



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

**Sarah Franklin**



## **Laboratory Production Of Cattle Embryos:**

**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 ma geblichen Informationen zu allen Aspekten der Rindertheriogenologie Die neu bearbeitete zweite Ausgabe von Bovine Reproduction bietet einen ausf hrlichen berblick ber alle wichtigen Themen rund um die Rinderreproduktion Das Werk wurde von f hrenden Experten auf dem Gebiet verfasst und ist ein unverzichtbares Referenzwerk f r alle Tier rzte die sich mit der Fruchtbarkeit von Rindern besch ftigen Bovine Reproduction ist in mehrere Abschnitte unterteilt ber den Bullen die Kuh das neugeborene Kalb und Techniken der assistierten Reproduktion Die neue Ausgabe enth lt Kapitel ber neue Genmanipulationstechniken den Umgang mit problematischen Spendern L hmung und viele weitere Themen Veraltete und berfl ssige Angaben aus der ersten Ausgabe wurden entfernt und durch Informationen ber neue Krankheiten Technologien Verfahren Techniken und Behandlungsm glichkeiten von Fertilit tsproblemen ersetzt Auf der neuen begleitenden Website stehen Bilder und Tabellen aus dem Buch im PowerPoint Format zur Verf gung Neben den ber 675 vollfarbigen Abbildungen bietet das Werk insbesondere Eine ausf hrliche 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 ber Ultraschalluntersuchungen des Fortpflanzungstrakts Eine Analyse der Anatomie Physiologie sowie des Zucht und Gesundheitsmanagements bei K hen auch in Bezug auf f tale

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**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.

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**New Discoveries in Embryology** Bin Wu, 2015-10-21 Animal individual life begins as a 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

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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 This book through its overview chapter and 12 country studies provides useful information on the evolving biotechnological research in Asia Africa and Latin America The emphasis is on the potential biotechnologies hold for agriculture in developing countries The reports vary in depth of coverage but all combine to show the urgent need that exists for public and private sector investment to ensure that all countries share in the benefits of modern biotechnologies while minimizing any unintended effects The book contains a subject index *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

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**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

**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



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