

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 54474

Manuscript Type: REVIEW

Insights of stem cell treatment for intervertebral disc degeneration: Aiming at endogenous repair

Liu Y, *et al.* Endogenous repair of intervertebral disc degeneration

¹ Yang Liu, Yan Li, Li-Ping Nan, Feng Wang, Shi-Feng Zhou, Xin-Min Feng, Hao Liu, Liang Zhang

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May 08, 2019 · Supplemental Material, **G5J_Supplemental_Material for Cell Therapy for Treatment of Intervertebral Disc Degeneration: A Systematic Review** by **Dino Samartzis**, Niccole M. Germscheid, Michael G. Fehlings, Charles G. Fisher, Marinus de Kleuver, F. **Cumhur Öner**, S. Tim Yoon, Luiz R. Vialle, Hans-Joerg Meisel, Neha Agarwal, Patrick C. Hsieh, Andrea Skelly, Jong-Beom Park, Darrel ...

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Author: Hans-Joerg Meisel, Neha Agarwal, Patric...

Publish Year: 2019

Stem cell therapy for degenerative intervertebral disk ...

<https://www.mayoclinic.org/medical-professionals/physical-medicine-rehabilitation/news/...> ▼

The purpose of the study is to identify genes that could serve as a target for early intervention and **treatment** for **degenerative** disk disease. **Intervertebral** disks from the cervical and lumbar spine have been retrieved from surgery and evaluated. Translational studies addressing technology for **stem cell** delivery are also important.

Stem Cell Therapy for Degenerative Disc Disease

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3347696>

Apr 24, 2012 · Review of **stem cell intervertebral disc therapy** reported in the literature, including the animal model, **cell** type, and **treatment** outcome. ... and regenerate the matrix. In 2003, Sakai et al. conducted the first study exploring the use of MSCs to **repair** IVD **degeneration** in vivo using a rabbit model. Partial aspiration of the NP was used to ...

Cited by: 24

Author: Doniel Drazin, Jack Rosner, Pablo Avalos...

Publish Year: 2012



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Author: Rita Lok-Hay Yim, Juliana Tsz-Yan Lee, C...

Publish Year: 2014

位置: 8600 Rockville Pike, Bethesda, MD

2014-11-1 · Intervertebral disc degeneration is associated with low-back pain. Mesenchymal stem cells (MSCs) have been used to "regenerate" the disc. The aim of this study was to perform a systematic review of comparative controlled studies that have assessed the safety and efficacy of using MSCs for disc regeneration.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4201280>

Mesenchymal stem cell therapies for intervertebral ... [翻译此页](#)

Author: Louise Vickers, Abbey A. Thorpe, Jose...

Publish Year: 2019

位置: 8600 Rockville Pike, Bethesda, MD

2019-6-26 · Mesenchymal stem cell therapies for intervertebral disc degeneration: Consideration of the degenerate niche ... thus could provide a therapeutic option for the repair of the NP during IVD degeneration. Keywords: degeneration, hydrogel, intervertebral ... Importantly, this could have key implications for treatment during late stage degeneration ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6686825>

Cell Therapy for Treatment of Intervertebral Disc ... [翻译此页](#)

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Author: Hans-Joerg Meisel, Neha Agarwal, Patrick...

Publish Year: 2019

位置: 8600 Rockville Pike, Bethesda, MD

2019-5-8 · Systematic review.To review, critically appraise, and synthesize evidence on use of cell therapy for intervertebral disc repair.A systematic search of PubMed/MEDLINE was conducted for literature published through October 31, 2018 and EMBASE and databases ...



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May 08, 2019 · **Supplemental Material**, GSJ_Supplemental_Material for **Cell Therapy for Treatment of Intervertebral Disc Degeneration**: A Systematic Review by **Dino Samartzis**, Niccole M. Germscheid, Michael G. Fehlings, Charles G. Fisher, Marinus de Kleuver, F. Cumhur Öner, S. Tim Yoon, Luiz R. Vialle, Hans-Joerg Meisel, Neha Agarwal, Patrick C. Hsieh, Andrea Skelly, Jong-Beom Park, Darrel ...

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Author: Hans-Joerg Meisel, Neha Agarwal, Patric...

Publish Year: 2019

Evaluating the efficacy of intervertebral disk ...

<https://www.mayoclinic.org/medical-professionals/...>

In animal studies, **stem cell** transplantation to the disk has shown promise in decelerating or arresting the **degenerative** process. However, small sample size, varying study designs and conflicting outcomes in preclinical animal trials have made it difficult to assess the effectiveness of this **treatment**.

Stem cells sources for intervertebral disc regeneration

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4877563>

May 26, 2016 · Core tip: This review paper aims to share recent advances in **stem cell therapy** for the **treatment** of **intervertebral disc degeneration**. The paper overviews the literature discussing the current status of our knowledge of the different **stem** cells types used as a **cell-based therapy** for **disc** ...

Cited by: 60

Author: Gianluca Vadalà, Fabrizio Russo, Luca A...

Publish Year: 2016

Cell therapy for intervertebral disc repair: Clinical ...

<https://www.sciencedirect.com/science/article/pii/S2214031X16302881>

Low back pain is the main cause of disability and is associated with **intervertebral disc degeneration**. **Contemporary treatments** are limited to **palliative therapeutics** or **aggressive surgical interventions**; however, current advancements in **cell therapy** offer to fill this breach.

Cited by: 27

Author: Daisuke Sakai, Jordy Schol

Publish Year: 2017