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The genomic integrity of human induced pluripotent stem cells (hiPSCs): from rep

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Pluripotent Stem Cells and Gene Therapy

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Human pluripotent stem cells represent an accessible **cell** source for novel **cell**-based clinical research and therapies. With the realization of **induced pluripotent stem cells** (iPSCs), it is possible to produce almost any desired **cell** type from any patient's **cells**.

Cited by: 28 **Author:** Pavel Simara, Pavel Simara, Jason A. M...
Publish Year: 2013

The propensity for tumorigenesis in human induced ...

www.ncbi.nlm.nih.gov › ... › Chin J Cancer › v.32(4); 2013 Apr

The propensity **for** tumorigenesis in **human induced pluripotent stem cells** is related with **genomic** instability. ... however, the relationship between tumorigenic potential and **genomic** instability in **human** iPSCs (**HiPSCs**) remains to be fully elucidated. ... (1 × 10 6), had 4 CNV loci, all of which were **induced** by **cell reprogramming** (Table 3).

Cited by: 13 **Author:** Yi Liang, Hui Zhang, Qi-Sheng Feng, Man...
Publish Year: 2013

Concise Review: Genomic Stability of Human Induced ...

https://onlinelibrary.wiley.com/doi/full/10.1002/**stem**.705

The usefulness **of human induced pluripotent stem cells** (**hiPSCs**) in research and therapeutic applications highly relies on their **genomic integrity** and stability. Many laboratories including ours have addressed this concern by comparing **genomic** (at both karyotypic and subkaryotypic levels) and epigenomic abnormalities of hiPSC lines (derived via ...

Cited by: 123 **Author:** Kristen Martins-Taylor, Kristen Martins-Ta...
Publish Year: 2012

Name of Journal: *World Journal of Stem Cells*

Manuscript NO: 47333

Manuscript Type: REVIEW

Genomic integrity of human induced pluripotent stem cells: Reprogramming, differentiation and applications

Clara Steichen, Zara Hannoun, Eléanor Luce, Thierry Hauet, Anne Dubart-Kupperschmitt

Abstract

Ten years after the initial generation of induced pluripotent stem cells (hiPSCs) from

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Genomic integrity of human induced pluripotent stem cells: Reprogramming, diffe

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Embryonic stem cells or induced pluripotent stem cells? A ...

https://**www.ncbi.nlm.nih.gov**/pmc/articles/PMC3947934

Keywords: **Induced pluripotent stem cells**, **cell reprogramming**, **genetic abnormalities**, **pluripotency**, DNA damage, **genome integrity INTRODUCTION Embryonic stem cells** (ESCs), which can theoretically differentiate into any **cell** type, have become a key **cellular** tool in biology and have paved the way for **cell-based** treatments of **human diseases** [1].

Cited by: 23 **Author:** Qiang Bai, Romain Desprat, Bernard Klei...
Publish Year: 2013

Mechanisms maintaining genomic integrity in embryonic ...

https://**www.ncbi.nlm.nih.gov**/pmc/articles/PMC4077782

Induced pluripotent stem cells (IPSCs) were independently generated by several groups in 2006–2007, first from mouse **cells** 5–7 and later from **human cells**. 8–9 Through the introduction of combinations of several genes typically expressed during early embryogenesis, somatic **cells** could be "**reprogrammed**" to mimic ESCs. These **reprogrammed** ...

Cited by: 70 **Author:** Elisia D Tichy
Publish Year: 2011

Concise Review: Genomic Stability of Human Induced ...

https://**stemcells**journals.onlinelibrary.wiley.com/doi/full/10.1002/**stem**.705

Aug 05, 2011 · Summary of **recurrent changes** in **human embryonic stem cells and human induced pluripotent stem cells** following prolonged culture Analysis of **Integration** Sites in the **Genome** During **iPSC derivation** using lentiviral or retroviral transduction, the viral vectors that express the **reprogramming factors** integrate into the **genome** of the **somatic cells**.

Cited by: 119 **Author:** Kristen Martins-Taylor, Kristen Martins-Ta...
Publish Year: 2012

Genomic Integrity - Quality Control - Pluripotent - Areas ...

https://www.**stemcell**.com/.../quality-control/**genomic-integrity**.html

Genetic Stability of Human Pluripotent Stem Cells. **Human pluripotent stem cells** (**hPSCs**) are valuable tools for modeling **human disease**, as well as a source of **differentiated cells** for use in **regenerative medicine** and drug discovery.