



Nanobiotix and Thomas Jefferson University Start Research Collaboration

Nanomedicine and Medical Education leaders are joining their forces in the United States to accelerate the development of NanoXray

Paris, France and Philadelphia, USA – May 2 2012 - Nanobiotix, a company developing novel cancer nanotherapeutics and Thomas Jefferson University, one of Philadelphia's premier medical and health sciences universities, today announced that they have entered into a research collaboration to accelerate the development of Nanobiotix' lead compound NBTXR3 in the US.

Under the terms of the collaboration agreement, Nanobiotix will fund a 2-year preclinical research program, which will be directed by Bo Lu, MD, Professor in the Department of Radiation Oncology at Jefferson and Director of the department's Division of Molecular Radiation Biology. The goal of the program is to study the therapeutic efficacy of NBTXR3, the lead product of Nanobiotix' NanoXray pipeline.

NBTXR3, a nanoparticle consisting of hafnium oxide crystals, aims to enhance the local destruction of the tumor mass during radiotherapy. It accumulates in the cancer cells and, upon radiation, emits huge amounts of electrons leading to the formation of free radicals. These, in turn, damage the cancer cells and cause their targeted destruction. As a result, the destructive power of standard radiation therapy is locally and selectively enhanced within the tumor cells.

"For the treatment of cancer, it is important to develop ways that cause tumor cells to be more sensitive to radiation therapy," said Dr. Bo Lu. *"We therefore are very interested in approaches that have the potential to amplify the power of the radiation dose inside the tumor without damaging the surrounding healthy cells."*

"The collaboration is an important strategic step to develop our products," said Laurent Levy, PhD, CEO and co-founder of Nanobiotix. *"Jefferson is a leader in the field of radiation oncology and Bo Lu is internationally renowned for his work in clinical and translational radiation oncology. Therefore, we are very much looking forward to the results of this collaboration, which will also help us expand our network and visibility in the United States."*

NBTXR3 has been classified in the EU as class III medical device and is currently being tested in a European Phase I trial to establish feasibility and safety of NBTXR3 in patients with soft tissue sarcoma. Preliminary data are expected by the end of 2012. Further clinical trials are in preparation in Europe and in the US, where NBTXR3 is classified as a drug.

ABOUT NANOXRAY

Radiotherapy is used to treat about 50 to 60% of all cancer patients. It is known to be an effective treatment, but its efficacy is counteracted by the side effects in healthy tissue as the radiotherapy beam always needs to cross healthy tissue to reach the tumor. Radiotherapy therefore has a relatively narrow therapeutic window with a considerable need for improvement. Nanobiotix is developing a new class of therapeutics based on nanoparticles called [NanoXray](#) therapeutics. They consist of inert nanoparticles designed to enter tumor cells. Upon activation by a standard dose of radiation, NanoXray therapeutics releases a tremendous amount of electrons, leading to the formation of radicals that destroy the cancer cells. As shown in preclinical experiments, this release should be restricted to the tumor as the particles are delivered selectively to the tumor site. The surrounding healthy tissue should thus not be affected and receive the normal radiation dose as in standard radiotherapy. Nanobiotix' goal is to significantly enhance the efficacy of radiotherapy within the tumor and to improve the clinical outcome of local treatment.

ABOUT NANOBIOTIX – www.nanobiotix.com

Nanobiotix is a Paris, France, based nanomedicine company dedicated to the development of new cancer treatments. The company combines the advantages of nanotechnology and biotechnology. Nanobiotix is a spin-off of the State University of New York at Buffalo and was incorporated in 2003. It is funded by leading European venture capital firms (Matignon Technologies, OTC Asset Management, Cap Decisif, Amorcage Rhone-Alpes, CM-CIC Capital Innovation and Masseran Gestion – CGE). With the development of several new compounds, Nanobiotix's objective is to enhance its leading position in the nanomedicine field.

ABOUT THOMAS JEFFERSON UNIVERSITY - www.jefferson.edu

Thomas Jefferson University (TJU), the largest free standing academic medical center in Philadelphia, is nationally renowned for medical and health sciences education and innovative research. Founded in 1824, TJU includes Jefferson Medical College (JMC), one of the largest private medical schools in the country and ranked among the nation's best medical schools by **U.S. News & World Report**, and the Jefferson Schools of Nursing, Pharmacy, Health Professions, Population Health and the College of Graduate Studies. Jefferson University Physicians is TJU's multi-specialty physician practice consisting of the full-time faculty of JMC. Thomas Jefferson University partners with its clinical affiliate, Thomas Jefferson University Hospitals, Inc.

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