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# ETUBICS' ADENOVIRUS VECTOR VACCINE PLATFORM FOR BREAST CANCER INHIBITS TUMOR PROGRESSION IN PRECLINICAL TRIAL

SEATTLE (April 29, 2011) – The May issue of the prestigious *Cancer Gene Therapy*, part of Nature Publishing Group, will include a paper on Etubics' proprietary Adenovirus Vector Vaccine Platform (AVVP) technology, entitled "An Ad5[E1-, E2b-]-HER2/neu vector induces immune responses and inhibits HER2/neu expressing tumor progression in Ad5 immune mice."

The immunotherapy platform is currently in Phase I/II clinical trials for a colorectal cancer therapy and this paper explores the pre-clinical studies of the effectiveness of Etubics' platform as a treatment for breast cancer. A major obstacle to Ad5 vector immunotherapy has been the presence of pre-existing Ad5 immunity, which inhibits the vector delivery system. Patients without immunity to Ad5 quickly develop immunity to Ad5 after receiving an Ad5 vaccine, thus rendering additional vaccinations with an Ad5 vaccine useless. Pre-clinical studies show that Etubics' breast cancer therapeutic, Ad5[E1-, E2b-]-HER2/neu, can overcome this immunity issue and induce not only the traditional antibody response but also a potent cell mediated immunity (CMI) against breast cancer, or HER2/neu, in both Ad5 naïve and Ad5 immune animals.

In addition, Etubics also reports that its Ad5 [E1-, E2b-]-HER2/neu prevented establishment of HER2/neu-expressing tumors and significantly inhibited progression of established tumors in Ad5 naïve and Ad5 immune mice models. The data also demonstrates that in vivo delivery of Ad5 [E1-, E2b-]-HER2/neu can induce anti-tumor associated antigen (TAA) immunity and inhibit progression of HER2/neu expressing cancers.

Dr. Frank R. Jones, founder, Chairman and Chief Executive Officer of Etubics and senior author on the report stated "It's been known for quite some time that cell mediated immunity can be quite beneficial for cancer therapies and we are quite excited by the data that we presented in our *Cancer Gene Therapy* paper as it shows that our immunotherapy platform can finally overcome the barrier of Ad immunity so we can deliver a robust cell mediate and antibody immune response."

To view the paper online, visit [Cancer Gene Therapy](#). Etubics pre-clinical HER2/neu studies have been funded entirely through grants from the National Cancer Institute (NCI).

Etubics is developing the next generation in vaccines, utilizing a patented advanced generation adenovirus vector delivery platform and a validated manufacturing human cell line, called E.C7. Etubics intends to develop vector vaccines for a variety of indications utilizing its platform technology, which has attributes that allow for broad transgene expression. Etubics is currently in Phase IIa clinical trials in the United States utilizing its first vaccine candidate for the treatment of end stage colon cancer.

## **About Etubics**

Etubics Corporation is a Seattle based biopharmaceutical company with technology that enables the rapid, cost-effective development and commercialization of therapeutic and preventative vaccines targeting hard to treat diseases. Etubics is currently in clinical trials with a colon cancer therapeutic vaccine. Led by an experienced scientific and management team, Etubics' patented platform leverages the advantages of vector technology, while overcoming historical safety and re-immunization issues of

earlier platforms. Etubics was established by Dr. Frank R. Jones and is currently engaged in research and development of its proprietary and novel adenovirus vector vaccine candidates. [www.etubics.com](http://www.etubics.com).

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