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Pressure BioSciences Announces Initial Shipments of its Enabling, Next-Generation PCT System

Barocycler 2320EXTREME to Play Important Role in Major Cancer Research Study Led by an Australian Research Group Recently Named by the White House as a Collaborator in President Obama's "Cancer Moonshot" Initiative

SOUTH EASTON, Mass., July 21, 2016 /PRNewswire/ -- Pressure BioSciences, Inc. (OTCQB: PBIO) ("PBI" or the "Company") today announced the initial shipments of its recently released, next-generation pressure cycling technology ("PCT")-based instrument, the Barocycler 2320EXTREME (the "2320EXT"). Five instruments were recently purchased and delivered: one to an Ivy-league school with a rich history in life sciences research, one to the Company's exclusive distributor in China, and the remaining three to the Children's Medical Research Institute ("CMRI") near Sydney Australia. The instruments purchased by CMRI will be used in cancer research studies by the newly established Australian Cancer Research Foundation International Centre for the Proteome of Cancer ("ProCan"), located in the CMRI facility. A short video discussing the initial shipments of the Barocycler 2320EXT can be found here: https://youtu.be/xbO6Lp4VxwU.

ProCan has announced plans to analyze approximately 70,000 cancer tumor samples over the next seven years with state-of-the-art protein profiling instruments and other tools. Data from their studies are expected to enable discoveries around the causes of cancer, provide guidance on cancer treatment options, and generate standard operating procedures that can be used in cancer testing laboratories worldwide.

In their studies, ProCan will combine PBI's new Barocycler 2320EXT system for sample preparation with SCIEX's SWATH data independent-acquisition mass spectrometry workflow on Triple TOF® 6600 Systems. SCIEX is a global leader in life science analytical technologies. In January 2016, PBI and SCIEX announced an exclusive, two-year, worldwide co-marketing agreement under which PBI and SCIEX will co-promote PBI's PCT systems with SCIEX's SWATH-based proteomics workflows.

In his 2016 State-of-the-Union message, President Barack Obama introduced the $1B 'Cancer Moonshot' initiative, with a goal to accelerate research in cancer, to break down existing barriers that stymie progress, and to support other changes that will improve the ability to prevent, detect, treat, and cure cancer. Vice-President Biden was asked to lead this effort. On July 16th, the White House named ProCan as one of four preeminent cancer centers in Australia chosen to collaborate with the U.S. National Cancer Institute in the "Cancer Moonshot" initiative.

Professor Phil Robinson, co-head of ProCan, said: "The unique industrial proteomics platform we are developing will unlock the potential of our discoveries and empower us to perform the translational research needed to rapidly identify the cause of each individual cancer, advancing scientific discovery and allowing a more accurate prediction of the best cancer treatments for individual patients."

Prof. Robinson continued: "Patient tumor samples can be pretty tiny and very heterogeneous, but the use of PCT in sample preparation allows researchers to analyze tissue samples as small as those provided by needle biopsies. So you can use incredibly small amounts of tissue, reliably digest them in a couple of hours, and get large amounts of information."

A key component to the study's success will be the maximization of the breadth of biomolecular analytes revealed and measured, and the quality and reproducibility of the results generated using the tools chosen by ProCan for both the sample preparation and analytical portions of the study. When asked to comment on the importance of sample preparation quality, Dr. Isabelle M. Gorrillot, Managing Director of Areon Biosciences – a premier life sciences innovation catalyst - who has personally assessed thousands of drug candidates for licensing, said: "PBI's PCT platform may substantially improve research data reliability and efficacy expectations of drug candidates, and in turn significantly mitigate investment risk in their development. By revealing, releasing, and preserving molecular structures that are otherwise likely compromised through current, aggressive mechanical and biochemical treatment of cells in tissue samples, PBI's PCT platform may significantly increase the speed of targeting and accuracy of drug design and subsequent potency and efficacy data."

Dr. Gorrillot continued: "Another aspect of investment risk relates to reproducibility. PBI's biophysical approach to biological sample preparation provides a tighter level of control that favors enhanced reproducibility. Having assessed thousands of drug candidates, these two aspects of investment risk are central to the go/no go decision."

About Pressure BioSciences, Inc.
Pressure BioSciences, Inc. ("PBI") (OTCQB: PBIO) develops, markets, and sells proprietary laboratory instrumentation and associated consumables to the estimated $6 billion life sciences sample preparation market. Our products are based on the unique properties of both constant (i.e., static) and alternating (i.e., pressure cycling technology, or PCT) hydrostatic pressure. PCT is a patented enabling technology platform that uses alternating cycles of hydrostatic pressure between ambient and ultra-high levels to safely and reproducibly control bio-molecular interactions. To date, we have installed over 275 PCT systems in approximately 160 sites worldwide. There are over 100 publications citing the advantages of the PCT platform over competitive methods, many from key opinion leaders. Our primary application development and sales efforts are in the biomarker discovery and forensics areas. Customers also use our products in other areas, such as drug discovery & design, bio-therapeutics characterization, soil & plant biology, vaccine development, histology, and counter-bioterror applications.

Forward Looking Statements
Statements contained in this press release regarding PBI's intentions, hopes, beliefs, expectations, or predictions of the future are "forward-looking" statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are

based upon the Company's current expectations, forecasts, and assumptions that are subject to risks, uncertainties, and other factors that could cause actual outcomes and results to differ materially from those indicated by these forward-looking statements. These risks, uncertainties, and other factors include, but are not limited to, the risks and uncertainties discussed under the heading "Risk Factors" in the Company's Annual Report on Form 10-K for the year ended December 31, 2015, and other reports filed by the Company from time to time with the SEC. The Company undertakes no obligation to update any of the information included in this release, except as otherwise required by law.

For more information about PBI and this press release, please click on the following website link:
http://www.pressurebiosciences.com
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