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### Human endometrial mesenchymal stem cells restore ovarian ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4490699>

May 12, 2015 · Human endometrial mesenchymal stem cells restore ovarian function through improving the renewal of germline stem cells in a mouse model of premature ovarian failure Dongmei Lai , Fangyuan Wang , Xiaofen Yao , Qiuwan Zhang , Xiaoxing Wu , and Charlie Xiang

Cited by: 86 Author: Dongmei Lai, Fangyuan Wang, Xiaofen Yao,...

Publish Year: 2015

### Human chorionic plate-derived mesenchymal stem cells ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5883538>

Apr 03, 2018 · Human chorionic plate-derived mesenchymal stem cells transplantation restores ovarian function in a chemotherapy-induced mouse model of premature ovarian failure Jun Li , # 1, 2 Qingtong Yu , # 1 Haisen Huang , # 2 Wenwen Deng , 1 Xia Cao , 1 Michael Adu-Frimpong , 1 ...

Cited by: 8 Author: Jun Li, Qingtong Yu, Haisen Huang, Wenwe...

Publish Year: 2018

### Human amniotic mesenchymal stem cells improve the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6775662>

Lai D, Wang F, Yao X, Zhang Q, Wu X, Xiang C. Human endometrial mesenchymal stem cells restore ovarian function through improving the renewal of germline stem cells in a mouse model of premature ovarian failure. J Transl Med. 2015; 13:155. doi: 10.1186/s12967-015-0516-y. ...

Cited by: 3 Author: Rongxia Liu, Xiaoyu Zhang, Zhenhai Fan, Yu...

Publish Year: 2019

### (PDF) Mesenchymal stem cells for restoration of ovarian ...

<https://www.researchgate.net/publication/331530932...>

With the progress of regenerative medicine, mesenchymal stem cells (MSCs) have received attention as a way to restore ovarian function. It has been reported that MSCs derived from bone marrow ...

### Human chorionic plate-derived mesenchymal stem cells ...

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-018-0819-z> ▾

Apr 03, 2018 · Previous studies have reported that transplantation of mesenchymal stem cells (MSCs) from many human tissues could ameliorate ovarian dysfunction. However, no study has revealed the therapeutic efficiency of MSCs derived from the chorionic plate (CP-MSCs) for premature ovarian failure (POF). We investigated the restorative effects of CP-MSCs on cyclophosphamide (CTX)-induced POF. The POF mouse ...

Cited by: 8 Author: Jun Li, Qingtong Yu, Haisen Huang, Wenwe...

Publish Year: 2018

### Ability of human umbilical cord mesenchymal stem cells to ...

<https://www.wjgnet.com/1948-0210/full/v12/i4/277.htm> ▾

Ability of human umbilical cord mesenchymal stem cells to repair chemotherapy-induced premature ovarian failure. Ability of human umbilical cord mesenchymal stem cells to repair chemotherapy-induced premature ovarian failure.

### Restoring Ovarian Function With Human Placenta-Derived ...

<https://journals.sagepub.com/doi/10.1177/1933719117732156>

Regulatory T (Treg) cells play a key role in the regulation of autoimmunity and transplantation. Human placenta-derived mesenchymal stem cell (hPMSC) transplantation has a potential to restore ovarian dysfunction associated with premature ovarian failure (POF), while the exact function of the Treg cells in the transplantation still needs to be further investigated.

Cited by: 13 Author: Na Yin, Wei Zhao, Qianqian Luo, Wendan Y...

Publish Year: 2018

### [PDF] Exosomes derived from human adipose mesenchymal stem ...

<https://stemcellres.biomedcentral.com/track/pdf/10.1186/s13287-018-0953-7>

POI. We designed this experimental study to investigate whether human adipose stem cell-derived exosomes (hADSC-Exos) retain the ability to restore ovarian function and how hADSC-Exos work in this process. Methods: A POI mouse model was established and human ovarian granule cells (hGCs) collected from individuals

Cited by: 10 Author: Boxian Huang, Jiafeng Lu, Chenyue Ding, Q...

Publish Year: 2018

### Skin-Derived Mesenchymal Stem Cells Help Restore Function ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4039525>

May 30, 2014 · Here, female skin-derived mesenchymal stem cells (F-SMSCs) and male skin-derived mesenchymal stem cells (M-SMSCs) from red fluorescent protein (RFP) transgenic adult mice were used to determine the impact of cell transplantation on female reproductive function using a preclinical mouse model of chemotherapy-induced premature ovarian failure.

Cited by: 30 Author: Dongmei Lai, Fangyuan Wang, Zhangli Don...

Publish Year: 2014





**Name of Journal:** *World Journal of Stem Cells*

**Manuscript NO:** 54742

**Manuscript Type:** ORIGINAL ARTICLE

### Basic Study

Human embryonic stem cell-derived mesenchymal stem cells improved premature ovarian failure

Bahrehbar K *et al.* Stem cells for premature ovarian failure

Khadijeh Bahrehbar, Mojtaba Rezazadeh Valojerdi, Fereshteh Esfandiari, Rouhollah Fathi, Seyedeh-Nafiseh Hassani, Hossein Baharvand

### Abstract

#### BACKGROUND

Premature ovarian failure (POF) affects many adult women less than 40 years of age and leads to infertility. According to previous reports, various tissue-specific stem cells can restore ovarian function and folliculogenesis in mice with

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## Human amniotic mesenchymal stem cells improve the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6775662>

Recent studies have shown that **bone marrow mesenchymal stem cells** (MSCs) [10–14], **amniotic fluid stem cells** [15–18], **adipose-derived stem cells** [19, 20], **human umbilical cord MSCs** [21, 22], and **menstrual blood stem cells** [23–25] can **restore ovarian** function and fertility in mice models of POF. However, many of the suitable **cell** types currently identified for clinical application involve ...

**Cited by:** 3 **Author:** Rongxia Liu, Xiaoyu Zhang, Zhenhai Fan,...  
**Publish Year:** 2019

## Human amniotic mesenchymal stem cells improve the ...

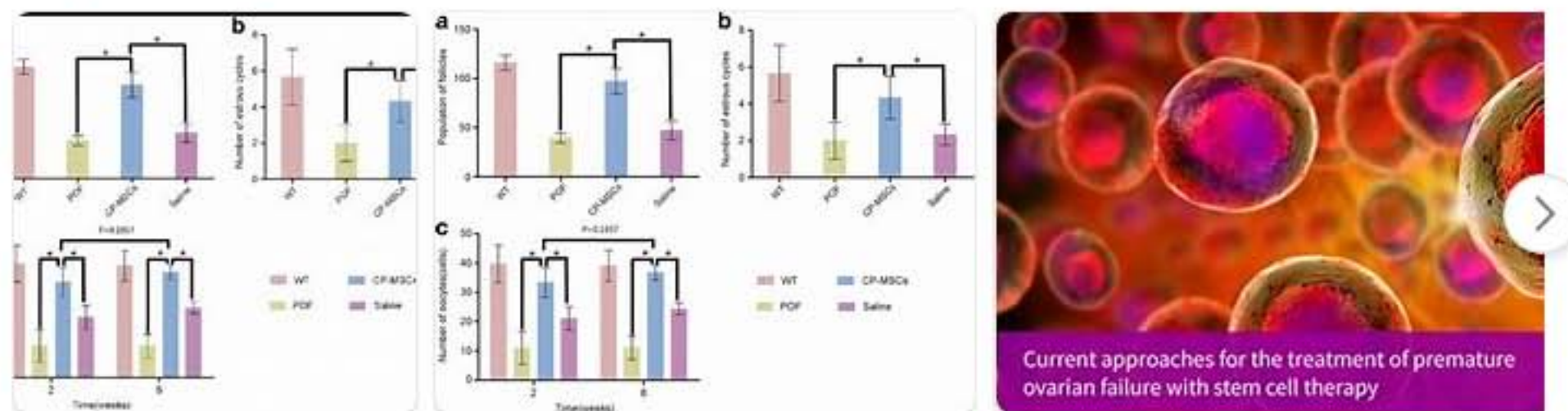
<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-019-1315-9> ▾

Oct 02, 2019 · Many adult women younger than 40 years old have **premature ovarian failure** (POF) and infertility. Previous studies confirmed that different **tissue-derived stem cells** could **restore ovarian** function and folliculogenesis in chemotherapy-induced POF mice.

**Cited by:** 3 **Author:** Rongxia Liu, Xiaoyu Zhang, Zhenhai Fan,...  
**Publish Year:** 2019

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<bing.com/images>



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## Human amnion-derived mesenchymal stem cell (hAD-MSC ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6347748>

Jan 25, 2019 · **Human** amnion-derived **mesenchymal stem cells** (hAD-MSCs) have been demonstrated to not only have the features of MSCs [15, 16] but also have some phenotypic characteristics that are the same as **embryonic stem cells** [16, 17]. Moreover, the procedure used to obtain hAD-MSCs is safe, noninvasive, and ethical [18, 19].

**Cited by:** 6**Author:** Li Ling, Xiushan Feng, Tianqin Wei, Yan ...**Publish Year:** 2019

## Recovery of ovarian function by human embryonic stem cell ...

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-020-01769-6> ▾

Jun 26, 2020 · Human embryonic stem **cell-derived MSCs (hESC-MSCs)** can differentiate into three **germ layers and possess immunosuppressive effects in vitro. Anticancer treatment is a well-known risk factor for premature ovarian failure (POF).** In this study, we investigated the effect of hESC-MSC on recovery of ovarian function in cisplatin-induced POF in mice.

**Author:** Sook Young Yoon, Jung Ah Yoon, Mir...**Publish Year:** 2020

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