Amedica's Silicon Nitride Performed 400% Better Than PEEK in Recent Cell Adhesion Study

SALT LAKE CITY, March 02, 2016 (GLOBE NEWSWIRE) -- Amedica Corporation (Nasdaq:AMDA), a company that develops and commercializes silicon nitride ceramics as a biomaterial platform, is pleased to announce a collaboration with Celling Biosciences, a leader in autologous cellular therapy technologies, to research and develop biologically enhanced implants. As part of the initial phase of the collaboration, Celling Biosciences' team of scientists produced research indicating mesenchymal stem cells can be optimized and proliferate when using silicon nitride compared to the current PEEK and titanium biomaterial standards.

Results from the recent *in vivo* scientific study show that Amedica's proprietary silicon nitride composition significantly outperformed PEEK in attachment testing of mesenchymal stem cells. Amedica's unique silicon nitride biomaterial contains natural nano-surface topography and chemistry that play an active role in implant integration, which current trends in surface modification efforts have not replicated. The results of the study suggest the microenvironment of silicon nitride promotes better cell adhesion and compatibility with five times greater cell adhesion as compared to the PEEK material used.

With the initial research phase completed, Celling Biosciences will then translate the early findings to clinical trials in spinal and orthopedic applications. This collaborative research will further define the clinical advantages of silicon nitride in combination with stem cell-based therapies. Based on further scientific findings, the intellectual property from both partners could be leveraged to create innovative solutions that promote a robust nanotechnology.

"The initial findings by Celling Biosciences further validate the unique benefits of our medical-grade silicon nitride technology platform," said Dr. Sonny Bal, Chairman and Chief

Executive Officer. "We look forward to continued research and future publications to underscore the favorable cell adhesion properties of silicon nitride, which are paramount to rapid bone fusion and improved patient outcomes."

"As an industry, we continue to strive for innovation beyond current standards and Celling Biosciences has always focused on innovating standards of the future," stated Mr. Kevin Dunworth, Chief Executive Officer of Celling Biosciences. "Current trends show many evolutions of surface modifications and surface treatments around PEEK and titanium, but we believe Amedica's proprietary technology is the future progression of biologically enhanced implants. Coupled with our ability to process tissue and apply those cells to cell-centric materials, such as silicon nitride, we look forward to further collaboration and optimizing the environment for healing."

About Amedica Corporation

Amedica is focused on the development and application of interbody implants manufactured with medical-grade silicon nitride ceramic. Amedica markets spinal fusion products and is developing a new generation of wear- and corrosion-resistant implant components for hip and knee arthroplasty as well as dental applications. The Company's products are manufactured in its ISO 13485 certified manufacturing facility and through its partnership with Kyocera, one of the world's largest ceramic manufacturers. Amedica's spine products are FDA-cleared, CE-marked, and are currently marketed in the U.S. and select markets in Europe and South AmericaÂÂÂ through its distributor network and its growing OEM and private label partnerships.

For more information on Amedica or its silicon nitride material platform, please visit

www.amedica.com .

About Celling Biosciences

Celling Biosciences is a transformative provider of autologous cell therapies by integrating excellence in research, medical education, advocacy, and product development. Celling's proprietary technologies process autologous tissues through methods of minimal manipulation at the point of care. Celling's research and development focuses on the human body's environment of healing including cells, substrates and implants in all applications of medicine.

For more information on Celling Biosciences, please visit http://cellingbiosciences.com/ .

Forward-Looking Statements

This press release contains statements that constitute forward-looking statements within the meaning of the Securities Act of 1933 and the Securities Exchange Act of 1934, as amended by the Private Securities Litigation Reform Act of 1995. Forward-looking statements contained in this press release include, but are not limited to, the intent, belief or current expectations of Amedica and members of its management team with respect to Amedica's future performance, business operations and acceptance of its technology platform. Statements relating to Amedica's expectation that scientific results may result in innovative solutions, increased market opportunities, growth, future products, market acceptance of its products, sales and financial results and similar statements are subject to risks and uncertainties such as the timing and success of new product introductions, physician acceptance, endorsement, and use of Amedica'sproducts, regulatory matters, competitor activities, changes in and adoption of reimbursement rates, potential product recalls, effects of global economic conditions and changes in foreign currency exchange rates. Additional factors that could cause actual results to differ materially from those contemplated within this press release can also be found in Amedica's Risk Factors disclosure in its Annual Report on Form 10-K, filed with the Securities and Exchange Commission (SEC) on March 24, 2015, and in Amedica's other filings with the SEC. Amedica disclaims any obligation to update any forward-looking statements.