

Pressure BioSciences, Inc. In The News
PBI Announces Key Collaborations

PBI In The News

Pressure BioSciences, Inc. and the J. Craig Venter Institute Announce Collaboration Agreement & Purchase of a PCT System

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PBI In The News

Pressure BioSciences, Inc. and Omni International Announce Marketing, Distribution, and Technology Development Agreement

Pressure BioSciences, Inc. and Omni International today announced that they have entered into a strategic marketing, distribution, and technology co-development Agreement. Under the terms of the Agreement, the companies will: (1) share market data, customer leads, technology assessments, and competitive information; (2) co-promote certain products at industry trade shows beginning in 2009; (3) license Omni to sell PBI's recently released, patent-pending PCT Shredder to laboratories worldwide; and (4) co-develop new instrumentation and consumables that combine the homogenization capabilities of Omni with the extraction capabilities of PBI, in an effort to provide research scientists with a targeted approach to better solve certain sample preparation issues.

Mr. Karl Jahn, President of Omni, said: "PBI is the leading company in the world in providing laboratory scale, ultra-high pressure cycling instrumentation for biomolecule extraction. Omni has been one of the world's leading suppliers of laboratory scale homogenizers for decades. Our two companies' technologies are extremely complementary and synergistic. To that end, we believe that combining the advantages of both technologies could offer the customer a range of solutions to ensure efficient extraction for many sample types, particularly those that continue to pose challenges in sample preparation. We are therefore pleased to have PBI, with its wealth of experience, novel technology, and IP, as a strategic business partner, and we look forward to working with them in developing an entirely new concept in solution-based products for the large sample preparation market."

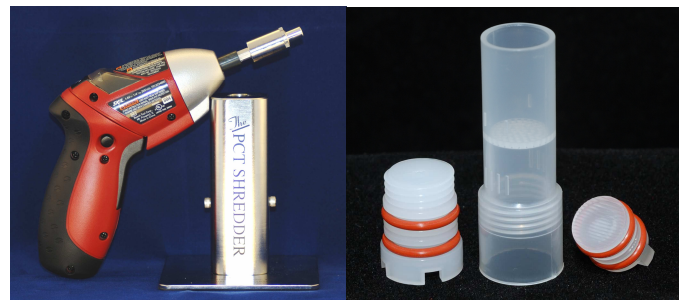
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Purchase

The PCT Shredder Kit™

**The latest Innovation in
Sample Preparation Pre-processing**

**Purchase before December 31, 2008
At the Introductory price of \$695
A 30% Discount**



- The PCT Shredder uses gentle mechanical homogenization for tough, fibrous and other difficult-to-disrupt samples
 - ✓ fibrous muscle tissue
 - ✓ plant cell walls
 - ✓ insect exoskeletons
 - ✓ cuticle of nematodes
- Extract high yields of quality nucleic acids, proteins, lipids, and small molecules
- Use in combination with Pressure Cycling Technology (PCT) for enhanced extraction
- May be used as a stand-alone homogenization system to replace bead beating, sonication, and other traditional methods for some samples
- Uses a similar PULSE Tube design as the PCT Sample Preparation System
- Single-use container – no sample transfer required
- Use less aggressive chemistry

For information regarding purchase and applications for
The PCT Shredder
please contact Pressure BioSciences at
info@pressurebiosciences.com or call 508-230-1828

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Mr. Jahn continued: "We also look forward to marketing and selling the PCT Shredder in early 2009. This novel, patent-pending device uses a unique approach to extract high yields of nucleic acids, proteins, lipids, and small molecules from tough, fibrous, and other difficult-to-disrupt samples, such as muscle, skin, plant cell walls, and insects, and with minimal damage to fragile molecules. We believe this product fills an existing customer need, and that utilizing our very effective worldwide distribution network, we can be highly successful in placing this product within our existing customer base. And since the PCT Shredder uses a similar processing container (PULSE Tube(C)) as used in PBI's PCT Sample Preparation System, successful placement of the PCT Shredder can lead not only to revenue for both companies, but also to increased visibility of PBI's PCT Sample Preparation System."

Mr. Jahn concluded: "PBI has publicly disclosed that they are actively seeking to raise additional capital through equity financing under terms consistent with shareholder approval obtained on September 25, 2008. We will be participating in this financing, as we believe that the technology is sound, the market is large, the future is very bright, and because we want to be an integral part of the new, refocused PBI."

PCT Shredder PrEP Improved DNA Recovery from Spinach Leaves Using The PCT Shredder™ and Pressure Cycling Technology (PCT)

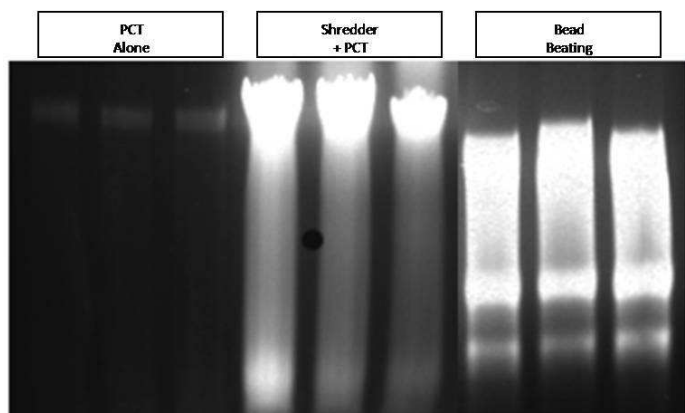


Figure 1. DNA Visualization by Agarose Gel Electrophoresis.
Lanes 1-3: PCT Alone at 35 kpsi; Lanes 4-6: PCT Shredder + PCT at 35,000 psi; Lanes 7-9: Bead Beating, ten 10 second bursts at full power.

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Pressure BioSciences, Inc. and the J. Craig Venter Institute Announce Collaboration Agreement & Purchase of a PCT System

A Global Biopharmaceutical Company Purchases Two PCT Systems to Help in the Analysis of Therapeutic Proteins

Pressure BioSciences, Inc.(PBI) ("PBI") today announced that they have entered into a collaboration with the J. Craig Venter Institute ("JCVI"), a not for profit genomic research institute, with facilities in Rockville, MD and La Jolla, CA. As part of the collaboration, the JCVI has purchased a Barocycler NEP2320 PCT Sample Preparation System ("PCT System"). The Company also announced that it has sold two Barocycler NEP3229 PCT Sample Preparation Systems to a leading global biopharmaceutical company. The PCT Systems were installed at two of the customer's locations during the week of December 8, 2008.

JCVI Collaboration

JCVI will be using PBI's pressure cycling technology (PCT) and sample preparation platform as part of the collaboration. To that end, JCVI has purchased a Barocycler NEP2320 PCT Sample Preparation System, and intends to further develop PCT into JCVI's extraction protocols. In addition to this purchase, PBI will provide JCVI with two additional instruments for further studies as part of the collaboration. Among the projects for which PBI's technology will be used is JCVI's National Institutes of Health ("NIH")-funded human microbiome project, where JCVI scientists are discovering and cataloging the microbes that live on and in the human body.

According to Scott Peterson, Ph.D., Director of Functional Genomics Research and Technology at JCVI: "PBI's PCT technology is an exciting tool for extracting nucleic acids and proteins from challenging biological samples like those associated with our human microbiome project. The PCT System has the unique ability to extract higher molecular weight DNA for further sequence analysis of the organisms we work with here at JCVI. It is always satisfying when a simple solution presents itself to address a complex problem. PBI's PCT technology represents one of those solutions."

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Mr. Richard T. Schumacher, President, and CEO of PBI commented: "Omni has an extensive homogenization product line (including high throughput automated equipment) that has been recognized for years for its quality and dependability. They continually develop new and improved homogenization products to satisfy changing customer needs. They have also been very successful in marketing and distributing their products through effective distribution channels in every major market in the world. We are very pleased to have the opportunity to work with Karl and his team to aggressively distribute the PCT Shredder worldwide, and also to co-develop a new concept in laboratory-scale sample preparation that combines the advantages of both homogenization and PCT extraction."

About Omni International

Since 1956, with the introduction of the Omni Mixer, the name Omni has been synonymous with homogenization. It's Omni's only business, only focus, and core competence. Omni has a seasoned and knowledgeable staff whose only job is to ensure that their customer's homogenizing needs are met with total satisfaction. Omni offers a broad range of homogenizing products - including mechanical shear, ultrasonic, mortar and pestle, and bead mills - in order to provide customers with the optimal solution to any homogenizing problem.

Barocyler NEP 2320



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Pressure BioSciences, Inc. and the J. Craig Venter Institute Announce Collaboration Agreement & Purchase of a PCT System

Mr. Matthew Potter, Vice President of Sales for Pressure BioSciences, Inc., said, "We are excited that the J. Craig Venter Institute, with their purchase of a PCT System, has recognized the potential of PCT to improve the extraction of proteins and nucleic acids from biological samples, a key step in laboratory research. We are also pleased to have the opportunity to collaborate with the JCVI in their microbiome project. The NIH has recently initiated the Human Microbiome Project with the mission to comprehensively characterize microbes that live on and in the human body, and to analyze their role in human health and disease. This is a very important NIH-funded project, and we are pleased that PCT will play a role in the program."

Sale of Two PCT Systems to a Global Biopharmaceutical Company

Recent data presented by independent scientists at the FACSS (Federation of Analytical Chemistry and Spectroscopy Societies) annual meeting held September 29-October 2, 2008 demonstrated that pressure cycling technology (PCT) provided the most efficient method available for digesting protein therapeutics without introducing protein modifications. A leading global biopharmaceutical company, a current customer of PBI, has now purchased two PCT Sample Preparation Systems to continue studies as part of their process development, including improved throughput, product characterization, and method development applications. Additionally, this global biopharmaceutical company is undertaking a multi-functional, cross-site initiative to evaluate other applications of PCT as a potential platform technology.

Mr. Richard T. Schumacher, President and CEO of Pressure BioSciences, Inc., commented: "We are very pleased that this large, global biopharmaceutical company has purchased two PCT Systems for accelerated and accurate digestion of therapeutic proteins, one of PBI's major product initiatives. We believe that this application may lead to better quality control in the manufacturing of therapeutic proteins. As such, we will continue to work with customers and collaborators to help drive the adoption of PCT as a method of choice to aid in the analysis of proteins for therapeutics. Ultimately, we believe that these and other studies will lead to additional PCT System sales to companies manufacturing protein-based therapeutics, and to multiple sales within the same organization."