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# Laboratory Production of Cattle Embryos, 2nd Edition



I. Gordon



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# Laboratory Production Of Cattle Embryos

**Ian Gordon**



## **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.

*Studies Related to the Laboratory Production of Bovine Embryos* Peadar Monaghan, 1993

[Bovine in Vitro Embryo Production Using Avian White Yolk](#) Nancy L. Jensen, 2003

*Milk Composition, Production and Biotechnology* R. A. S. Welch, 1997 Major changes have recently taken place in the value attached to components of milk. Although approximately half the energy in milk is contained in fat fat is rapidly decreasing in value relative to protein. This has come about because of the increased availability of competitively priced plant derived edible oils and because of the perceived health problems associated with animal fat in the human diet. Such changes have major implications for the dairy sector particularly in developed countries. Against this background this book presents a timely review of developments in milk production and consumption of changes in milk component values and of the opportunities that biotechnology provides to alter the composition of and add value to milk on the farm. The subject coverage is very broad ranging from nutritional aspects of pastures and forages to rumen microbiology genetics and reproductive technologies milk biochemistry and environmental implications. It is based on a conference held in Wellington New Zealand in February 1996 and sponsored by the OECD and AgResearch. Contributors include leading research workers.

from North America Europe Japan Australia and New Zealand It provides an invaluable overview of the subject suitable as a reference book for advanced students researchers and advisers in dairy science as well as related disciplines such as grassland nutritional and food sciences

**Controlled Reproduction in Cattle and Buffaloes** Ian Gordon,1996 Introduction to controlled reproduction in cattle The cow's oestrous cycle and associated events Artificial control of oestrus and ovulation Pregnancy testing in cattle Control of calving Controlling the calving interval Embryo transfer and associated techniques in cattle Introduction of twin births in cattle Breeding cattle at younger ages Introduction to controlled reproduction in buffaloes Control of oestrous Pregnancy testing and parturition control in buffaloes Embryo transfer and associated techniques in buffaloes

**Analysis of Transcription Before the Maternal Zygotic Transition in Cattle Embryos Derived in Vitro** Ralph S. Marcucio,1996 Proceedings of the Ruakura Farmers' Conference ,1996 The Japanese Journal of Veterinary Research ,1997 **Fertility in the High Producing Dairy Cow** M. G. Diskin,2001 Individual Embryo Transport and Positioning Using MEMS Technology Ian K. Glasgow,1999 Technical Bulletin ,2000 *Studies on the Physiology of Gamete Maturation and Transportation,fertilization and Early Embryo Development in Farmed Red Deer (Cervus Elaphus Scoticus), and Application in Vitro Embryo Production* Debra Kay Berg,1997 **Mammalian Embryo Genomics** Organisation for Economic Co-operation and Development,2003 Proceedings of a conference which brought together a group of internationally recognised scientists in the genomics field The objective was to coordinate activities in the area of embryo genomics and create a number of collaborations dedicated to organising the huge amount of information being generated in this emerging field of research

*New Diagnostics in Crop Sciences* John H. Skerritt,R. Appels,1995 An overview of the development and application of diagnostic methods in crop sciences Varietal identification of crop plants Monoclonal antibody technology Antibody probes in cereal breeding for quality and disease resistance The interface between RFLP techniques DNA amplification and plant breeding Nucleic acid techniques in testing for seedborne diseases Fungal immunodiagnosics in plant agriculture Antibody approaches to plant viral diagnosis Nucleic acid based approaches to plant virus and virosis diagnostics Monitoring safety of plant foods immunodiagnosics for mycotoxins and other bioactive compounds Diagnostics for plant agrochemical a meeting of chemistry and immunoassay Measurement of polysaccharide degradins enzymes in plants using chromogenic and colorimetric substrates Isozyme variation and analysis in agriculturally important plants The use of carbon isotope discrimination analysis plant improvement

**The Molecular and Cellular Biology of the Potato** William R. Belknap,Michael E. Vayda,William D. Park,1994 Potato improvement by traditional breeding and opportunities for new technologies Ac Ds transposons mapped near disease resistance loci for targeted tagging in potato Studies to enhance starch biosynthesis by manipulation of ADP glucose pyrophosphorylase genes Control of carbohydrate metabolism in potato tubers Transgenic potatoes changed in carbohydrate partitioning and allocation Control of sugar balance in potato tubers Post harvest regulation of sucrose accumulation in transgenic potatoes role and properties of

potato tuber UDP glucose pyrophosphorylase Post harvest potato tuber glycerolipid Functionality of semi artificial transmembrane peptides encoded by gene constructs derived from the potato gene for granule bound starch synthase Potato alternative oxidase detection of mRNA by PCR and tissue specific differences in the protein levels Polyphenol oxidase in potato tubers Gene expression during early tuber development Use of ubiquitin promoters for transgene Regulation of translation in potato tubers in response to environmental stress Expression of the Brazil nut methionine rich protein in transgenic potato plants Strategies towards introducing resistance to bacterial pathogens in transgenic potatoes Field performance of transgenic potatoes Analysis of containment and food safety issues associated with the release of transgenic potatoes Culture

System-specific Effects on Development of in Vitro-produced Bovine Embryos Amy Elizabeth Fischer-Brown, 2004 **A**  
**World Dictionary of Livestock Breeds, Types and Varieties** Ian Lauder Mason, 1996 This dictionary covers cattle sheep pigs goats horses donkeys and buffalo It includes all names which have been applied to interbreeding groups of these species whether they are called breeds sub breeds types varieties strains or lines The region or country of origin of each group is given and this is followed by a very brief description of the breed in terms of products color and major morphological features There is a note on the history of the breed and the dates of formation of breed societies and herdbooks Synonyms for its name are listed as well as the present conservation status This new edition includes approximately 9 000 entries of which 5 000 are main entries and 4 000 are cross references This represents an increase on the third edition of 18% for main entries and 13% for cross references The highest proportion of new breed entries are in the horse and pig chapters Furthermore some 2 300 entries 30% have been amended These include 400 major changes such as new name extinction or the extension of a bare name to a complete entry They also include 1 900 entries with minor changes for example new breed society new synonyms additions to distribution or description changes in spelling or of conservation status China features strongly in all additions and amendments In addition to these changes references to USSR Yugoslavia and Czechoslovakia have been corrected in accordance with the current country names Overall the book continues to represent the standard reference work for all concerned with domestic livestock particularly those involved in animal breeding and genetics

**Agri-food Research in Ontario** ,1995 **The Philippine Journal of Science** ,2008

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