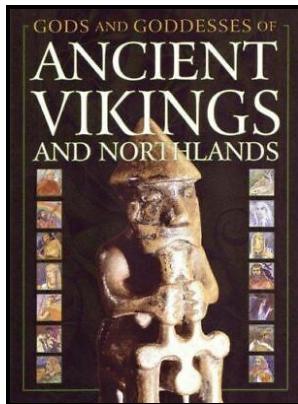


# Medicine - Stem Cells, Genes & Superbeams (Cutting Edge)

## Heinemann Library - Pros and Cons of Stem Cell Therapy



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This edition was published in August 30, 2005



Filesize: 70.51 MB

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### Genes, Drugs and Stem Cells

In unregulated clinical settings, stem cells can be worthless or even harmful. This is particularly important because many other types of human cells derived from patients tend to stop growing after a few passages in laboratory culture. Since the retroviruses used to deliver the four transcription factors in the earliest studies can potentially cause mutagenesis see below , researchers have investigated whether all four factors are absolutely necessary.

### **stem cell**

Gene Therapy vs Stem Cell Therapy Gene therapy is a method used to treat diseases by introducing correct or healthy genes into patients using a vector.

### **regenerative medicine**

It should be noted that the functional implications of these findings are presently unknown, and observed differences may ultimately prove functionally inconsequential. Osaka University announced that it had filed an application with the Ministry of Health, Labor and Welfare on the same day. Unfortunately for Brenden, he has suffered life-threatening infections that have required him to be hospitalized hundreds of times throughout most of his childhood.

### **Patient**

Red cells indicate the cells expressing the exogenous genes. Additionally, near complete protection of motor neurons and other cells was observed. For instance, bone marrow stem cells may be able to create bone or heart muscle cells.

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