

August 30, 2018



# Pressure BioSciences Awarded Key U.S. Patent for Novel High-Pressure Flow-Through Microfluidic Sample Preparation Device

***Invention Opens Path for Integration of Automated "Hands-Free" Sample Prep Workflows Utilizing Company's Patented High-Pressure Platform Technologies***

**SOUTH EASTON, MA / ACCESSWIRE / August 30, 2018** /Pressure BioSciences, Inc. (OTCQB: PBIO) ("PBI" or the "Company"), a leader in the development and sale of broadly enabling, pressure-based instruments, consumables, and platform solutions to the worldwide life sciences industry, today announced the award of a key new U.S. patent, entitled "Flow-through High Hydrostatic Pressure Microfluidic Sample Preparation Device and Related Methods Therefor." This new patent (US 9995661) brings the Company's Intellectual Property ("IP") estate up to a total of 21 issued patents.

Dr. Alexander Lazarev, PBI's Vice President of Research and Development, said: "This long-anticipated patent is a very important development for the Company on multiple fronts, and the timing of its issuance could not be better. This invention covers key elements of our plans for developing automated, "hands-free" sample handling for the next generation of our high-pressure sample preparation platform technologies. This invention also enables a unique capability for maintaining high pressure in a flow-through format (rather than current batch processing), which we expect will facilitate the development of new, automated continuous process monitoring tools applicable to diverse segments of the life sciences industry. Finally, we believe this novel flow-through concept offers critical enablement for future system design strategies for epitope characterization, an emerging area in development and production of biotherapeutics that could revolutionize personalized therapy for numerous medical conditions, including autoimmune diseases and a variety of rare medical disorders."

Mr. Richard T. Schumacher, President and CEO of PBI, added: "We believe that the hands-free, automated workflow enabled by this invention will allow for the development of valuable enhancements in efficiencies, throughput and contamination avoidance for our instrument and consumable product lines. We also believe this invention will accelerate our expansion into larger scale applications and users in multiple major business segments for the Company. Growth in these additional areas should further cement and expand market acceptance and recognition for PBI's innovative and enabling pressure-based platform technologies and spur concomitant growth in revenue and shareholder value."

## **About Pressure BioSciences, Inc.**

Pressure BioSciences, Inc. (OTCQB: PBIO) is a leader in the development and sale of

innovative, broadly enabling, pressure-based solutions for the worldwide life sciences industry. 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 (e.g., cell lysis, biomolecule extraction). Our primary focus is in the development of PCT-based products for biomarker and target discovery, drug design and development, biotherapeutics characterization and quality control, soil & plant biology, forensics, and counter-bioterror applications. Additionally, major new market opportunities have emerged in the use of our pressure-based technologies in the following areas: (1) the use of our recently acquired PreEMT technology from BaroFold, Inc. to allow entry into the biologics contract research services sector, and (2) the use of our recently-patented, scalable, high-efficiency, pressure-based Ultra Shear Technology ("UST") platform to (i) create stable nanoemulsions of otherwise immiscible fluids (e.g., oils and water) and to (ii) prepare higher quality, homogenized, extended shelf-life or room temperature stable low-acid liquid foods that cannot be effectively preserved using existing non-thermal technologies.

## **Forward Looking Statements**

This press release contains forward-looking statements. These statements relate to future events or our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our or our industry's actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed, implied or inferred by these forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "may," "will," "should," "could," "would," "expects," "plans," "intends," "anticipates," "believes," estimates," "predicts," "projects," "potential" or "continue" or the negative of such terms and other comparable terminology. These statements are only predictions based on our current expectations and projections about future events. You should not place undue reliance on these statements. In evaluating these statements, you should specifically consider various factors. Actual events or results may differ materially. These and other factors may cause our actual results to differ materially from any forward-looking statement. 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, 2017, 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>

Please visit us on Facebook, LinkedIn, and Twitter.

## **Investor Contacts:**

Richard T. Schumacher, President and CEO (508) 230-1828 (T)  
Alexander Lazarev, Ph.D., VP of R&D (508) 230-1829 (F)

**SOURCE:** Pressure BioSciences, Inc.