

# ImmunityBio Presents Positive Long-Term Overall Survival Data in Non-Small Cell Lung Cancer Patients and Announces Registrational Intent Phase 3 Trials with ANKTIVA® and Checkpoint Immunotherapy at World Conference on Lung Cancer

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- Phase 2 data presented at the World Conference on Lung Cancer showing a prolonged median overall survival of over 14
  months in 2<sup>nd</sup> and 3<sup>rd</sup> line NSCLC cancer patients who progressed on checkpoint inhibitors such as KEYTRUDA
  (pembrolizumab) and OPDIVO (nivolumab)
- ANKTIVA plus KEYTRUDA or OPDIVO rescued T cell activity in these patients who progressed on the same checkpoint inhibitor with overall survival of 57% at 12 months
- Long-term survival was independent of PDL1 tumor status and independent of 2<sup>nd</sup> or 3<sup>rd</sup> line of therapy
- The data continues to validate the mechanism of action of ANKTIVA in activating NK, CD8 killer, and Memory T cells resulting in prolonged overall survival in patients with advanced cancers
- Data supports global launch of Phase 3 randomized control of ResQ trials of ANKTIVA plus KEYTRUDA or OPDIVO in 1<sup>st</sup> and 2<sup>nd</sup> line NSCLC (ResQ301 and ResQ302) versus standard of care

CULVER CITY, Calif.--(BUSINESS WIRE)--Sep. 9, 2024-- Immunotherapy innovator ImmunityBio, Inc. (NASDAQ: IBRX), today announced positive results from its QUILT 3.055 trial demonstrating long-term extended survival of 14 months to as much as five years for patients with advanced non-small cell lung cancer (NSCLC) being treated with checkpoint inhibitors (CPI). An oral presentation of the data was presented by John Wrangle, M.D., MPH, Associate Professor, Medical University of South Carolina, at the World Congress on Lung Cancer in San Diego on Sunday. September 8 in the session titled "Novel Immunotherapy Strategies and Combinations."

The phase 2b study of ANKTIVA (nogapendekin alfa inbakicept-pmln) in combination with checkpoint inhibitors KEYTRUDA or OPDIVO in multiple tumor types including NSCLC who failed CPI showed long-term overall survival of 57 percent (49/86) and 34 percent (29/86) at 12 and 18 months respectively, exceeding the current standard of care.

"Most NSCLC patients experience progression following checkpoint inhibitors, with average survival well under a year when checkpoint inhibitor-based therapies fail our patients," said Dr. Wrangle. "The QUILT-3.055 study enrolled patients relapsed after CPI and CPI in combination with chemotherapy and showed that, regardless of prior therapy, adding the IL-15-based superagonist ANKTIVA to their therapy could rescue checkpoint activity likely through activation of NK cells, CD4+, CD8+, and memory T cells. The survival rate in these patients on their 2<sup>nd</sup> or 3<sup>rd</sup> line of cancer therapy is impressive and exceeds what you might expect from the current standard of care."

## About the QUILT-3.055 Study

Non-small cell lung cancer occurs when malignant cells form in the lung's tissue and it accounts for approximately 85% of all lung cancer cases. Lung cancer is by far the leading cause of cancer death in the U.S., accounting for about 1 in 5 of all cancer deaths, according to the American Cancer Society.

The QUILT-3.055 study examined overall survival in 86 patients with 2<sup>nd</sup> and 3<sup>rd</sup> line+ NSCLC who were previously treated and failed either CPI alone or failed CPI in combination with chemotherapy. These patients had received no intervening therapy. Patients received ANKTIVA 15 mcg/kg subcutaneously every 3 weeks in combination with the same checkpoint inhibitor they previously received and on which they had progressed.

The median OS (n=86) was 14.1 months (95% CI 11.7, 17.4) with survival ranging up to 58 months. Overall survival for PDL1+ve (>1%) (N=53) was 13.8 months (95% CI 10.2, 16.2) versus PDL1-ve (N=33) of 15.8 months (95% CI 11.5, 24.0). The ANKTIVA adverse event profile was consistent with CPI alone with no cytokine release syndrome observed. Only 10% of participants had any grade  $\geq$ 3 ANKTIVA-related adverse events. The study demonstrates long-term survival at  $\geq$ 12 and  $\geq$ 18 months of 49/86 (57%) and 29/86 (34%) patients respectively.

ANKTIVA plus CPI therapy in 2<sup>nd</sup> line or greater NSCLC demonstrated long-term median OS, independent of PDL1 status, and independent of prior lines of therapy in patients with acquired resistance to CPI. These findings support the novel mechanism of action of ANKTIVA to rescue CPI activity through the activation of NK and T cells, driving long-term memory, with median overall survival of 57% and 34% at 12 and 18 months, respectively, exceeding the standard of care.

Based on the results of the QUILT 3.055 study and other trials involving ANKTIVA with checkpoint inhibitors, ImmunityBio is opening Phase 3 trials of ANKTIVA plus KEYTRUDA or OPDIVO in 1<sup>st</sup> and 2<sup>nd</sup> line NSCLC.

"The clinical trial protocol was designed such that the duration of experimental therapy with ANKTIVA plus CPI was 24 months, and thereafter no further ANKTIVA doses were administered. Despite this, the results demonstrated that 27% of the participants survived beyond the 2-year therapy period, indicating the potential benefit of ANKTIVA to activate memory T cells and prolonged therapeutic benefit after study treatment was completed," said Patrick Soon-Shiong, M.D., Executive Chairman, Founder and Global Chief Scientific and Medical Officer at ImmunityBio. "Based on this study, the ResQ studies have been activated as randomized Phase 3 trials in both 1<sup>st.</sup> and 2<sup>nd</sup> line NSCLC by combining ANKTIVA with pembrolizumab or nivolumab versus standard of care. The current results presented at World Congress on Lung Cancer confirm that by activating the body's natural

immune system and proliferating natural killer cells, killer T cells, and memory T cells, this IL-15 superagonist boosts, or rescues, the checkpoint inhibitor likely by reactivating MHC1 expression on the tumor. We are excited at the potential of converting a MHC-ve cold tumor to a MHC+ve hot tumor and evolving the field of immunotherapy beyond T cells."

## About ANKTIVA®

The cytokine interleukin-15 (IL-15) plays a crucial role in the immune system by affecting the development, maintenance, and function of key immune cells—NK and CD8+ killer T cells—that are involved in killing cancer cells. By activating NK cells, ANKTIVA overcomes the tumor escape phase of clones resistant to T cells and restores memory T cell activity with resultant prolonged duration of complete response.

ANKTIVA is a first-in-class IL-15 agonist IgG1 fusion complex, consisting of an IL-15 mutant (IL-15N72D) fused with an IL-15 receptor alpha, which binds with high affinity to IL-15 receptors on NK, CD4+, and CD8+ T cells. This fusion complex of ANKTIVA mimics the natural biological properties of the membrane-bound IL-15 receptor alpha, delivering IL-15 by dendritic cells and drives the activation and proliferation of NK cells with the generation of memory killer T cells that have retained immune memory against these tumor clones. The proliferation of the trifecta of these immune killing cells and the activation of trained immune memory results in immunogenic cell death, inducing a state of equilibrium with durable complete responses. ANKTIVA has improved pharmacokinetic properties, longer persistence in lymphoid tissues, and enhanced anti-tumor activity compared to native, non-complexed IL-15 in-vivo.

ANKTIVA was recently approved by the FDA for BCG-unresponsive non-muscle invasive bladder cancer CIS with or without papillary tumors. For more information, visit Anktiva.com.

## Indication and Important Safety Information

#### INDICATION AND USAGE

ANKTIVA is an interleukin-15 (IL-15) receptor agonist indicated with Bacillus Calmette-Guerin (BCG) for the treatment of adult patients with BCG-unresponsive nonmuscle invasive bladder cancer (NMIBC) with carcinoma in situ (CIS) with or without papillary tumors.

#### WARNINGS AND PRECAUTIONS

Risk of Metastatic Bladder Cancer with Delayed Cystectomy. Delaying cystectomy can lead to the development of muscle invasive or metastatic bladder cancer, which can be lethal. If patient with CIS do not have a complete response to treatment after a second induction course of ANKTIVA with BCG, reconsider cystectomy.

#### DOSAGE AND ADMINISTRATION

For Intravesical Use Only. Do not administer by subcutaneous or intravenous routes. Instill intravesically only after dilution. Total time from vial puncture to the completion of the intravesical instillation should not exceed 2 hours.

#### USE IN SPECIFIC POPULATIONS

Pregnancy: May cause fetal harm. Advise females of reproductive potential of the potential risk to a fetus and to use effective contraception.

#### ADVERSE REACTIONS

The most common (≥15%) adverse reactions, including laboratory test abnormalities, are increased creatinine, dysuria, hematuria, urinary frequency, micturition urgency, urinary tract infection, increased potassium, musculoskeletal pain, chills and pyrexia.

For more information about ANKTIVA, please see the Full Prescribing Information at <u>www.anktiva.com</u>. You are encouraged to report negative side effects of prescription drugs to FDA.

Visit www.FDA.gov/medwatch or call 1-800-332-1088. You may also contact ImmunityBio at 1-877-ANKTIVA (1-877-265-8482)

## About ImmunityBio

ImmunityBio is a vertically-integrated biotechnology company developing next-generation therapies and vaccines that bolster the natural immune system to defeat cancers and infectious diseases. The company's range of immunotherapy and cell therapy platforms, alone and together, act to drive and sustain an immune response with the goal of creating durable and safe protection against disease. Designated an FDA Breakthrough Therapy, ANKTIVA<sup>®</sup> is the first FDA-approved immunotherapy for non-muscle invasive bladder cancer that activates natural killer cells, T cells, and memory T cells for a long-duration response. The company is applying its science and platforms to treating cancers, including the development of potential cancer vaccines, as well as developing immunotherapies and cell therapies that we believe sharply reduce or eliminate the need for standard high-dose chemotherapy. These platforms and their associated product candidates are designed to be more effective, accessible, and easily administered than current standards of care in oncology and infectious diseases.

For more information, please visit: www.immunitybio.com

#### **Forward Looking Statements**

This press release contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995, such as statements regarding data and results from clinical trials and potential implications therefrom, potential regulatory pathways and approval requests and submissions, the regulatory review process and timing thereof, potential benefits to patients, potential treatment outcomes for patients, the described mechanism of action and results and contributions therefrom, information regarding clinical trials, including potential trial design and timing, potential future uses and applications of ANKTIVA and use in cancer vaccines and across multiple tumor types, and ImmunityBio's approved product and investigational agents as compared to existing treatment options, among others. Statements in this presentation that are not statements of historical fact are considered forward-looking statements, which are usually identified by the use of words such as "anticipates," "believes," "continues," "goal," "could," "estimates," "scheduled," "expects," "intends," "may," "plans," "potential," "predicts," "indicate," "projects," "is," "seeks," "should," "will,"

about which inferences or assumptions may be made, can also be forward-looking statements and are not indicative of future performance or results. Forward-looking statements are neither forecasts, promises nor guarantees, and are based on the current beliefs of ImmunityBio's management as well as assumptions made by and information currently available to ImmunityBio. Such information may be limited or incomplete, and ImmunityBio's statements should not be read to indicate that it has conducted a thorough inquiry into, or review of, all potentially available relevant information. Such statements reflect the current views of ImmunityBio with respect to future events and are subject to known and unknown risks, including business, regulatory, economic and competitive risks, uncertainties, contingencies and assumptions about ImmunityBio, including, without limitation, (i) risks and uncertainties related to the regulatory submission and review process, (ii) the ability of ImmunityBio to fund its ongoing and anticipated clinical trials, (iii) whether clinical trials will result in registrational pathways and the risks and uncertainties regarding the regulatory submission, review and approval process, (iv) the ability of ImmunityBio to continue its planned preclinical and clinical development of its development programs through itself and/or its investigators, and the timing and success of any such continued preclinical and clinical development, patient enrollment and planned regulatory submissions, (v) potential delays in product availability and regulatory approvals, (vi) ImmunityBio's ability to retain and hire key personnel, (vii) ImmunityBio's ability to obtain additional financing to fund its operations and complete the development and commercialization of its various product candidates, (viii) potential product shortages or manufacturing disruptions that may impact the availability and timing of product, (ix) ImmunityBio's ability to successfully commercialize its approved product and product candidates, (x) ImmunityBio's ability to scale its manufacturing and commercial supply operations for its approved product and future approved products, and (xi) ImmunityBio's ability to obtain, maintain, protect and enforce patent protection and other proprietary rights for its product candidates and technologies. More details about these and other risks that may impact ImmunityBio's business are described under the heading "Risk Factors" in the Company's Form 10-K filed with the U.S. Securities and Exchange Commission ("SEC") on March 19, 2024 and the Company's Form 10-Q filed with the SEC on August 12, 2024, and in subsequent filings made by ImmunityBio with the SEC, which are available on the SEC's website at www.sec.gov. ImmunityBio cautions you not to place undue reliance on any forward looking statements, which speak only as of the date hereof. ImmunityBio does not undertake any duty to update any forward-looking statement or other information in this press release, except to the extent required by law.

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