

# International Stem Cell Corporation Develops Technology to Replace Cartilage for the Treatment of Osteoarthritis

Release: 9/30/2015 8:30:00 AM

CARLSBAD, CA--(Marketwired - September 30, 2015) - International Stem Cell Corporation (OTCQB: ISCO)([www.internationalstemcell.com](http://www.internationalstemcell.com), ISCO or the Company), a California-based biotechnology company developing novel stem cell-based therapies, today announced that the Company's scientific team has developed a robust innovative technology to generate functional articular cartilage from the patient's own skin or adipose tissue to treat osteoarthritis. This breakthrough technology may allow ISCO to not only address the therapeutic needs of patients suffering from osteoarthritic knee joints, but to also treat those with shoulder joints and intervertebral spinal disk osteoarthritis.

"While we are working on obtaining regulatory approval for the Parkinson's disease treatment in Australia, as well as in the US, we are also pursuing a number of other therapeutic indications including osteoarthritis, which can potentially be treated with the patient's own cells," commented ISCO's chief scientific officer, Ruslan Semechkin, PhD.

Despite the high prevalence of osteoarthritis, currently there is a lack of an effective treatment for this disease. ISCO developed and successfully tested a scalable system that permits the generation of functional human cartilage tissue with superior mechanical properties and, more importantly, the capacity to provide greater stability than other tissue that is currently available for the treatment of osteoarthritis.

Osteoarthritis is a degenerative joint disease characterized by progressive erosion of the articular cartilage. Although osteoarthritis can damage any joint in the body, the disorder most commonly affects joints in the hands, knees, hips and spine. The erosion of articular cartilage leads to joint pain, stiffness, and impaired mobility. According to the Arthritis foundation osteoarthritis affects over 27 million Americans with an estimated medical costs of as much as \$65 billion.

## About International Stem Cell Corporation

International Stem Cell Corporation is focused on the therapeutic applications of human parthenogenetic stem cells (hpSCs) and the development and commercialization of cell-based research and cosmetic products. ISCO's core technology, parthenogenesis, results in the creation of pluripotent human stem cells from unfertilized oocytes (eggs). hpSCs avoid ethical issues associated with the use or destruction of viable human embryos. ISCO scientists have created the first parthenogenetic, homozygous stem cell line that can be a source of therapeutic cells for hundreds of millions of individuals of differing genders, ages and racial background with minimal immune rejection after transplantation. hpSCs offer the potential to create the first true stem cell bank, UniStemCell™. ISCO also produces and markets specialized cells and growth media for therapeutic research worldwide through its subsidiary Lifeline Cell Technology ([www.lifelinecelltech.com](http://www.lifelinecelltech.com)), and stem cell-based skin care products through its subsidiary Lifeline Skin Care ([www.lifelineskincare.com](http://www.lifelineskincare.com)). More information is available at [www.internationalstemcell.com](http://www.internationalstemcell.com).

To subscribe to receive ongoing corporate communications, please click on the following link:  
<https://www.b2i.us/irpass.asp?BzID=1468&to=ea&s=0>.

To like our Facebook page or follow us on Twitter for company updates and industry related news, visit:  
[www.facebook.com/InternationalStemCellCorporation](http://www.facebook.com/InternationalStemCellCorporation) and [www.twitter.com/intlstemcell](http://www.twitter.com/intlstemcell).

## Safe harbor statement

Statements pertaining to anticipated developments, expected clinical studies (including timing and results), progress of research and development, and other opportunities for the company and its subsidiaries, along with other statements about the future expectations, beliefs, goals, plans, or prospects expressed by management constitute forward-looking statements. Any statements that are not historical fact (including, but not limited to statements that contain words such as "will," "believes," "plans," "anticipates," "expects," "estimates,") should also be considered to be forward-looking statements. Forward-looking statements involve risks and uncertainties, including, without limitation, risks inherent in the development and/or commercialization of potential products, regulatory approvals, need and ability to obtain future capital, application of capital resources among competing uses, and maintenance of intellectual property rights. Actual results may differ materially from the results anticipated in these forward-looking statements and as such should be evaluated together with the many uncertainties that affect the company's business, particularly those mentioned in the cautionary statements found in the company's Securities and Exchange Commission filings. The company disclaims any intent or obligation to update forward-looking statements.