



New Stem Cell Treatment

High standard German clinic treats degenerative diseases. Request info
www.xcell-center.com/StemCells

Healthy Liver

MD-developed herbal support for liver disease cirrhosis & hepatitis
www.goutwell.com

Stem Cell Research

The New York Times looks at the complex moral and scientific issues
www.nytimes.com

Stem Cell Research

Stem Cell news and information
 Free Daily Biotech News and Info
www.fiercebiotech.com/stemcell

News

[Health & Medicine](#)

Articles

[Mind & Brain](#)

Videos

[Plants & Animals](#)

Images

[Earth & Climate](#)

Books

[Space & Time](#)

[Matter & Energy](#)

[Computers & Math](#)

[Fossils & Ruins](#)

Search

Science News

[Share](#) [Blog](#) [Cite](#)

[Print](#) [Email](#) [Bookmark](#)

Bone Marrow Alternative: Stem Cells From Umbilical Cord May Be Used To Treat Hepatic Diseases

ScienceDaily (July 3, 2008) — Scientists from the University of Granada (Spain), in collaboration with the University of León, have confirmed that stem cells from human umbilical cord blood can be an appropriate therapy for the treatment of hepatic diseases such as hepatitis, and are therefore an effective alternative to bone marrow.

See also:

Health & Medicine

- [Stem Cells](#)
- [Lymphoma](#)
- [Immune System](#)
- [Skin Cancer](#)
- [Diseases and Conditions](#)
- [Bone and Spine](#)

Reference

- [Liver](#)
- [Bone marrow transplant](#)
- [Liver transplantation](#)
- [Transplant rejection](#)

According to a scientific paper to be published in the journal Cell Transplantation, human umbilical cord blood cells (HUCBCs) are useful for hepatic regenerative medicine, as they are capable of nesting in the liver after carrying out a xenotransplant from human to rat.

This work, carried out by Ana I. Álvarez-Mercado, María J. Sáez-Lara, María V. García-Mediavilla, Sonia Sánchez-Campos, Francisco Abadía, María Cabello-Donayre, Ángel Gil, Javier González-Gallego and Luis Fontana, did research into the regenerative potential of HUCBCs cells using a xenotransplant model from human to rat in which HUCBCs were injected through the hepatic portal vein of rats with hepatitis caused by D-galactosamine.

Significant improvements

The scientists explain that the cell transplant carried out in rats caused an improvement both in the histological damage and in the hepatic function, as proved by the enzymatic activities of alanine transaminase, alkaline phosphatase, gamma-glutamyl-transpherase and lactate dehydrogenase, as well as the concentrations of total and direct bilirubin.

The present treatment for terminal hepatic failure consists of a liver transplant. This method is, however, limited due to the lack of donor organs. In addition, there is not at present a specific treatment for the fibrosis caused by many hepatic diseases, so that receive a treatment for the complications of the disease. The development of such alternatives is therefore an essential objective for present research to improve suffering in many patients.

Adapted from materials provided by [Universidad de Granada](#).

Need to cite this story in your essay, paper, or report? Use one of the following formats:

- APA Universidad de Granada (2008, July 3). Bone Marrow Alternative: Stem Cells From Umbilical Cord May Be Used To Treat Hepatic Diseases. *ScienceDaily*. Retrieved July 4, 2008, from <http://www.sciencedaily.com/releases/2008/07/080703115403.htm>
- MLA

Ads by Google

[Advertise here](#)

Liver Disease Information

Answers to your questions about fatty liver, cirrhosis and more!

yourtotalhealth.ivillage.com

Growth Factors

Research Antibodies and Proteins that Work. Priced Right.

www.neuromics.com

Reasons Your Belly is Fat

Stop making these 5 mistakes & you will finally lose your belly fat!

www.BellyFatIsUgly.net

Bone Marrow Diseases

in-depth advice on how to deal with bone marrow diseases.

www.velcade.info

UK in South of Spain ?

Worldwide Healthcare Insurances Offer & Subscription for UK Expats

www.triumfinance.be

Related Stories

Fetal Bone Marrow Best Source Of Stem Cells For Transplantation

(June 6, 1997) — Georgetown research shows that fetal bone marrow is the best source of stem cells for bone marrow transplants, better than umbilical cord blood or adult bone ...

> [read more](#)

Umbilical Cord Blood Transplant: Effective New Leukemia Treatment For Adults

(June 19, 2001) — In the first published study of its kind, researchers at the Ireland Cancer Center at University Hospitals of Cleveland and Case Western Reserve University have demonstrated the successful use of ...

> [read more](#)

Therapeutic Potential Of Cord Blood Stem Cells Enhanced With New Technology

(June 10, 2008) — A CD26 Inhibitor increases the efficiency and responsiveness of umbilical cord blood for bone marrow transplants and may improve care for blood cancer patients according to ...

Sibling Cord Blood May Offer Best Match Chance For Some Patients

(Dec. 7, 1998) — Children needing bone marrow transplants may find their best chance in umbilical cord blood from a sibling, even if the transplant is only partially matched to the recipient's blood type, ...

> [read more](#)

Search ScienceDaily

Number of stories in archives: 44,032

Find with keyword(s):

Search

Enter a keyword or phrase to search ScienceDaily's archives for related news topics, the latest news stories, reference articles, science videos, images, and books.

Ads by Google

[Advertise here](#)

Proven Cure for Cancer

Safe Effective & Lasting Treatment That Saved Terminally Ill Patients
www.gemm-therapy.com

Kidney Cancer Treatment

Free evaluation and treatment for Kidney Cancer patients at NIH.
patientrecruitment.nhlbi.nih.gov

Cell Therapy Services

Custom manufacturing and process development from Lonza.
www.lonza.com