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### Basic Study

**Isolation and identification of adipose-derived stromal/stem cells from breast cancer patients after exposure neoadjuvant chemotherapy**

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### Abstract

#### BACKGROUND

With recent research advances, adipose-derived stromal/stem cells (ASCs) have been demonstrated to facilitate the survival of fat grafts and thus are increasingly used for reconstructive procedures following surgery for breast cancer. Unfortunately, in patients, following radiation and chemotherapy for breast cancer suggest that these cancer treatment therapies may limit stem cell cellular functions important for soft tissue wound healing. For clinical translation to patients that have undergone cancer treatment, it is necessary to understand the effects of these therapies on the ASC's ability to improve fat

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Evaluation of function and recovery of adipose-derived stroma



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### Evaluation of function and recovery of adipose-derived ...

<https://www.sciencedirect.com/science/article/pii/S1465324916305709>

The reported results from in vitro and ex vivo studies evaluating the effect of PTX on adipose-derived stem cell function provide support for the use of fat grafting or more direct introduction of stromal vascular fraction under Food and Drug Administration–approved research protocols in cancer patients undergoing chemotherapeutic treatment. The results suggest that PTX diminishes ASC function, may contribute to poor wound healing after treatment and impairs stem cell differentiation ...

Cited by: 10 Author: William M. Harris, Ping Zhang, Michael P...

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### Adipose-Derived Stem Cells in Novel Approaches to Breast ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5562338>

Adipose-derived stem cells possess tumour-supporting functions through provision of migratory cells which secrete trophic factors, increasing vascularisation and contributing to survival and proliferation of malignant cells. 140 Adipose tissue secretes cytokines known as adipokines, eg, TNF- $\alpha$ , IL-6, IL-8, PAI-1, MCP-1, adiponectin, resistin, leptin, insulin growth factor, and steroid hormones, some of which ...

Cited by: 10 Author: Niamh O'Halloran, Donald Courtney, Mich...

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### Adipose-Derived Stem Cells in Novel Approaches to Breast ...

<https://journals.sagepub.com/doi/abs/10.1177/1178223417726777>

Aug 16, 2017 · Adipose-derived stem cells (ADSCs) are rapidly becoming the gold standard cell source for tissue engineering strategies and hold great potential for novel breast reconstruction strategies. ...

Multipotent adipose stromal cells and breast cancer development: think globally, act locally. Mol Carcinog. ... Harris, WM, Zhang, P, Plastini, M ...

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6518258>

Apr 12, 2019 · The goal of this study was to evaluate the safety and efficacy of the use of Engineered Fat Graft Enhanced with Adipose-derived Stromal Vascular Fraction cells (EF-e-A) in breast reconstruction. 121 patients that were affected by the outcomes of breast oncoplastic surgery were treated with EF-e-A, comparing the results with the control group (n ...



Isolation and identification of adipose-derived stromal cells



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### Adipose-derived stromal cells ... - PubMed Central (PMC)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3097937>

Apr 26, 2011 · In Tables Tables3 3 and and4, 4, we have indexed all the clinical trials that we found using **adipose**, derived and **stem** as key-words on the “clinicaltrial” and “pubmed” websites. As discussed previously, there is some confusion about the use of the term **adipose**-derived stroma/**stem cells** either for ADSCs or crude SVF.

**Cited by:** 255      **Author:** Louis Casteilla, Valérie Planat-Benard, P...  
**Publish Year:** 2011

### Evaluation of function and recovery of adipose-derived ...

<https://www.sciencedirect.com/science/article/pii/S1465324916305709>

Introduction. **After** radiation and **chemotherapy** for **breast cancer** resections, poor soft tissue wound healing can pose a major clinical challenge , , , .With recent research advances, **adipose**-derived **stem cells** (ASCs) present in clinically applied fat grafts are considered to play a positive role in wound healing as evidenced by their increasing use in **breast** reconstructive procedures , , .

**Cited by:** 10      **Author:** William M. Harris, Ping Zhang, Michael Pl...  
**Publish Year:** 2017

### Adipose-Derived Stem Cells in Novel Approaches to Breast