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Name of Journal: *World Journal of Stem Cells*

ESPS Manuscript NO: 22054

Manuscript Type: Review

Towards *in vivo* amplification: overcoming hurdles in the use of hematopoietic stem cells in transplantation and gene therapy


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Stem cells in tissue engineering

P Bianco, PG Robey - Nature, 2001 - nature.com

... Homologous recombination and site-directed mutagenesis of stem cells ex vivo would be ...
innovative technique with huge therapeutic potential must be balanced against stringent standards ...
Shizuru, JA, Uchida, N., Tsukamoto, A. & Weissman, IL Toward regenerative medicine. ...

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nature.com 中的 [HTML]

Biology of hematopoietic stem cells and progenitors: implications for clinical application

M Kondo, AJ Wagers, MG Manz... - Annual review of ..., 2003 - annualreviews.org

... 1 α in the circulation mobilizes stem and progenitor cells (156), and antibodies against CXCR4
or ... In vivo treatment of mice with various HSC-mobilizing agents including G-CSF, SIF, and ...
proteases degrade bone marrow-expressed VCAM-1 and SDF-1 α in vitro, and reduced ...

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uiowa.edu 中的 [PDF]

Placental blood as a source of hematopoietic stem cells for transplantation into unrelated recipients

J Kurtzberg, M Laughlin, ML Graham... - ... England Journal of ..., 1996 - Mass Medical Soc

... Prophylaxis with trimethoprim-sulfamethoxazole against Pneumocystis carinii was initiated before
transplantation. ... has yet to be explained, but it parallels observations made in vitro and in ... Ex vivo
expansion of stem cells and progenitor cells might circumvent this problem. ...

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[HTML] Human hematopoietic stem/progenitor cells modified by zinc-finger nucleases targeted to CCR5 control HIV-1 in vivo

N Holt, J Wang, K Kim, G Friedman, X Wang... - Nature ..., 2010 - nature.com

... CCR5 disruption was measured by PCR amplification across the ZFN target site, followed by ...
analysis was performed on 60 cloned human CCR5 alleles. PCR amplified from intraepithelial

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Gene therapy returns to centre stage : Nature : Nature ...

go.nature.com/vtXPpv - 翻译此页

作者: L Naldini - 2015

2015年10月15日 - Abstract: **Haematopoietic-stem-cell gene therapy**; Liver-directed **gene therapy** ... of HSC **transplantation** to be **overcome** in metachromatic leukodystrophy. ... The **use** of T cells for cancer immunotherapy arose from seminal ... traced to the ex **vivo** activation and **amplification** — and subsequent **in vivo** ...

11. Use of Genetically Modified Stem Cells in Experimental ...

stemcells.nih.gov/info/scireport/pages/chapter11.aspx ▾ 翻译此页

2015年5月24日 - **Gene therapy** **uses** genetic engineering—the introduction or elimination ... **toward** complex, chronic diseases that involve more than one gene. ... The ability of **hematopoietic stem cells** to give rise to many different types ... In principle at least, the **use** of human embryonic stem cells might **overcome** some of ...

5. Hematopoietic Stem Cells [Stem Cell Information]

stemcells.nih.gov/info/scireport/pages/chapter5.aspx ▾ 翻译此页

Hematopoietic stem cell transplants are now routinely **used** to treat patients with ... themselves) and differentiate (become specialized to other cell types) **in vitro** (in the test ... Until scientists **overcome** these technical barriers, they believe it is unlikely that Prospecting for the most receptive HSCs for **gene therapy**, Orlic and ...

Expansion of hematopoietic stem cells for transplantation ...

ehonline.biomedcentral.com/articles/10.../2162-3619-1-12 ▾ 翻译此页

作者: JA Schuster - 2012 - 被引用次数: 10 - 相关文章

Stem cell expansion Gene therapy Epigenetics Umbilical cord blood HOXB4 SALL4 Notch ... Ex **vivo** expansion of HSCs is crucial for their **use** in the treatment of ... **stem cells** from UCB: the initial uses were directed **toward** pediatric therapies [4] ... to overcome