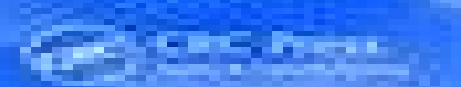


Mammalian Egg Transfer

Edited by
Cynthia Adams



Mammalian Egg Transfer

Alan Trounson, Carl Wood



Mammalian Egg Transfer:

Mammalian Egg Transfer Lewis Adams, 2018-01-18 Egg transfer was first performed in 1890 but for half a century it received scant attention. However, since 1950 the technique has become increasingly widely used in the laboratory for fundamental studies and more recently in practice both veterinary and medical to boost reproductive potential of genetically superior cattle and to overcome sterility due to impaired tubal function in women. As a result, a considerable body of literature has accumulated totaling well in excess of a thousand references. But till now there has not been a single comprehensive text devoted solely to this subject. The present work was designed to meet that need at a time when the field is fast expanding with new techniques and approaches constantly being evolved. One need only cite the tremendous rate of progress in human egg transfer in the last three years. The work embraces laboratory and farm animals and primates including man altogether representing a total of 16 species. *MAMMALIAN EGG TRANSFER* Cyril Edwin Adams, 1982-11-16 *Manipulation of Mammalian Development* Ralph B.L. Gwatkin, 2013-11-11 Developmental biology has been transformed recently by discoveries in the fields of molecular biology, cell biology, and immunology. New ways of manipulating mammalian development are uncovering control mechanisms and enabling us to apply them in solving practical problems in animal production and human health. This book outlines some of these new manipulations and how they have contributed to the present state of developmental biology. Chapter 1 describes gene transfer by microinjection of cloned recombinant DNA into zygotes. Although the factors that affect transformation frequencies and integration sites are still unknown, such techniques offer a number of exciting prospects. Research models for human disease could be artificially created and desirable characteristics in agricultural animals could be hanced. The theme of cell to cell transfer is continued in Chapters 2 and 3. Chapter 2 describes pronuclear transplantation by Sendai virus induced fusion of the karyoplast with the enucleated embryo. Using this procedure it has been demonstrated that both male and female genomes are essential for normal development although the reason for this is not yet understood. Chapter 3 describes studies on the fusion of whole oocytes. *Bibliography on Recovery and Transfer of Mammalian Eggs and Ovarian Transplantation* Cyril Edwin Adams, 1971 **Studies on Mammalian Embryo Cloning by Embryo Splitting and Nuclear Transplantation in a Rabbit Model** Xiangzhong Yang, 1990 *Cellular and Molecular Aspects of Implantation* Stanley R. Glasser, David W. Bullock, 2012-12-06 Long was I hugg d close long and long Immense have been the preparations for me Faithful and friendly the arms that have help d me Cycles ferried my cradle rowing and rowing like friendly boatmen For room to me stars kept aside in their own rings They sent influences to look after what was to hold me Before I was born out of my mother generations guided me My embryo has never been torpid nothing could overlay it Walt Whitman Song of Myself The womb is the seat of all mammalian life In pregnancy the uterus acquires this importance with the arrival of the fertilized egg which takes up residence for periods ranging from about 2 weeks in the opossum to about 2 years in the elephant The arrival of the

embryo signals a crucial time for the establishment of pregnancy For several days the blastocyst remains free in the uterine lumen where it depends on uterine secretions for its survival and differentiation During this time essential changes in the endometrium take place in preparation for attachment of the blastocyst and implantation Early embryonic loss is an economic problem of global proportions in animal husbandry where in pigs and cattle for example some 30% of all fertilizations fail to result in a pregnancy In humans this figure may be even higher and estimates of early spontaneous abortions range from 40 to 60% of all conceptions

New Techniques in Sheep Production I. Fayed M. Marai, J.B. Owen, 2013-10-22 New Techniques in Sheep Production is an eight part book that first reviews sheep production systems and scope for improvement Subsequent chapters focus on methods of increasing fecundity Parts III and IV describe reproduction methods and genetic improvement techniques Other chapters discuss breed development feeding systems management and health control and evaluation of techniques in sheep production This book will be of value to the pioneer farmers their advisers and supporters in the associated marketing and supply organizations as well as to students at agriculture and veterinary universities and colleges

Reproduction in Farm Animals E. S. E. Hafez, B. Hafez, 2013-05-13 When you're looking for a comprehensive and reliable text on large animal reproduction look no further the seventh edition of this classic text is geared for the undergraduate student in Agricultural Sciences and Veterinary Medicine In response to reader feedback Dr Hafez has streamlined and edited the entire text to remove all repetitious and nonessential material That means you'll learn more in fewer pages Plus the seventh edition is filled with features that help you grasp the concepts of reproduction in farm animals so you'll perform better on exams and in practice condensed and simplified tables so they're easier to consult an easy to scan glossary at the end of the book an expanded appendix which includes graphic illustrations of assisted reproduction technology Plus you'll find valuable NEW COVERAGE on all these topics Equine Reproduction expanded information reflecting today's knowledge Llamas NEW CHAPTER Micromanipulation of Gametes and In Vitro Fertilization NEW CHAPTER Reach for the text that's revised with the undergraduate in mind the seventh edition of Hafez's Reproduction in Farm Animals

In Vitro Fertilization and Embryo Transfer Markku Seppälä, Robert Geoffrey Edwards, 1985

The Mammalian Preimplantation Embryo Barry D. Bavister, 2012-12-06 With a few notable exceptions mammalian preimplantation embryos grown in vitro are likely to exhibit sub optimal or retarded development This may be manifested in different ways depending on the species and on the stages of embryonic development that are being examined For example bovine embryos often experience difficulty in cleaving under in vitro conditions and usually cease development at about the 8 cell stage Wright and Bondioli 1981 The block to development is stage dependent embryos cultured for 24 hr from the 1 cell stage are much more capable of developing into viable blastocysts after transfer to oviducts than embryos cultured for 24 hr from the 4 cell stage prior to transfer Eyestone et al 1985 Similar problems with in vitro embryo development are encountered in other species Pig embryos can be grown up to the 4 cell stage in vitro but usually no further

Davis and Day 1978 In the golden hamster in the rat and in many outbred strains of mice development of zygotes in vitro is blocked at the 2 cell stage Yanagimachi and Chang 1964 Whittingham 1975 Even with some inbred mouse strains embryo development is reduced if very early cleavage stages are used as the starting point for in vitro culture Spielmann et oZ 1980 A common finding is that embryos grown in vitro have reduced cell counts Harlow and Quinn 1982 Kane 1985 and their viability is reduced Bowman and McLaren 1970 Papaioannou and Ebert 1986 compared to equivalent developmental stages recovered from mated animals *In Vitro Fertilization and Embryo Transfer* Pier Giorgio Crosignani, Betty Louise Rubin, 1983 Fertilization of the Human Egg in Vitro H. M. Beier, Hans R. Lindner, 1983 The Organon Symposia have actually become a tradition keeping up with exciting developments in reproductive medicine The purpose of this symposium on Fertilization of the Human Egg in Vitro was to bring together the still limited number of clinical specialists in the field and to stimulate another group of basic research people to exchange their experiences and knowledge hopefully promoting close cooperation between the two groups It was a kind of scientific first that all research teams so far successful in achieving the birth of a healthy baby fertilized in vitro came together at a workshop conference without a large audience of spectators and reporters but with a small number of highly critical colleagues from the fields of basic reproductive physiology and comparative developmental biology This atmosphere allowed for the close exchange of results hypotheses diagnostic and therapeutic procedures criticism and respect and created very productive discussions all of which furthered the aim of the method To help more childless couples to have their own babies by the ultima ratio procedure of in vitro fertilization and embryo replacement The book that has emerged from this symposium will help to disseminate the great amount of information and experience gathered among the scientifically and clinically interested colleagues of many other hospitals and universities who could not be invited to the meeting At the same time it will prove that there is much more work to be done in the basic and clinical sciences of human embryology and reproductive biology Embryo Transfer with Particular Reference to Cattle Society for the Study of Animal Breeding, 1976 **Equine Embryo Transfer II** W. R. Allen, D. F. Antczak, Janette F. Wade, 1989 **In Vitro Fertilization and Embryo Transfer** Alan Trounson, Carl Wood, 1984 *Embryo Transfer in Farm Animals* Keith J. Betteridge, 1977 **In Vitro Fertilization and Embryo Transfer** Elsayed Saad Eldin Hafez, Kurt Semm, 1982 **Artificial Breeding of Non-domestic Animals** P. F. Watson, 1978 *The Soviet Journal of Developmental Biology*, 1987 In Vitro Fertilization and Embryo Transfer Don P. Wolf, 2012-12-06 The use of human in vitro fertilization in the management of infertility is the outgrowth of years of laboratory observations on in vitro sperm egg interaction The editors of this work have themselves contributed significantly to basic knowledge of the mammalian fertilization process The observations of Don Wolf on sperm penetration the block to polyspermy and most recently sperm hyperactivation in the monkey and human Gregory Kopf's elucidation of the mechanisms of sperm activation during penetration and the reciprocal dialogue between sperm and egg and Barry Bavister's definition of culture conditions and

requirements necessary for in vitro oocyte maturation fertilization and development in model mammalian systems including nonhuman primates have contributed greatly to our understanding of the mammalian fertilization process Wolf Kopf and Gerrity have enjoyed substantial interaction with clinicians in Departments of Obstetrics and Gynecology and have been directly involved with successful IVF programs Both Wolf and Kopf have served as research scientists in the Division of Reproductive Biology at the University of Pennsylvania which for more than 22 years has fostered co mingling of clinically oriented and basic science faculty It is through such interaction which clearly exists at many institutions including the University of Wisconsin that the process of technology transfer is best served Without an exquisitely coordinated laboratory there can be no consistent success in human in vitro fertilization Quality control is pivotal but close collaboration between the laboratory and the clinic is also essential as information is shared and correlated

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