ACell MatriStem Technology Ranks Highest in Constructive Remodeling

The Associated Press

ACell, Inc., a leading developer of next-generation regenerative medicine products, announced today that its MatriStem medical devices demonstrate the highest constructive remodeling response in a recent study comparing 14 extracellular matrices (ECM) designed to aid in surgical procedures.

Constructive remodeling is healing through the creation of site-appropriate new tissue, which is in contrast to scarring, the typical healing response characterized by hard fibrous tissue without blood supply or nerves. Healing by constructive remodeling is clinically and functionally superior because it results in healthy viable tissue that most closely resembles the area that is missing or damaged. In the study, constructive remodeling was assessed by the presence of the M2 macrophage phenotype, while scarring was assessed by the presence of the M1 macrophage phenotype. These cells have been shown to play distinct roles in tissue remodeling following injury.

In the preclinical study, MatriStem elicited an early strong constructive remodeling response, with increased numbers of M2 macrophages and higher ratios of M2:M1 macrophages, which led to the most favorable host remodeling response among all studied matrices at both 14 and 35 days post-surgery. This response was determined through specific cell staining and was correlated to long-term tissue remodeling outcomes.

"Clinicians that use MatriStem have seen unparalleled results in wound care and across various surgical procedures due to its ability to promote healing with healthy, natural tissue," said Rodney Bosley, ACell President & COO. "The published scientific evidence supports the reason for these superior results, by demonstrating that the strong early M2 macrophage response associated with MatriStem positively impacts the final healing outcome." ACell, Inc. offers the next generation of regenerative medicine through the development and commercialization of unique extracellular matrix products to repair and remodel damaged tissues in a broad range of applications. Its patented MatriStem ECM medical devices maintain and support a healing environment through constructive remodeling and are available in particle and sheet forms for the treatment of acute wounds and various surgical procedures. For more information, visit www.acell.com.

About ACell, Inc.
ACell, Inc. is a leading developer, manufacturer and marketer of next-generation regenerative medicine products. Its medical devices are cleared for a variety of indications and are marketed under the brand name "MatriStem." A privately held Company, ACell produces MatriStem at its full scale manufacturing facilities in Columbia, MD and Lafayette, IN, and markets its products to physicians in the U.S.

through a national direct sales force. For more information, call (800) 826-2926 or visit www.acell.com.

About MatriStem
MatriStem Products are porcine-derived extracellular matrix (ECM), essential structures that maintain and support a healing environment through constructive tissue remodeling. MatriStem contains the basement membrane of porcine urinary bladder tissue, or urinary bladder matrix (UBM). UBM is a layer of tissue that is a critical component of constructive tissue remodeling. It provides MatriStem with several distinguishable characteristics, including the ability to promote new tissue growth while avoiding scar tissue formation; the ability to be used "off-the-shelf" and and stored at room temperature, with an approximate 2 year shelf life; and superior ease-of-use characteristics. MatriStem comes in a range of sizes and thicknesses and is the only ECM available in powder form. It has been cleared for use in general surgery, gynecological surgery and a wide range of wounds, including diabetic foot ulcers, venous leg ulcers, pressure, surgical, and tunneled wounds. Refer to IFU supplied with each device for indications, contraindications, and precautions. All MatriStem devices are made in the USA.

1 BN Brown et a. Acta Biomaterialia 8 (2012) 978-987, via http://www.sciencedirect.com/science/article/pii/S1742706112000918

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