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Stem cell-based therapies for fertility preservation in mal



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<https://academic.oup.com/jcem/article/97/12/4341/2536357> ▾

Dec 01, 2012 · **Present and Future Prospects of Male Fertility Preservation for Children and Adolescents ...** The most reliable and routinely used option for **fertility preservation** in adult **male** patients is cryopreservation of sperm. ... **Future Treatment Strategies for Fertility Preservation** Nongonadotoxic cancer **therapy**.

Cited by: 51

Author: Kirsi Jahnukainen, Kirsi Jahnukainen, Ja...

Publish Year: 2012

Potential use of stem cells for fertility preservation ...

<https://onlinelibrary.wiley.com/doi/10.1111/andr.12713>

Pluripotent Stem Cells for Male Fertility Preservation. Embryonic stem cells (ESC) and induced pluripotent stem cells (iPSC) are the most studied sources of **stem cells** in many areas of regenerative medicine and developmental biology research.

Author: A. Gauthier-Fisher, A. Kauffman, C. L....

Publish Year: 2019

Spermatogonial stem cell transplantation and male ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5922182>

To summarise the **current** state of research into spermatogonial **stem cell** (SSC) **therapies** with a focus on **future** directions, as SSCs show promise as a source for preserving or initiating **fertility** in otherwise infertile **men**. We performed a search for publications ...

Cited by: 5

Author: Connor M. Forbes, Ryan Flannigan, Pete...

Publish Year: 2018



1 / 42

11
Name of Journal: *World Journal of Stem Cells***Manuscript NO:** 54968**Manuscript Type:** REVIEW**Stem cell-based therapies for fertility preservation in males: Current status and future prospects**

Han-Chao Liu, Yun Xie, Chun-Hua Deng, Gui-Hua Liu

Abstract

With the decline in male fertility in recent years, strategies for male fertility preservation have received increasing attention. In this study, by reviewing current treatments and recent publications, we describe research progress in and the future directions of stem cell-based therapies for male fertility preservation, focusing on the use of spermatogonial stem cells (SSCs), SSC niches, SSC-based testicular organoids, other stem cell types such as mesenchymal stem cells, and stem cell-derived extracellular vesicles. In conclusion, a more comprehensive understanding of the germ cell microenvironment, stem cell-

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[Role of stem cells in fertility preservation: current insights](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6689135)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6689135>

Introduction. Some years ago, **fertility preservation** (FP) emerged as a **treatment** aiming to preserve **future** reproductive capacity of individuals facing **therapies** that could potentially affect their gonads, the majority being patients diagnosed with cancer.¹ Indeed, chemo- and radiotherapy are associated with gonadotoxicity in both **males** and females.² Other health conditions can motivate FP ...

Cited by: 4

Author: Maxime Vermeulen, Maria-Grazia Giudic...

Publish Year: 2019

[Stem Cells as New Agents for the Treatment of Infertility ...](https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4009115)

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