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The Effects of Environmental Stressors on Stem Cells



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## Stem Cells Help Researchers Study the Effects of ...

<https://www.elsevier.com/about/press-releases/research-and...> ▼

Stem Cells Help Researchers Study the Effects of **Pollutions** on **Human Health**. Appropriate subjects include basic and applied research on **atmospheric**, terrestrial and aquatic environments, **pollution control** and **abatement** technology, conservation of natural resources, **environmental** ...

## Environmental stress enhances the effects of pollutants ...

<https://www.sciencedaily.com/releases/2016/09/160921084600.htm> ▼

**Environmental stress** enhances the **effects** of pollutants Date: ... such as pesticides and heavy metals and at the same time examine the **effect** of **environmental stressors** – such as lack of food ...

## How Stress Affects Mental Health - Psych Central

<https://psychcentral.com/blog/how-stress-affects-mental-health> ▼

Oligodendrocyte Cells. This study shows that the oligodendrocyte cells might play a key role in long-term changes to the brain that could lead to mental health problems. The researchers also believe that the stem cells which, due to chronic stress, are becoming myelin-producing cells rather than neurons, affect cognitive function,...

## [PDF] February 2011 Stem Cell Models for Environmental Health

[nas-sites.org/emergingscience/files/2011/05/stemcells\\_final\\_Apr...](http://nas-sites.org/emergingscience/files/2011/05/stemcells_final_Apr...)

the utility of **stem cell** models in evaluating the **environmental stressors** that affect human health. Toxicologists and **environmental** health regulators learned about state-of-the-art **stem cell** models, including human **cells** that are derived from embryos, induced pluripotent **stem cells**, and adult lineage-

## [PDF] Special Issue: SBiRM: Focus on Impact of Environmental ...

<https://www.tandfonline.com/doi/pdf/10.3109/19396360903431638>

the two key effects of **stress**, decreased **cell** accumulation and modulation of differentiation of placental trophoblast **stem cells** (TSC). We will emphasize the kinds of **stress effects** induced by components of cigarette smoke such as Benzo(a)pyrene and nicotine, but also describe general **stressors** from experimental and clinical studies.

<sup>4</sup>  
**Name of Journal:** *World Journal of Stem Cells*

**Manuscript NO:** 46729

**Manuscript Type:** REVIEW

**The effects of environmental stressors on stem cells**

Worley JR *et al.* Environmental stressors and SCs

Jessica R Worley, Graham C Parker

## Abstract

Environmental toxicants are ubiquitous, and many are known to cause harmful health effects. However, much of what we know or think we know concerning the targets and long-term effects of exposure to environmental stressors is sadly lacking. Toxicant exposure may have health

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Despite the fact that **environmental** pollutants are a part of modern life, the impact **of environmental stress on** adult **stem cells** remains poorly understood. It has been suggested that **environmental** pollutants could exert their adverse **effect** by targeting **stem cell** function, resulting in changes in the **stem cell** differentiation potential and alterations of self-renewal capacity (

[PAX3 Confers Functional Heterogeneity in ... - cell.com](#)

[www.cell.com/cell-stem-cell/fulltext/S1934-5909\(19\)30118-3](http://www.cell.com/cell-stem-cell/fulltext/S1934-5909(19)30118-3)

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Muscle satellite cells (MuSCs) are the quiescent muscle stem cells required for adult skeletal muscle repair. The impact of environmental stress such ...

Cited by: 1

Author: Audrey Der Vartanian, Audrey Der Vartani...

Publish Year: 2019

[Stress and stem cells - PubMed Central \(PMC\)](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3812933>

Aging results in additional changes to systemic signals that can negatively impact stem cell function, for example, circulating factors in serum from old mice can inhibit muscle stem cell function. 30

Environmental stresses include **radiation** and **xenobiotic toxins**, often used as **anticancer therapies**.

31 **Anticancer therapies** typically function by hyper-stimulating otherwise repressed apoptosis or ...

[PDF] [fEbRUARy 2011 Stem Cell Models for Environmental Health](#)

[nas-sites.org/emergingscience/files/2011/05/stemcells\\_final\\_Apr2011-rev.pdf](http://nas-sites.org/emergingscience/files/2011/05/stemcells_final_Apr2011-rev.pdf)

create **stem cells** is controversial because of the potential, although unlikely, of cloning the person who donated the cells. It should be emphasized that the technology has not been successful in creating **embryonic stem cells** except in the mouse and would, in any case, cross a **second ethical boundary**, the destruction of many human eggs.