veterinary Reproduction and Obstetrics E-Book David E. Noakes, Timothy J. Parkinson, Gary C. W. England, 2009-04-23 The eBook version of this title gives you access to the complete book content electronically Evolve eBooks allows you to quickly search the entire book make notes add highlights and study more efficiently Buying other Evolve eBooks titles makes your learning experience even better all of the eBooks will work together on your electronic bookshelf so that you can search across your entire library of Veterinary Medicine eBooks Please note that this version is the eBook only and does not include the printed textbook Alternatively you can buy the Text and Evolve eBooks Package which gives you the printed book plus the eBook Please scroll down to our Related Titles section to find this title Arthur's 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 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 *Animal Biotechnology and Ethics* Alan J. Holland, Andrew Johnson, 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 *Intellectual Property Rights in Agricultural Biotechnology* Frederic H. Erbis, Karim M. Maredia, 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

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was the only daughter of archduke franz ferdinand of austria and his wife sophie duchess of hohenberg both of whom were assassinated in sarajevo on 28 june 1914

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romance between the poet novalis and his fiancée sophie newly introduced by candia mcwilliam the year is 1794 and fritz passionate idealistic and brilliant is seeking his fathers permission to announce his engagement to his hearts desire twelve year old sophie his astounded family and friends are amused and disturbed by his betrothal

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