Tumor-Targeted Nanoparticle-based Gene Delivery Provides Evidence of Therapeutic Vaccination in Patients with Metastatic Cancer (ASCO 2010)

SAN MARINO, Calif., May 24 (SEND2PRESS NEWSWIRE) — Epeius Biotechnologies Corporation (www.epeiusbiotech.com) today announces the clinical results of the study entitled “A Phase I/II Study of Intravenous Rexin-G and Reximmune-C for Cancer Immunotherapy: The GeneVieve Protocol” at the ASCO Annual Meeting on June 6, 2010. The presentation will be made by Dr. Jorge G. Ignacio, Chairman of the Cancer Institute and Bioethics Committee-Philippine General Hospital, and Principal Investigator of the study.

SUMMARY: Rexin-G and Reximmune-C are tumor-targeted retrovectors bearing a cytocidal anti-cyclin G1 construct and a controllable GM-CSF expression construct, respectively. The working hypothesis underlying this two-tier complementary approach to tumor eradication and cancer vaccination is that a personalized vaccination of a patient against his or her own specific cancer can be achieved by combining (1) a targeted vector bearing a tumoricidal payload, i.e. Rexin-G, with (2) a targeted vector bearing a potent immuno-stimulatory (GM-CSF) gene, i.e. Reximmune-C. In this model, Rexin-G is first administered to control tumor growth and expose neoantigens within the tumor microenvironment, followed by defined pulses of Reximmune-C, intended to recruit the patient’s immune cells into these lesions, thereby prompting immunologic activation, recognition of tumor neoantigens, and induction of a beneficial antitumor immunity. The initial results of a Phase I/II dose escalation study showed that, in addition to the expected tumoricidal effects of Rexin-G, histopathologic examination of biopsied tumors from patients with a diversity of cancer types revealed targeted nanoparticle delivery, GM-CSF transgene expression, and localized immune responses within the lesions. Importantly, no circulating GM-CSF protein was detected and no dose limiting toxicity was observed throughout the treatment period. Moreover, there appears to be a significant survival benefit which suggests that this two-tier approach has considerable merit as a therapeutic vaccine.

About Epeius Biotechnologies:
Epeius Biotechnologies Corporation is a privately held biopharmaceutical company dedicated to the advancement of genetic medicine with the development and commercialization of its lead products, Rexin-G and Reximmune-C, and its high-performance gene delivery systems. To learn more about these agents and/or ongoing clinical trials, please contact Dr. Erlinda M. Gordon at egordon@epeiusbiotech.com.

News issued by: Epeius Biotechnologies Corporation
Original Story ID: (5954) :: 2010-05-0524-001

Original Keywords: Epeius Biotechnologies Corporation, A Phase I/II Study of Intravenous Rexin-G and Reximmune-C for Cancer Immunotherapy, The GeneVieve Protocol, ASCO Annual Meeting, privately held biopharmaceutical company dedicated to the advancement of genetic medicine, Dr Jorge G Ignacio Epeius Biotechnologies Corporation San Marino California SAN MARINO, Calif.

Alternate Headline: Epeius Tumor-Targeted Nanoparticle-based Gene Delivery Provides Evidence of Therapeutic Vaccination in Patients with Metastatic Cancer

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