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Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 54923

Manuscript Type: ORIGINAL ARTICLE

Basic Study

Assessment of tobacco heating system 2.4 on osteogenic differentiation of mesenchymal stem cells and primary human osteoblasts compared to conventional cigarettes

Romina H Aspera-Werz, Sabrina Ehnert, Monja Müller, Sheng Zhu, Tao Chen, Wei-Dong Weng, Johann Jacoby, Andreas K Nussler

Assessment of Tobacco Heating System 2.4 on osteogen



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Osteogenic Differentiation of Human Mesenchymal Stem ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4358956>

Cell culture. **Human Mesenchymal stem cells** (MSCs) obtained from two different male donors (Lonza Inc, Walkersville, MD, USA) were utilized in this study ().The MSCs were cultured at 37°C in a humidified atmosphere containing 5% CO₂ in **mesenchymal stem** cell growth medium (Lonza). To induce **osteogenic differentiation** the media was added bone morphogenetic protein 2 (BMP-2, 300ng/mL, ...

Cited by: 66

Author: Marita Westhrin, Minli Xie, Magnus Ø. Ol...

Publish Year: 2015

Osteogenic differentiation of human mesenchymal stem cells ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4959308>

Jul 12, 2016 - Over the past few years, the potential of using **human mesenchymal stem cells** (hMSCs) to regenerate different tissue types has been highlighted due to the cells' inherent capability to commit into different types of mature **cells** such as **osteoblasts** or chondrocytes, among others. 8,9 The **differentiation** of hMSCs into bone-forming **cells** has also ...

Shockwaves Induce Osteogenic Differentiation of Human ...

<https://stemcellsjournals.onlinelibrary.wiley.com/doi/10.1002/stem.1356>

Shockwave or ATP treatment induces **osteogenic differentiation** of human mesenchymal stem cells (hMSCs). (A) hMSCs were subjected to hypersonic (0.18 mJ/cm²) and then cultured for 14 or 20 days



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<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6628373>

Jun 14, 2019 · 2.1. CSE Downregulated TGF- β Signaling Through Disruption of **Primary** Cilia on SCP-1 **Cells**. Previous studies revealed that exposure to CSE disrupts the **primary** cilia structure and therefore impairs the **osteogenic differentiation** of the **human** telomerase reverse transcriptase immortalized single-cell **human mesenchymal** cell line (SCP-1 **cells**) [24,25]. ...

Cited by: 4

Author: Romina H. Aspera-Werz, Tao Chen, Sabr...

Publish Year: 2019

Electronic Cigarette Smoke Impairs Normal Mesenchymal ...

<https://www.nature.com/articles/s41598-017-14634-z>

Oct 27, 2017 · Synergistic effects of orbital shear stress on in vitro growth and **osteogenic differentiation** of **human** alveolar bone-derived **mesenchymal stem cells**. BioMed research international 2014 , 316803 ...

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Author: A. Shaito, J. Saliba, A. Husari, M. El-Hara...

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Cigarette smoke inhibits osteogenic differentiation and ...

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Jun 14, 2019 · 2.1. CSE Downregulated TGF- β Signaling Through Disruption of **Primary** Cilia on SCP-1 **Cells**. Previous studies revealed that exposure to CSE disrupts the **primary** cilia structure and therefore impairs the **osteogenic differentiation** of the **human** telomerase reverse transcriptase immortalized single-cell **human mesenchymal** cell line (SCP-1 **cells**) [24,25]. ...

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Author: Romina H. Aspera-Werz, Tao Chen, Sabri...

Publish Year: 2019

[Cigarette smoke inhibits osteogenic differentiation and ...](#)

<https://www.researchgate.net/publication/12091175...>

Although **osteoblasts** and osteoblast-like **cells** have been used extensively to study the impact of nicotine, few studies have been performed on **human mesenchymal stem cells** (hMSCs).

[Electronic Cigarette Smoke Impairs Normal Mesenchymal Stem ...](#)

<https://www.nature.com/articles/s41598-017-14634-z>

Oct 27, 2017 · Synergistic effects of orbital shear stress on in vitro growth and **osteogenic differentiation** of **human** alveolar bone-derived **mesenchymal stem cells**. BioMed research international 2014 , 316803 ...

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Publish Year: 2017

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Comparative analysis of **tobacco heating system** and combustion of **conventional cigarettes** on **osteogenic differentiation of mesenchymal stem cells** and **human osteoblasts**. Abstracts of the 85th Annual Meeting of the German Society for Experimental and Clinical Pharmacology and Toxicology (DGPT) and the 21th Annual Meeting of the Association of the ...

[Cinnamon-flavored electronic cigarette liquids and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6909334>