Combination of first-in-class NBTXR3, radiotherapy, and anti-PD-1 immunotherapy demonstrate efficacy in treating resistant pre-clinical in vivo models of lung cancer

Data presented at AACR Annual Meeting 2019

- *In vivo* study conducted alone or in collaboration with The University of Texas MD Anderson Cancer Center demonstrated:
  - NBTXR3 in combination with a PD-1 inhibitor enhanced an abscopal effect in both sensitive and PD-1-inhibitor-resistant lung cancer models
  - NBTXR3 in combination with a PD-1 inhibitor showed significant reduction of metastatic load in PD-1-inhibitor-sensitive lung cancer models
  - NBTXR3 in combination with a CTLA-4 inhibitor enhanced an abscopal effect in colorectal cancer models
- Data presented by the Weill Cornell Medical College showed that NBTXR3 mode of action induced interferon (IFN-β) expression in breast cancer cell line
- Altogether, the data presented support the ongoing clinical development plan for combinations of NBTXR3 with radiotherapy and immuno-oncology (IO) agents in multiple indications including lung- and head and neck cancers
It was observed that administration of anti-CTLA4 monotherapy demonstrated control of both treated and distant untreated tumors, potentially indicating that the CT26.WT was sensitive to a checkpoint inhibitor. The addition of radiotherapy to anti-CTLA4 only improved the tumor control modestly compared to anti-CTLA4 alone. In contrast, the combination of anti-CTLA4 + radiotherapy + NBTXR3 in this trial showed the best control of the treated and distant untreated tumors, then any single agent or doublet combination.

NBTXR3 Potentiates Cancer-Cell Intrinsic Interferon beta Response to Radiotherapy Poster #3366
Maria Esperanza Rodriguez-Ruiz, Karsten A Pilones, Camille Daviaud, Jeffrey Kraynak, Audrey Darmon, Sébastien Paris and Sandra Demaria

Data suggests that NBTXR3 enhances the effectiveness of radiation and improves tumor immunogenicity in murine breast cancer cell lines, via the induction of type-I interferon (IFN-I). In the study, NBTXR3 activated by radiotherapy amplified cancer cell intrinsic IFN-I response and showed a significant improvement in tumor control compared to radiotherapy alone with complete durable regression of tumors.

-Ends-

About NBTXR3

NBTXR3 is a first-in-class product candidate designed to destroy tumors and metastasis when activated by radiotherapy.

NBTXR3 has a high degree of biocompatibility and requires one single administration before the whole radiotherapy treatment. Nanobiotix believes NBTXR3 has the ability to fit into current worldwide standards of radiation care.

Nanobiotix’s broad clinical program includes seven clinical trials. In June 2018, Nanobiotix established human proof of concept for this first-in-class product candidate in its soft tissue sarcoma (STS) Phase III clinical trial.

NBTXR3 is actively being studied in head and neck cancer with locally advanced squamous cell carcinoma of the oral cavity or oropharynx in elderly and frail patients who are unable to receive chemotherapy or cetuximab and have very limited therapeutic options. Promising results from these clinical studies have been observed from the ongoing Phase I/II trial regarding the local control of tumors.

Nanobiotix is also running an immuno-oncology development program. In the United States, Nanobiotix has received approval from the U.S. Food and Drug Administration to launch a clinical study of NBTXR3 activated by radiotherapy in combination with anti-PD1 antibodies in lung, and head and neck cancer patients (head and neck squamous cell carcinoma and non-small cell lung cancer).

The other ongoing NBTXR3 trials are treating patients with liver cancers (hepatocellular carcinoma and liver metastasis), locally advanced or unresectable rectal cancer in combination with chemotherapy, head and neck cancer in combination with concurrent chemotherapy, and prostate adenocarcinoma.

The first market authorization process (CE Marking) for the STS indication is ongoing in Europe.

About NANOBIOXTIX:

Incorporated in 2003, Nanobiotix is a leading, clinical-stage nanomedicine company pioneering new approaches to significantly change patient outcomes by bringing nanophysics to the heart of the cell.

The Nanobiotix philosophy is rooted in designing pioneering, physical-based approaches to bring highly effective and generalized solutions to address unmet medical needs and challenges.

Nanobiotix’s first-in-class, proprietary lead technology, NBTXR3, aims to expand radiotherapy benefits for millions of cancer patients. Nanobiotix’s Immuno-Oncology program has the potential to bring a new dimension to cancer immunotherapies.

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Disclaimer

This press release contains certain forward-looking statements concerning Nanobiotix and its business. Such forward-looking statements are based on assumptions that Nanobiotix considers to be reasonable. However, there can be no assurance that the estimates contained in such forward-looking statements will be verified, which estimates are subject to numerous risks including the risks set forth in the reference document of Nanobiotix filed with the French Financial Markets Authority (Autorité des Marchés Financiers) under number D.17-0470 on April 28, 2017 as well as in its 2017 annual financial report filed with the French Financial Markets Authority on March 29, 2018 (a copy of which is available on www.nanobiotix.com) and to the development of economic conditions, financial markets and the markets in which Nanobiotix operates. The forward-looking statements contained in this press release are also subject to risks not yet known to Nanobiotix or not currently considered material by Nanobiotix. The occurrence of all or part of such risks could cause actual results, financial conditions, performance or achievements of Nanobiotix to be materially different from such forward-looking statements. This press release and the information that it contains do not constitute an offer to sell or subscribe for, or a solicitation of an offer to purchase or subscribe for, Nanobiotix shares in any country. At the moment, NBTXR3 does not bear a CE mark and the Company is not permitted to be place NBTXR3 on the market or put into service until it has obtained a CE mark.