



Tokai Pharmaceuticals Announces Clinical Update

July 26, 2016

Company to Discontinue Phase 3 ARMOR3-SV Trial of Galeterone in AR-V7 Positive mCRPC

Tokai to Host Conference Call Today at 8:30 AM E.T.

BOSTON--(BUSINESS WIRE)--Jul. 26, 2016-- Tokai Pharmaceuticals Inc. (NASDAQ:TKAI), a biopharmaceutical company focused on developing and commercializing innovative therapies for prostate cancer and other hormonally driven diseases, today announced that it plans to discontinue the ARMOR3-SV clinical trial, the company's pivotal Phase 3 study comparing galeterone to enzalutamide in treatment-naïve metastatic castration-resistant prostate cancer (mCRPC) patients whose prostate tumors express AR-V7, following the recommendation made yesterday by the trial's independent Data Monitoring Committee (DMC).

Based on a review of all safety and efficacy data, the DMC determined that the ARMOR3-SV trial will likely not succeed in meeting its primary endpoint of demonstrating an improvement in radiographic progression-free survival (rPFS) for galeterone versus enzalutamide in AR-V7 positive mCRPC. In making its recommendation, the DMC did not cite any safety concerns with galeterone in the trial. ARMOR3-SV is the first pivotal clinical trial in mCRPC to prospectively select AR-V7 positive patients, a population with an unmet medical need and aggressive disease course. The company plans to present data from the trial in a scientific forum once fully available and analyzed.

"We are very disappointed by this outcome. An immediate priority is to analyze the unblinded study data in detail as we evaluate potential paths forward for galeterone and our pipeline," said Jodie Morrison, President and Chief Executive Officer of Tokai. "We are deeply grateful for the support and commitment from the patients participating in the study, their caregivers, and the study investigators and their staff."

The company intends to evaluate its ongoing ARMOR2 expansion in mCRPC patients with acquired resistance to enzalutamide, and the planned study in patients who rapidly progress on either enzalutamide or abiraterone acetate. Tokai plans to allow all patients currently enrolled in the ARMOR2 and ARMOR3-SV trials to continue on therapy following consultation with their physicians and study investigators. The appropriate health authorities and clinical study investigators are being notified that ARMOR3-SV is being discontinued.

As of June 30, 2016, Tokai had approximately \$43.9M in cash and cash equivalents.

Conference Call Information

Tokai will host an update conference call today, July 26th, at 8:30 AM E.T. The call can be accessed by dialing (844) 243-9273 (U.S. and Canada) or (225) 283-0389 (international) and entering passcode 56339813. To access the live audio webcast, or the subsequent archived recording, visit the "Investors and Media – Calendar of Events" section of the Tokai website at www.tokaipharmaceuticals.com. The webcast will be recorded and available for replay on the company's website for two weeks.

About ARMOR3-SV

ARMOR3-SV was a pivotal Phase 3 trial comparing galeterone to Xtandi® (enzalutamide) in mCRPC treatment-naïve patients whose prostate tumors express the AR-V7 splice variant. These truncated ARs are missing the C-terminal end of the AR that contains the ligand-binding domain, which is known as C-terminal loss. AR-V7 is the most common form of C-terminal loss. The trial employed a precision medicine approach for selection of patients with the AR-V7 splice variant by using an AR-V7 clinical trial assay successfully optimized for global use by Qiagen. The primary endpoint of ARMOR3-SV was radiographic progression-free survival assessed by blinded independent central review.

About Galeterone

Galeterone is an oral small molecule that utilizes the mechanistic pathways of current second-generation hormonal therapies, including abiraterone and enzalutamide, while also introducing a unique third mechanism – androgen receptor degradation – that impairs the function of androgen receptors, decreasing their sensitivity to androgen activity and reducing tumor growth. Tokai is developing galeterone for the treatment of patients with metastatic castration-resistant prostate cancer. Tokai has worldwide development and commercialization rights to galeterone.

About Tokai Pharmaceuticals

Tokai Pharmaceuticals is a biopharmaceutical company focused on developing and commercializing innovative therapies for prostate cancer and other hormonally driven diseases. The company's lead drug candidate, galeterone, is an oral small molecule that utilizes the mechanistic pathways of current second-generation hormonal therapies, while also introducing a unique third mechanism – androgen receptor degradation. Tokai is developing galeterone for the treatment of patients with metastatic castration-resistant prostate cancer. The company also has a cancer discovery program focused on compounds that potently and selectively degrade the androgen receptor. For more information on the company, please visit www.tokaipharmaceuticals.com.

Forward-looking Statements

Any statements in this press release about our future expectations, plans and prospects, including statements about our strategy, future operations, intellectual property, and other statements containing the words "believes," "anticipates," "plans," "expects," and similar expressions, constitute forward-looking statements within the meaning of The Private Securities Litigation Reform Act of 1995. Actual results may differ materially from those indicated by such forward-looking statements as a result of various important factors, including: whether our cash resources will be sufficient to fund our continuing operations for the period anticipated; whether, if we determine to move forward with the development of galeterone, necessary regulatory and ethics approvals to commence additional clinical trials for galeterone can be obtained, data from early clinical trials of galeterone will be indicative of the data that will be obtained from future clinical trials; whether the results of clinical trials will warrant submission for regulatory approval of galeterone, any such submission will receive approval from the United States Food and Drug Administration or equivalent foreign regulatory agencies and, if galeterone obtains such approval, it will be successfully distributed and marketed; and other factors discussed in the "Risk Factors" section of our annual report on Form 10-K for the year ended December 31, 2015. Any forward-looking statements contained in this press release speak only as of the date hereof and not of any future date, and we expressly disclaim any obligation to update any forward-looking statements,

whether as a result of new information, future events or otherwise.

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