

April 5, 2010



Stem Cells from Menstrual Blood May Benefit Stroke Patients

Study in STEM CELLS AND DEVELOPMENT Demonstrates Potential to Reverse Neural Trauma After Stroke

OLDSMAR, Fla., April 5 /PRNewswire-Firstcall/ ----Cryo-Cell International, Inc. today announced results of a study published this month in the cover article of *Stem Cells and Development* showing that stem cells found in menstrual blood may one day be a potential source for stem cell therapies in stroke and other central nervous system disorders.

Menstrual stem cells, known as MenSCs, offer an easily accessible, non-controversial and renewable stem cell source with the potential to one day treat a host of diseases, such as stroke, osteoporosis, Alzheimer's and Parkinson's disease, according to a number of early studies. The study, entitled "Menstrual Blood Cells Display Stem Cell-Like Phenotypic Markers and Exert Neuroprotection Following Transplantation in Experimental Stroke," was conducted by researchers at Cryo-Cell International, the University of South Florida, Saneron-CCEL Therapeutics and the Medical College of Georgia.

Because the cell damage after an initial stroke episode occurs over an extended time, treatment strategies directed at quickly rescuing these nerve cells have the potential to slow the disease progression and possibly restore nerve function. In this study, researchers found that transplantation of MenSCs, either directly into the brain or peripherally, significantly reduced behavioral and histological abnormalities, suggesting that the MenSCs had a protective effect on brain cells, averting further apoptosis, or cell death, and potentially reversing the neural trauma experienced during a stroke.

"The data shows immediate behavioral recovery at an early period after transplantation although the exact mechanism underlying the neural benefits of MenSCs remains unknown," said lead researcher Cesar V. Borlongan Ph.D., Professor and Vice-Chair of Neurosurgery and Brain Repair at the University of South Florida Health. "We do know that several trophic factors have been identified post transplant that may potentially point to a secretion of therapeutic substances from MenSCs versus one of cell replacement. Equally important, is that there was no instance of complications or negative effects such as detectable tumor, ectopic formation or overt graft-versus-host in any of the transplanted animals."

During the study, the investigators analyzed shed menstrual blood and tissue to identify MenSCs. The samples were obtained using a menstrual cup and transferred to a laboratory for processing and cryopreservation. After inducing a simulated stroke (oxygen glucose deprivation, OGD) on adult rats, the researchers injected the rats with menstrual blood-derived stem cells and found that those who were exposed to MenSCs exhibited a significantly reduced death rate. Behavioral assessments of motor coordination and neurological function were performed on the rats 14 days after stroke-transplantation and indicated improvements in both motor and neurological abnormalities.

"Compared to other stem cell sources, such as bone marrow and umbilical cord blood, MenSCs are harvested from a readily available and renewable source of adult mesenchymal stem cells. These novel and highly prolific stem cells are easily obtained using non-invasive methodology and create the potential for matched cell transplantations in large scale clinical trials," said Julie Allickson, Ph.D., study investigator and Vice President, Laboratory Operations, Research and Development at Cryo-Cell International, Inc.

The benefits of stem cells derived from menstrual blood were first indicated in a study sponsored by Cryo-Cell that was published in *Cell Transplantation* in April 2008. That study demonstrated that MenSCs are stromal stem cells, meaning they have the capability to differentiate into important cells, such as bone, cartilage, fat, nerve and cardiogenic cells.

"Stroke is the third leading cause of death and disability in U.S. adults," said Mercedes A. Walton, Cryo-Cell's Chairman and CEO. "According to the American Heart Association, stroke will cost almost \$68.9 billion in both direct and indirect healthcare costs in 2009. In view of these statistics, we are clearly encouraged by research study results that demonstrate significant promise for the development of regenerative medicine therapies to potentially treat and manage the debilitating conditions caused by stroke and possibly other neurological disorders."

The C'elle(SM) service is based on Cryo-Cell's expansive IP technology portfolio and was introduced in November, 2007 as the first and only service that empowers women to collect and cryopreserve menstrual flow containing undifferentiated adult stem cells for future utilization by the donor or possibly first-degree relatives in a manner similar to umbilical cord blood stem cells. Based on the continued success of MenSCs in the research setting, Cryo-Cell is actively expanding its portfolio of research collaborations with world renowned scientists committed to study this novel stem cell population for a broad range of regenerative therapeutic development.

About C'elle

The C'elle(SM) service was introduced in November 2007 as the first and only service that empowers women to collect and cryopreserve menstrual flow containing undifferentiated adult stem cells for future utilization by the donor or possibly their first-degree relatives in a manner similar to umbilical cord blood stem cells. For more information, visit <http://www.Celle.com>

About Cryo-Cell International, Inc. (OTC Bulletin Board: CCEL)

Based in Oldsmar, Florida, with over 200,000 clients worldwide, Cryo-Cell is one of the largest and most established family cord blood banks. ISO 9001:2000 certified and accredited by the AABB, Cryo-Cell operates in a state-of-the-art Good Manufacturing Practice and Good Tissue Practice (cGMP/cGTP)-compliant facility. Cryo-Cell is a publicly traded company. OTC Bulletin Board Symbol: CCEL. For more information, please call 1-800-STOR-CELL (1-800-786-7235) or visit www.cryo-cell.com.

About Saneron CCEL Therapeutics, Inc.

Saneron is a biotechnology R&D company, focused on neurological and cardiac cell therapy

for the early intervention and treatment of several devastating or deadly diseases, which lack adequate treatment options. Saneron, a University of South Florida spin-out company is located at the Tampa Bay Technology Incubator. An affiliate of Cryo-Cell International, Inc. Saneron is committed to providing readily available, non-controversial, ethically acceptable cells, both stem cells and other cell types, for cellular therapies.

Forward-Looking Statement

Statements wherein the terms "believes", "intends", "projects" or "expects" as used are intended to reflect "forward-looking statements" of the Company. The information contained herein is subject to various risks, uncertainties and other factors that could cause actual results to differ materially from the results anticipated in such forward-looking statements or paragraphs, many of which are outside the control of the Company. These uncertainties and other factors include the uncertainty of market acceptance of any potential service offerings relating to types of stem cells other than cord blood stem cells, including the C'elle service, given that menstrual stem cells and other new stem cells have not yet been used in human therapies, and treatment applications using such stem cells may not be developed and commercialized; or if they are not likely to be developed or commercialized for many years and are subject to further research and development; the need for additional development and testing before determining the ultimate commercial value of the Company's intellectual property relating to the menstrual stem cells; the need to complete certain developments, including completion of clinical validation and testing, before any new process other than C'elle can be commercialized, and the Company's development of its final business and economic model in offering any such service; any adverse effect or limitations caused by recent increases in government regulation of stem cell storage facilities; any increased competition in our business; any decrease or slowdown in the number of people seeking to store stem cells or decrease in the number of people paying annual storage fees; any technological breakthrough or medical breakthrough that would render the Company's business of stem cell preservation obsolete; and any other risk factors described in our filing with the Securities and Exchange Commission. The foregoing list is not exhaustive, and the Company disclaims any obligations to subsequently revise any forward-looking statements to reflect events or circumstances after the date of such statements. Readers should also carefully review the risk factors described in other documents the Company files from time to time with the Securities and Exchange Commission, including the most recent Annual Report on Form 10-KSB, Quarterly Reports on Form 10-QSB and any Current Reports on Form 8-K filed by the Company.

Contact:

General Media Inquiries

Julia Nissim

312-240-3182

Julia.Nissim@edelman.com

Financial Media Inquiries

Cryo-Cell International, Inc.

Investor Relations

Dianne Will

518-398-6222

dwill@willstar.net

SOURCE Cryo-Cell International, Inc.