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

**Manuscript NO:** 65203

**Manuscript Type:** REVIEW

Translational products<sup>8</sup> of adipose tissue-derived mesenchymal stem cells: Bench to  
bedside applications

Sharma S<sup>5</sup> *et al.* Adipose tissue-derived mesenchymal stem cells

Shilpa Sharma, Sathish Muthu, Madhan Jeyaraman, Rajni Ranjan, Saurabh Kumar Jha

### Abstract

With developments<sup>6</sup> in the field of tissue engineering and regenerative medicine, the  
usage of biological products for the treatment of various disorders has come into the  
limelight among researchers and clinicians. Among all the available biological tissues,  
the research and exploration of the adipose tissue have become more robust. Adipose  
tissue engineering aims in developing by-products and their substitutes for their



### Adipose-derived stem cells: Sources, potency, and ...

<https://www.sciencedirect.com/science/article/pii/S0753332219307346>

Jun 01, 2019 · **Adipose-derived stem cells** (ASCs) are a subset of **mesenchymal stem cells** (MSCs) that can be obtained easily from **adipose** tissues and possess many of the same regenerative properties as other MSCs. ASCs easily adhere to plastic culture flasks, expand in vitro, and have the capacity to differentiate into multiple **cell** lineages, offering the ...

### Adipose-Derived Stem Cells: Current Applications and ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7787857>

Dec 10, 2020 · Bobi J., Solanes N., Fernández-Jiménez R., et al. Intracoronary administration of allogeneic **adipose tissue-derived mesenchymal stem cells** improves myocardial perfusion but not left ventricle function, in a **translational** model of acute myocardial infarction. Journal ...

### Adipose-derived stem cell secretome as a cell-free product ...

<https://link.springer.com/article/10.1007/s13205-021-02958-7>

Aug 16, 2021 · Therapeutic advancements using **mesenchymal stem cells** (MSCs) isolated from the bone marrow have been extensively reported in literature. Irrespective of these promising reports, there is an increasing demand for non-BM sources like the **adipose tissue**, due to its **cell** abundance, ease of **tissue** access and isolation (Revilla et al. 2016).The subcutaneous white **adipose tissue** (WAT) is a desirable ...

### Immune modulation via adipose derived Mesenchymal Stem ...

<https://www.nature.com/articles/s41598-021-91870-4>

Jun 14, 2021 · Background. **Mesenchymal stem/stromal cells** (MSC) are a multi-potent, multifunctional **cell** type that are defined by their capability to proliferate, renew, differentiate and regenerate 1.**Tissue** ...

### Advancing stem cell therapy from bench to bedside: lessons ...

<https://translational-medicine.biomedcentral.com/...>

Sep 04, 2014 · The inadequacy of existing therapeutic tools together with the paucity of organ donors have always led medical researchers to innovate the current treatment methods or to discover new ways to cure disease. Emergence of **cell**-based therapies has provided a new framework through which it has given the human world a new hope. Though relatively a new concept, the pace of advancement clearly ...

### (PDF) Adipose Tissue-derived Stem Cells in Stroke ...

<https://www.researchgate.net/publication/255176242...>

Of all **cell**-types, **adipose tissue-derived mesenchymal stem cells** (AD-MSC) are considered good candidates for stroke treatment because of their abundance and easy harvesting without invasive ...

### From bench to bedside: use of human adipose-derived stem ...

<https://www.dovepress.com/from-bench-to-bedside...>

From **bench to bedside: use of human adipose-derived stem cells**. Abstract: Since the discovery of **adipose-derived stem cells** (ASC) in human **adipose tissue** nearly 15 years ago, significant advances have been made in progressing this promising **cell** therapy tool from the laboratory **bench to bedside** ...

### Adipose-derived stem cells: selecting for translational ...

[europepmc.org/articles/PMC4780212](https://europepmc.org/articles/PMC4780212)

**Adipose tissue**. At a cellular level, **adipose tissue** consists of mature adipocytes surrounded by fibroblasts, nerves, endothelial **cells**, immune **cells** and preadipocytic **cells** contained within a stromovascular **cell** network [].Enzymatic digestion of **adipose tissue**, specifically lipoaspirate, generates a heterogeneous population of adipocyte precursors within a pellet of **cells** termed the stromal ...

### Stem Cell Applications in Regenerative Medicine for Kidney ...

<https://www.hindawi.com/journals/sci/2021/9817324>

Jul 28, 2021 · In line with the benefits of MSC in CKD setting, a study by E. C. Costalonga et al. entitled "**Adipose-Derived Mesenchymal Stem Cells** Modulate Fibrosis and Inflammation in the Peritoneal Fibrosis Model Developed in Uremic Rats" described a model of CKD (induced by 0.75% adenine-containing diet for 30 days) and peritoneal fibrosis (induced by ...

### Concise Review: Adipose-Derived ... - Stem Cells Journals

<https://stemcellsjournals.onlinelibrary.wiley.com/doi/full/10.1002/stem.629>

Mar 23, 2011 · The following article was published since the time of acceptance and provides a comprehensive report of the commercial research and development outcomes for a human ASC product by a biotech company: Ra JC, Shin IS, Kim SH, et al. Safety of intravenous infusion of human **adipose tissue-derived mesenchymal stem cells** in animals and humans.

### Adipose Stem Cells: From Bench to Bedside. - Abstract ...

<https://europepmc.org/articles/PMC4819109>

Mar 21, 2016 · **Stem cell** biology plays an important role in promoting **cell**-based treatment. Adult **mesenchymal stem cells** (MSCs) are **derived** from various tissues including bone marrow [], **adipose tissue** [], dental pulp [], and Wharton jelly [].When compared to bone marrow **mesenchymal stem cells** (BM-MSCs), **adipose tissue** represents an ideal source for multipotent progenitors in adults [].

### Critical steps in the isolation and expansion of adipose ...

<https://www.cambridge.org/core/journals/expert...>

Jun 08, 2015 · Introduction. In the recent years, it has become apparent that **adipose-derived stem cells** (ASCs) have regenerative properties which include pro-angiogenic features (Ref. Reference Rasmussen 1), multilineage differentiation capacity (Ref. Reference Lund 2), immunosuppression of activated immune **cells** (Ref. Reference Melief 3) and the ability to home to injured areas (Refs Reference Baek, ...

### Skin Tissue Engineering: Application of Adipose-Derived ...

<https://www.hindawi.com/journals/bmri/2017/9747010>

Feb 27, 2017 · Perception of the **adipose tissue** has changed dramatically over the last few decades. Identification of **adipose-derived stem cells** (ASCs) ultimately transformed paradigm of this **tissue** from a passive energy depot into a promising **stem cell** source with properties of self-renewal and multipotential differentiation. As compared to bone marrow-**derived stem cells** (BMSCs), ASCs are more easily ...

### Cells | Free Full-Text | Mesenchymal Stem Cells, Bioactive ...

<https://www.mdpi.com/2073-4409/10/8/1925/html>

**Mesenchymal stem cell**-based therapies are promising tools for bone **tissue** regeneration. However, tracking **cells** and maintaining them in the site of injury is difficult. A potential solution is to seed the **cells**

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