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

**Manuscript NO:** 58129

**Manuscript Type:** REVIEW

**Adipose-derived stem cells: pathophysiologic implications versus therapeutic potential in systemic sclerosis**

Rosa I *et al.* ADSCs in systemic sclerosis

### Abstract

Adipose-derived stem cells (ADSCs) residing in the stromal vascular fraction (SVF) of white adipose tissue are recently emerging as an alternative tool for stem cell-based therapy in systemic sclerosis (SSc), a complex connective tissue disorder affecting the skin and internal organs with fibrotic and vascular lesions. Several preclinical and clinical studies have reported promising therapeutic effects of fat grafting and autologous SVF/ADSC-based local treatment for facial and hand cutaneous manifestations of SSc patients. However, currently available data indicate that ADSCs

Adipose-derived stem cells: pathophysiologic implications vs therape



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## Systemic Sclerosis Serum Steers the Differentiation of ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6723717>

Aug 19, 2019 · **Systemic Sclerosis** Serum Steers the Differentiation of **Adipose-Derived Stem Cells**

Toward Profibrotic Myofibroblasts: **Pathophysiologic Implications** Mirko Manetti , 1, \* † Eloisa Romano , 2, † Irene Rosa , 1, 2 Bianca Saveria Fioretto , 2 Emanuela Praino , 3 Serena Guiducci , 2 Florenzo Iannone , 3 Lidia Ibba-Manneschi , 1 and Marco Matucci ...

**Cited by:** 4

**Author:** Mirko Manetti, Eloisa Romano, Irene Rosa, ...

**Publish Year:** 2019

## Adipose Tissue-Derived Stem Cells: Immunomodulatory ...

<https://journals.physiology.org/doi/10.1152/physiol.00021.2019>

Feb 06, 2020 · Adipose-derived stem cells (ASCs) can self-renew and differentiate along multiple **cell lineages**. ASCs are also potently anti-inflammatory due to their inherent ability to regulate the immune system by secreting **anti-inflammatory cytokines and growth factors** that play a crucial role in the pathology of many diseases, including multiple sclerosis, diabetes mellitus, Crohn's, SLE, and graft ...

**Cited by:** 6

**Author:** Sara Al-Ghadban, Bruce A. Bunnell

**Publish Year:** 2020

## Systemic Sclerosis Serum Steers the Differentiation of ...

<https://pubmed.ncbi.nlm.nih.gov/31430950>

**Systemic Sclerosis** Serum Steers the Differentiation of **Adipose-Derived Stem Cells** Toward Profibrotic Myofibroblasts: **Pathophysiologic Implications** J Clin Med . 2019 Aug 19;8(8):1256. doi: 10.3390/jcm8081256.

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**Publish Year:** 2019

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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6723717>Aug 19, 2019 · **Systemic Sclerosis** Serum Steers the Differentiation of **Adipose-Derived Stem Cells**

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Publish Year: 2019

## Adipose-derived stem cell conditioned medium for the ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6557084>

**Stem cells** are promising **potential** treatments for multiple conditions, and researchers have demonstrated these effects broadly. Of these, **adipose-derived stem cells** (ASCs) are unique and have many benefits for the treatment of neural injury and disease. ASCs are multipotent mesenchymal **stem cells** that are easily obtained from adipose tissue.

Cited by: 1

Author: Chandler L Walker

Publish Year: 2019

## Adipose-Derived Stem Cells from Systemic Sclerosis ...

<https://www.mdpi.com/2077-0383/8/11/1979> ▼