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Basic Study

Application of cattle placental stem cells for treating ovarian follicular cyst

Peng SY *et al.* Treatment of stem cell on OFC

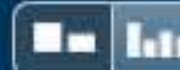
Shao-Yu Peng, Tsung-Hsin Wu, Tzu-Yi Lin, Ling-Yien Hii, Kok-Seong Chan, Tzu-Yen Fu, Shen-Chang Chang, Perng-Chih Shen, Kang-You Liu, Steven W. Shaw

Abstract

BACKGROUND

High humidity and temperature in Taiwan have significant effect on the reproductivity of Holstein cattle, that results in occurrence of bovine ovarian follicular cysts (OFC). In

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Follicular Cystic Ovary Disease in Cattle - Reproductive ...

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Ovulation synchronization protocols combine GnRH and PGF 2 α to control follicular dynamics, luteolysis, and ovulation. They allow for fixed timed artificial insemination (TAI) of cattle without the need for estrus detection and have been successfully used to treat cows with cystic ovaries.

Intraovarian injection of mesenchymal stem cells improves ...

<https://www.nature.com/articles/s41598-020-64810-x>

May 15, 2020 · Ovarian follicular growth suppression by long-term treatment with a GnRH agonist and impact on small follicle number, oocyte yield, and in vitro embryo production in Zebu beef cows.

Theriogenology ...

Primordial follicle activation as new treatment for ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6572666>

Jun 01, 2019 · Pioneering studies have evaluated the use of gamete formation from stem cells, isolation of ovarian stem cells, activation of dormant follicles using in vitro activation (IVA), ovarian fragmentation for follicular activation (OFFA), stem cell ovarian transplantation, and injection of platelet-rich plasma. Among these methods, IVA has been successfully applied in humans with ...

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Publish Year: 2020

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Applications of mesenchymal stem cell technology in bovine ...

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-019-1145-9> ▾

Jan 24, 2019 · Mesenchymal **stem cells** (MSCs) have received a great deal of attention over the past 20 years mainly because of the results that showed regeneration potential and plasticity that were much stronger than expected in prior decades. Recent findings in this field have contributed to progress in the establishment of **cell** differentiation methods, which have made **stem cell** therapy more clinically ...

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Ovarian stem cell nest, one of the indispensable components of **ovarian stem cell** niche, which is mainly composed of granulosa **cells**, vascular endothelial **cells**, immunologically relevant **cells** and ...

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Jan 24, 2019 · The number of studies investigating the pluripotent ability of MSC has grown recently, and many researchers have reported cells derived from **bone marrow** [15, 16], **adipose tissue** [17], **ovarian tissue** [18, 19], **placenta** [20], and **uterus** [21] that express pluripotent markers.

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Author: Antonin Bukovsky

[Effects of hPMSCs on granulosa cell apoptosis and AMH ...](#)

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Jan 31, 2018 · hPMSC transplantation can significantly improve the **serum levels of high gonadotropin and low estrogen of POF mice**, promote follicular development, inhibit excessive follicular atresia and granulosa cell apoptosis, and improve the ovarian reserve capacity. The mechanism may be achieved by increasing the expression of AMH and FSHR in ovaries.

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Author: Hongqin Zhang, Qianqian Luo, Xueyan L...

Publish Year: 2018

[Using Mesenchymal Stem Cells to Treat Female Infertility ...](#)

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