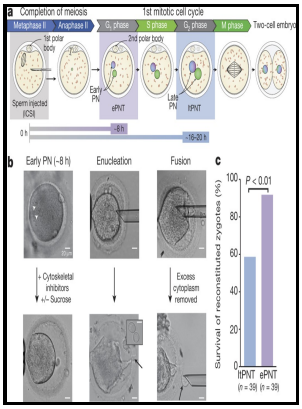
Use of three pronuclei embryos as a model to analyze the uptake of paternal mitochondrial DNA

University of Birmingham - Advances in methods for reducing mitochondrial DNA disease by replacing or manipulating the mitochondrial genome



Description: -
-use of three pronuclei embryos as a model to analyze the uptake of paternal mitochondrial DNA
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Notes: Thesis (M.Phil.) - University of Birmingham, Department of Obstetrics and Gynaecology, School of Medicine, Faculty of Medicine, 2000.
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Tags: #Mitochondrial #DNA #in #the #Oocyte #and #the #Developing #Embryo

Transmission of mitochondrial DNA following assisted reproduction and nuclear transfer

Mol Hum Reprod 2004; 10: 23-32. This is partly because many post-mortem results have not been published, and the cause of many deaths following NT is not documented. Paternally expressed imprinted genes tend to enhance placental growth.

Advances in methods for reducing mitochondrial DNA disease by replacing or manipulating the mitochondrial genome

Regulation of mitochondrial genome inheritance by autophagy and ubiquitin-proteasome system: Implications for health, fitness, and fertility. The choice of technique used will depend on multiple factors including the expertise of the embryologist conducting the procedure and the legal stance of the country in which the procedure is to occur.

Transmission of mitochondrial DNA following assisted reproduction and nuclear transfer

The group selectively cut deleted DNA by targeting mitoTALENs to the breakpoint sequences, which would only be in close enough proximity to dimerize when bound to mutant mtDNA.

Advances in methods for reducing mitochondrial DNA disease by replacing or manipulating the mitochondrial genome

International Federation of Red Cross and Red Crescent Societies 2011 World disatsers report 2011 - Focus on hunger and malnutrition. Granulosa cell and oocyte mitochondrial abnormalities in a mouse model of fragile X primary ovarian insufficiency.

Transmission of mitochondrial DNA following assisted reproduction and nuclear transfer

Identified for the first time in this study, reduced placental and fetal growth associated with paternal obesity is in contrast to the effect of maternal obesity on pregnancy, which correlates significantly with the incidence of large for gestational age births ,. Furthermore, differential diagnosis to

confirm or exclude mtDNA disease may become easier with increasingly accurate and affordable sequencing technologies. Genome Structure and Function The mitochondrial genome contains 37 genes, 13 of which encode for proteins that are core components of the respiratory chain and OXPHOS system, with the remaining 24 assisting in the translation of OXPHOS proteins.

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