OncoCyte Announces Initial Data From Ongoing Clinical Study of Collagen Type X as a Marker and Potential Diagnostic for Breast Cancer and Other Types of Human Cancers

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Data Presented at American Association for Cancer Research 2015 Annual Meeting

ALAMEDA, Calif.–(BUSINESS WIRE)–Apr. 20, 2015– BioTime, Inc. (NYSE MKT:BTX) and its subsidiary OncoCyte Corporationtoday announced initial data from a large, prospective clinical study that showed the potential of *PanC-Dx™*, OncoCyte's non-invasive diagnostic technology based on its proprietary set of cancer markers, as a non-invasive, blood-based diagnostic test to screen for multiple types of human cancers, including breast cancer. The early data showed the utility of the protein Collagen Type X (COL10A1) in distinguishing patients with malignant breast lesions from those with negative findings. The clinical data was presented by Maria Prendes, PhD, Director of Manufacturing at OncoCyte, at the American Association for Cancer Research (AACR) Annual Meeting during a poster presentation from 8:00 AM -12:00 PM EDT onMonday, April 20, 2015.

The controlled study, initiated at Scottsdale Medical Imaging Laboratories in Scottsdale, AZ, is ongoing and has nearly completed enrollment of over 600 patients. The goal of this study is to assess the performance of *PanC-Dx™* in discriminating patients with malignant breast lesions from those with negative findings or benign findings. Study investigators are collecting blood samples from patients undergoing screening or diagnostic mammography. Patient blood samples are being assessed for levels of OncoCyte's *PanC-Dx*™ markers, including the concentration of the protein COL10A1, using proprietary assays and the results are compared to radiological and pathology findings. Expression of the gene *COL10A1* at an mRNA level has been shown in past studies to be significantly elevated in multiple and diverse malignant tumor types including cancers of the breast, stomach, colon, lung, bladder, pancreas, and ovaries. In addition, the protein was shown to be specifically localized within tumor vasculature.

Early data showed that *PanC-Dx*™ identified a mean concentration of COL10A1 protein in sera of breast cancer patients (n=33) that was 35% higher than the mean COL10A1 value in sera of normal individuals (n=32). No significant differences were noted when comparing breast cancer patients to patients with confirmed benign disease suggesting that additional biomarkers may be necessary to discriminate these two populations. Based on this data, *PanC-Dx*™ offered improved performance as compared to the commercially available enzyme-linked immunosorbent assay (ELISA) manufactured with polyclonal antibodies that study investigators previously used in analyzing over 400 serum samples from healthy volunteers and cancer patients. Evaluation of the performance of *PanC-Dx*™ demonstrated 86% area-under-the-curve (AUC) of the Receiver Operating Characteristic (ROC) curve, which determines the level of specificity and sensitivity of the product. The polyclonal ELISA demonstrated 74% AUC of the ROC curve.

“These early data suggest the potential of *PanC-Dx*™ and COL10A1 protein as a blood-based diagnostic and biomarker that could prove useful in non-invasive, early detection of a wide variety of cancers, including breast cancer,” said Joseph Wagner, PhD, OncoCyte’s Chief Executive Officer. “We are excited by the opportunity of developing *PanC-Dx*™ as a simple, radiation-free alternative for breast cancer detection for millions of women whose dense breast tissue makes their mammograms less accurate. Study investigators are testing other markers in the same patient samples that could increase accuracy for breast cancer detection. In addition, we are encouraged by the potential for *PanC-Dx™* to detect COL10A1 protein levels with greater sensitivity and specificity than current commercially available assays.”

In 2010 over 30 million screening mammograms were performed in the U.S. alone. The American Cancer Society and the National Comprehensive Cancer Network both recommend screening mammography every year starting at age 40, which has been associated with relative reduction in breast cancer mortality of 15% to 20%. However, the NCI estimates that approximately 20% of all breast cancers are not detected by mammography during annual screening, which indicates that there is an unmet need for a breast-cancer screening test with superior specificity and sensitivity when compared to standard screening mammography.

About OncoCyte Corporation

OncoCyte, a majority-owned subsidiary of BioTime, Inc., is developing novel products for the diagnosis and treatment of cancer in order to improve the quality and length of life of cancer patients. Based on large unmet need, market size, and data generated thus far from patient sample screening, OncoCyte is initially focusing its efforts on developing *PanC-Dx*™ diagnostic products for use in detecting breast, bladder, and lung cancers. *PanC-Dx*™ is a class of non-invasive cancer diagnostics based on a proprietary set of cancer markers characterized, in part, by broad gene expression patterns in numerous cancer types The *PanC-Dx*™ biomarkers were discovered as a result of ongoing research within OncoCyte andBioTime on the gene expression patterns associated with embryonic development. This research has demonstrated that many of the same genes associated with normal growth during embryonic development are abnormally reactivated by cancer cells. These genes regulate such diverse processes as cell proliferation, cell migration and blood vessel formation. Many of these genes have not been previously associated with cancer. Moreover, expression of a large subset of these genes is conserved across numerous cancer types (e.g. cancers of the breast, colon, ovaries, etc.), suggesting these genes may control fundamental processes during cancer growth and progression. In addition to their potential value in developing diagnostic biomarkers, an understanding of the pattern of expression of these genes may also enable the development of powerful new cancer therapeutics that target rapidly proliferating cancer cells.

About BioTime

BioTime, Inc., a pioneer in regenerative medicine, is a clinical-stage biotechnology company. BioTime and its subsidiaries are leveraging their industry-leading experience in pluripotent stem cell technology and a broad intellectual property portfolio to facilitate the development and use of cell-based therapies and gene marker-based molecular diagnostics for major diseases and degenerative conditions for which there presently are no cures. The lead clinical programs of BioTimeand its subsidiaries include: *OpRegen*®, currently in a Phase I/IIa trial for the treatment of the dry form of age-related macular degeneration; *AST-OPC1*, currently in a Phase I/IIa trial for spinal cord injuries; *Renevia*™, currently in a pivotal trial in Europe as an injectable matrix for the engraftment of transplanted cells to treat HIV-related lipoatrophy; and *PanC-Dx*™ cancer diagnostics, which are completing initial clinical studies for bladder, breast, and lung cancer. *AST-VAC2*, a cancer vaccine, is in the pre-clinical trial stage.

BioTime's subsidiaries include: publicly-traded Asterias Biotherapeutics, Inc. (NYSE MKT: AST), developing pluripotent stem cell-based therapies in neurology and oncology, including *AST-OPC1* and *AST-VAC2*; Cell Cure Neurosciences Ltd., developing stem cell-based therapies for retinal and neurological disorders, including *OpRegen®*; OncoCyte Corporation, developing *PanC-Dx*™ cancer diagnostics; LifeMap Sciences, Inc., developing and marketing an integrated on-line database resource for biomedical and stem cell research; LifeMap Solutions, Inc., a subsidiary of LifeMap Sciences, developing mobile health (mHealth) products; ES Cell International Pte Ltd, which has developed cGMP compliant human embryonic stem cell lines that are being marketed by BioTime for research purposes under the ESI BIO branding program; OrthoCyte Corporation, developing therapies to treat orthopedic disorders, diseases and injuries; and ReCyte Therapeutics, Inc., developing therapies to treat a variety of cardiovascular and related ischemic disorders.

BioTime common stock is traded on the NYSE MKT under the symbol BTX. For more information, please visit*www.biotimeinc.com* or connect with the company on Twitter, LinkedIn, Facebook, YouTube, and Google+.

FORWARD-LOOKING STATEMENTS

Statements pertaining to future financial and/or operating results, future growth in research, technology, clinical development, and potential opportunities for BioTime and its subsidiaries, along with other statements about the future expectations, beliefs, goals, plans, or prospects expressed by management constitute forward-looking statements. Any statements that are not historical fact (including, but not limited to statements that contain words such as "will," "believes," "plans," "anticipates," "expects," "estimates") should also be considered to be forward-looking statements. Forward-looking statements involve risks and uncertainties, including, without limitation, risks inherent in the development and/or commercialization of potential products, uncertainty in the results of clinical trials or regulatory approvals, need and ability to obtain future capital, and maintenance of intellectual property rights. Actual results may differ materially from the results anticipated in these forward-looking statements and as such should be evaluated together with the many uncertainties that affect the business of BioTime and its subsidiaries, particularly those mentioned in the cautionary statements found in BioTime's Securities and Exchange Commission filings. BioTimedisclaims any intent or obligation to update these forward-looking statements.

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