



Preimplantation Embryo Development

Soo Jin Yang



Preimplantation Embryo Development:

Preimplantation Embryo Development Barry D. Bavister, 2012-12-06 This volume contains the Proceedings of the Serono Symposium on Pre implantation Embryo Development held in Newton Massachusetts in 1991 The idea for the symposium grew out of the 1989 Serono Symposium on Fertilization in Mammals at which preimplantation development was the predominant suggestion for a follow up topic This was indeed a timely subject in view of the recent resurgence of interest in this fundamental phase of embryogenesis and its relevance to basic research and applied fertility studies in humans food producing animals and endangered species The symposium brought together speakers from a broad range of disciplines in order to focus on key regulatory mechanisms in embryo development using a wide variety of animal models and on representative topics in human preimplantation embryogenesis The culmination of preimplantation development is a blastocyst containing the first differentiated embryonic tissues and capable of initiating and sustaining pregnancy The central objective of the symposium was to throw light on the regulation of cellular and molecular events underlying blastocyst formation It was particularly appropriate that the date of the symposium marked the 20th anniversary of the publication of the classic volume *Biology of the Blastocyst* the proceedings of an international workshop held in 1970 This book which summarized most of the information then available on this topic in mammals was edited by the pioneer in blastocyst research Dr Richard Blandau who was the guest speaker at the symposium

Preimplantation Embryo Development Barry D. Bavister, 1998-07-17 This volume contains the Proceedings of the Serono Symposium on Pre implantation Embryo Development held in Newton Massachusetts in 1991 The idea for the symposium grew out of the 1989 Serono Symposium on Fertilization in Mammals at which preimplantation development was the predominant suggestion for a follow up topic This was indeed a timely subject in view of the recent resurgence of interest in this fundamental phase of embryogenesis and its relevance to basic research and applied fertility studies in humans food producing animals and endangered species The symposium brought together speakers from a broad range of disciplines in order to focus on key regulatory mechanisms in embryo development using a wide variety of animal models and on representative topics in human preimplantation embryogenesis The culmination of preimplantation development is a blastocyst containing the first differentiated embryonic tissues and capable of initiating and sustaining pregnancy The central objective of the symposium was to throw light on the regulation of cellular and molecular events underlying blastocyst formation It was particularly appropriate that the date of the symposium marked the 20th anniversary of the publication of the classic volume *Biology of the Blastocyst* the proceedings of an international workshop held in 1970 This book which summarized most of the information then available on this topic in mammals was edited by the pioneer in blastocyst research Dr Richard Blandau who was the guest speaker at the symposium

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 al 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

Mammalian Preimplantation Development, 2016-07-26 Mammalian Preimplantation Development the latest volume in the Current Topics in Developmental Biology series covers mammalian preimplantation development and includes contributions from an international board of authors The book's chapters provide a comprehensive set of reviews covering such topics as cell proliferation cell differentiation and biological significance Covers the area of mammalian preimplantation development Includes contributions from an International board of authors Provides a comprehensive set of reviews covering such topics as cell proliferation cell differentiation and biological significance

Human Preimplantation Embryo Selection Jacques Cohen, Kay Elder, 2007-09-26 The most profound dilemma in assisted reproduction to date is the inability to recognize potentially viable embryos before their replacement into the reproductive tract Application of increasingly advanced new technology has allowed the field of embryo evaluation to evolve rapidly and dramatically over the past five years Human Preimplantation Emb

Development of Preimplantation Embryos and Their Environment Koji Yoshinaga, Takahide Mori, 1989

Nitric Oxide Regulation of Preimplantation Embryo Development Susanne Lynn Tranguch, 2002 ABSTRACT Nitric Oxide NO production plays an important role in regulating pre implantation embryo development NO is produced from L arginine by the enzyme nitric oxide synthase NOS which has three isoforms endothelial eNOS neuronal nNOS and inducible iNOS Studies have shown that NO mediates its effects through a variety of pathways It has been previously shown that inhibition of NO production by N superscript G nitro L arginine LNA inhibits the development of 2 cell embryos to the 4 cell stage However excess NO also halts embryo development possibly through the production of free radicals We hypothesize that multiple NOS isoforms are expressed in order to ensure normal embryo development We performed RT PCR to demonstrate the presence of mRNA for all three NOS isoforms in 2 cell 4 cell morula and blastocyst stage embryos We next hypothesize that NO acts through the

cGMP pathway in preimplantation embryo development To test this embryos from CD 1 day 1 pregnant female mice were cultured in various concentrations of Whitten s positive control NO donor S nitroso N acetylpenicillamine SNP L NA or 8 Br cGMP Embryos were assessed every 24 hours to determine their stage of development 2 cell 4 cell morula or blastocyst We found that a critical concentration of NO and cGMP is required for normal embryo development and deviations from this concentration lead to developmental arrest and or apoptosis of the embryo We also found that NO is acting at least in part through cGMP in preimplantation embryo development From this data we have directly demonstrated the importance of NO and its role in preimplantation embryo development

The Role of Energy Management During Preimplantation Hamster Embryo Development Deborah K. Barnett,1995

The Influence of Zinc During Early Embryonic Development Jeffrey Maurice Peters,1992

Characterization of Genes Required for Preimplantation Embryo Development Marc P. Maserati,2013

Preimplantation embryo development in the mouse is a time of rapid cellular morphological and molecular changes leading to embryo implantation for the generation of offspring The Mager lab studies these events occurring between fertilization and implantation in order to better understand the initial events which set the stage for all future aspects of development The result of this research impacts many scientific disciplines including in vitro based means of embryo culture establishment of epigenetic marks differentiation and cellular reprogramming and can be used in translational research for the improvement of in vitro culture techniques and develop novel therapies such as cell replacement in the case of macular degeneration Bin L 2009 Through the use of in vitro embryo culture RNA interference RNAi approaches and daily observations gene function required in preimplantation embryo development can be determined In the initial published body of work evaluating gene knockdown using our RNAi approach Maserati M 2011 WDR74 was characterized in preimplantation embryo development We now understand that WDR74 is implicated in RNA production and or stability as gene knockdown at the 1 cell stage significantly depletes mRNA within the embryo by the morula stage Furthermore double knockdown of Trp53 and Wdr74 results in a partial rescue of blastocyst formation suggesting p53 mediated apoptosis in the failure to make a blastocyst phenotype The initial characterization of 4 RNA processing genes SF3b14 SF3b1 SAP155 Rpl711 and Rrp7a required for blastocyst formation was later evaluated The results of this work has been submitted for publication and will be published soon in the journal Zygote SF3b14 and SF3b1 identified as being part of the spliceosome complex disproportionately contributes to gene transcription of those genes containing more than 1 exon verifying a role in RNA splicing Rpl711 identified by GO terms as a possible ribosomal gene was found to be present in the cytoplasm and surprisingly in the nucleus It is surmised this gene influences polymerase 2 activity as Rpl711 gene knockdown embryos demonstrate reduced active polymerase 2 activity at the morula stage Rrp7a was identified as being critical in blastocyst formation and is present in the cytoplasm while excluded from the nucleus Based on location and GO terms this suggests a role in translation Taken together these 4 genes act in 3 different ways impacting RNA production splicing or translation promoting blastocyst formation in the

mouse The final gene evaluated in this work was Bcl 6 corepressor Bcor As opposed to our previous work with RNA processing factors this gene knockdown does not result in a failure to make a blastocyst Bcor knockdown increases the rate of physiologically normal blastocysts in both murine and bovine models Although further characterization must be done temporary Bcor gene knockdown might be a useful improvement of in vitro embryo culture systems including murine bovine equine and possibly even human This manuscript is divided into 4 chapters the first of which is a review of preimplantation embryo development This covers selected and relevant events between fertilization and just before implantation of the embryo into the uterus I mainly focus on events after fertilization and the necessary changes required for zygotic genome transcription and lineage specification The second chapter characterizes WDR74 a gene we identified as critical in the formation of a blastocyst in a reverse genetic screen As state before we assess WDR74 function with the developing embryo and conclude the protein plays a role in RNA production and or stability of RNA transcripts We also test to rescue blastocyst formation in WDR74 knockdown embryos in an attempt to further evaluate WDR74 function We continue the characterization of genes whose temporary reduction causes the failure of blastocyst formation in the third chapter Here we report on four additional RNA processing genes in a body of work which has been published in the journal Zygote Since these genes contained similar GO terms we assumed they may all function in a similar way so they were assayed together as a group As function of these genes were unknown we determined protein localization within the cell function in RNA splicing alternative splicing and to determine if the failure to make a blastocyst is due to lineage specification In the final chapter BCOR gene expression is characterized in preimplantation embryo development as in the former 2 chapters However the result of this gene knockdown does not lead to the failure to make a blastocyst rather this improves the number of blastocysts formed during the correct physiological time the same time that blastocysts form invivo Undoubtedly this could lead to possible commercial applications which are reviewed along with the preliminary data we have been able to collect thus far Specifically the continuation of the BCOR gene knockdown research in preimplantation embryo development is pitched in the form of academic and international business collaboration with InvitroBrasil for the production of cloned bovine equine and ICSI in equine

Early Embryo Development and Paracrine Relationships Susan Heyner, Lynn M. Wiley, 1990 Based on the proceedings of a UCLA colloquium held in Taos

Effects of Zinc on Early Mammalian Embryo Development Lynn A. Hanna, 1999

Genetic Characterization of the Preimplantation Embryo Development (PED) Gene Using the Congenic B6.K1 and B6.K2 Strains of Mice Michael J. Byrne (Ph. D.), 2008 In viviparous mammals preimplantation embryo development occurs post fertilization and prior to implantation in the uterus During this period of time the egg develops into a zygote which activates its own genome and goes through a series of cell divisions called cleavage divisions to ultimately become a blastocyst ready to implant in the uterus and develop into a new organism The preimplantation embryo development Ped gene regulates the rate of preimplantation embryonic cleavage division and subsequent embryo survival in

mice In the mouse the Ped gene product is Qa 2 protein a non classical major histocompatibility complex MHC class Ib molecule encoded by four tandem genes Q6 Q7 Q8 Q9 Most inbred strains of mice have all four genes on each allelic chromosome making a total of eight Qa 2 encoding genes but there are a few strains that are missing all eight genes defining a null allele Mouse embryos possessing the Qa 2 encoding genes express Qa 2 protein on their surface and develop at a faster rate and have a greater chance of survival compared to mouse embryos expressing the null allele The B6 K1 and B6 K2 strains of mice are congenic strains that have identical genetic loci with the exception of the genes that encode Qa 2 The B6 K1 mice have a deletion of the four Qa 2 encoding genes whereas the B6 K2 mice do possess all four Qa 2 encoding genes Using these mice as either controls or subjects I have done research towards three specific aims 1 Test the hypothesis that the number of Qa 2 encoding genes varies in the wild mouse population 2 Test the hypothesis that male preimplantation embryos develop faster than female preimplantation embryos from the B6 K1 and B6 K2 strains of mice 3 Test the hypothesis that the Ped gene is influenced by the expression of two microRNAs miR 125a and miR 125b The results from the first specific aim showed that there was great variability in the number of Qa 2 encoding genes in 32 wild mice tested The wild mouse with the highest number of Qa 2 encoding genes had 85 such genes whereas one wild mouse was discovered without any Qa 2 encoding genes The results from the second specific aim showed that there was no statistically significant difference in the ratio of male to female preimplantation embryos in either strain Therefore the Ped gene is entirely responsible for mediating the faster development of B6 K2 embryos compared to B6 K1 embryos Finally the results from the third specific aim showed that the absence of one of the Qa 2 encoding genes Q9 resulted in a 10 fold increase in expression of the developmental timing miRNA miR 125a but not of its close family member miR 125b This finding is significant because miR 125a and its homolog lin 4 have been found to play important roles in development in many species Our results suggest that similar to lower organisms miRNAs play an important role in developmental timing in mice Taken together the findings presented in this dissertation have answered important basic research questions regarding Ped gene control of the rate of preimplantation embryo development and have led to the discovery of an entirely new way of thinking about gene regulation during mouse embryo development namely the involvement of miRNAs

The Regulation of Early Bovine Embryo Development in Vitro by Energy Substrates and Metabolism Tanu Pinyopummintr,1995 *Co-Culture Systems* Kelley Lynn Zacharias,1994 *Time, Space, and Pattern in Embryonic Development* William R. Jeffery,Rudolf A. Raff,1983 *The Role of Copper in Mouse Embryonic Development* Soo Jin Yang,2007 **Developmental Biology and Pathology** A. Gropp,Kurt Benirschke,1976-11-01 The early development of the mammalian embryo belongs to a period which for the student provides the particularly deep fascination connected with the processes of germination of the first tender buds of life Moreover developmental biology encompasses a very large part of biology if broadly dermed almost all of it The same is true for the field of pathology if the manifold possibilities of disorders of the orderly arranged pathways of developmental

processes are considered Normal development in its earliest steps and it would be difficult to see it otherwise means the functioning of very intricate systems of complex inter dependent cycles controlled by structural genetic physiological and biochemical determinants However disturbances interfering with them in their very different ways can lead to fetal death disorders of growth and differentiation malformation and disease sometimes as late as in the next generation or later This is indeed the concern of the pathologist to whom and to whose interest in developmental pathology this book is dedicated The outlines of the present volume were conceived at a symposium on Control of early embryogenesis and factors responsible for failure of embryonic development held May 14 1974 in Traventinde and sponsored by the Deutsche Forschungsgemeinschaft Almost fifty active participants attended this conference At the time and in keeping with the purpose of the conference publication of the proceedings was not envisaged **Advances in Developmental Biology**, 1994 *Gamete Research*, 1987

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