



aTyr Pharma

aTyr Pharma to Present Poster at the American Thoracic Society 2019 International Conference

April 8, 2019

ATYR1923 shown to modulate inflammatory and fibrotic processes in multiple interstitial lung disease (ILD) animal models

SAN DIEGO, April 08, 2019 (GLOBE NEWSWIRE) -- aTyr Pharma, Inc. (Nasdaq: LIFE), a biotherapeutics company engaged in the discovery and development of innovative medicines based on novel immunological pathways, today announced that the Company will present an abstract in a poster presentation at the American Thoracic Society (ATS) 2019 International Conference, which is being held May 19-22 in Dallas.

"We are very pleased to present these compelling results at this year's ATS conference, which highlight ATYR1923's unique mechanism of action and demonstrate activity in a range of ILD models," said Dr. Sanjay Shukla, President and Chief Executive Officer of aTyr. "Notably, ATYR1923 appears to show potent immunomodulatory effects in models of fibrosing ILD that are highly inflammatory or T cell driven. These findings strongly support continued development of ATYR1923, and we look forward to interim data from our ongoing Phase 1b/2a clinical trial of ATYR1923 in pulmonary sarcoidosis, the first study of ATYR1923 in an interstitial lung disease, in the fourth quarter of this year."

Details of the poster presentation are as follows:

Session: A101 – Translational studies in ILD, IPF, and Sarcoidosis

Title: ATYR1923 Modulates the Inflammatory Response in Experimental Models of Interstitial Lung Disease

Presenter: Sanna Rosengren, Ph.D., aTyr Pharma, Inc.

Poster #: A2421 / 509

Date: May 19, 2019

Time: 2:15 - 4:15 pm

Location: Room D222-D224 (Level 2), KBHCCD

The poster will describe preclinical findings from a study of aTyr's lead immunomodulatory therapeutic candidate, ATYR1923, in murine models of ILD, including scleroderma chronic graft-versus-host disease (scl cGvHD), *Saccharopolyspora rectivirgula*-induced chronic hypersensitivity pneumonitis (CHP), propionibacterium acnes-induced pulmonary granulomatosis (sarcoidosis) and rheumatoid arthritis-associated interstitial lung disease (RA-ILD). ATYR1923 treatment significantly decreased both skin and lung fibrosis in the scl cGvHD model, and it also reduced lung protein levels of several fibrosis-related cytokines or chemokines in the highly inflammatory experimental CHP and sarcoidosis models. These findings, together with initial evidence of tolerability demonstrated in a Phase 1 study of ATYR1923 in healthy volunteers, support further evaluation of this potential therapy in patients with inflammatory ILD.

The full abstract can be viewed [here](#). The final poster presentation will be available on our website on the day of the presentation.

About ATYR1923

aTyr is developing ATYR1923 as a potential therapeutic for patients with interstitial lung diseases. ATYR1923, a fusion protein comprised of the immuno-modulatory domain of histidyl tRNA synthetase fused to the FC region of a human antibody, is a selective modulator of Neuropilin-2 that downregulates the innate and adaptive immune response in inflammatory disease states. aTyr initiated a proof-of-concept Phase 1b/2a trial evaluating ATYR1923 in patients with pulmonary sarcoidosis in the fourth quarter of 2018. This Phase 1b/2a study is a multi-ascending dose, placebo-controlled, first-in-patient study of ATYR1923 that has been designed to evaluate the safety, tolerability, steroid sparing effect, immunogenicity and pharmacokinetics profile of multiple doses of ATYR1923. For the Phase 1b/2a trial, aTyr is collaborating with the Foundation for Sarcoidosis Research (FSR), the nation's leading nonprofit organization dedicated to finding a cure for sarcoidosis and improving care for sarcoidosis patients. Under the terms of the collaboration, FSR will assist with clinical trial site initiation and patient enrollment.

About aTyr

aTyr is a biotherapeutics company engaged in the discovery and development of innovative medicines based on novel immunological pathways. aTyr's research and development efforts are concentrated on a newly discovered area of biology, the extracellular functionality of tRNA synthetases. aTyr has built a global intellectual property estate directed to a potential pipeline of protein compositions derived from 20 tRNA synthetase genes. aTyr is focused on the therapeutic translation of the Resokine pathway, comprised of extracellular proteins derived from the histidyl tRNA synthetase gene family. ATYR1923 is a clinical-stage product candidate which binds to the neuropilin-2 receptor and is designed to down-regulate immune engagement in interstitial lung diseases and other immune-mediated diseases. For more information, please visit <http://www.atyrpharma.com>.

Forward-Looking Statements

This press release contains forward-looking statements within the meaning of the Private Litigation Reform Act. Forward-looking statements are usually identified by the use of words such as “anticipates,” “believes,” “estimates,” “expects,” “intends,” “may,” “plans,” “projects,” “seeks,” “should,” “will,” and variations of such words or similar expressions. We intend these forward-looking statements to be covered by such safe harbor provisions for forward-looking statements and are making this statement for purposes of complying with those safe harbor provisions. These forward-looking statements, including statements regarding the potential therapeutic benefits and applications of our product candidates; our ability to successfully advance our product candidates, undertake certain development activities (such as the initiation of clinical trials, clinical trial enrollment, the conduct of clinical trials and the announcement of top-line results) and accomplish certain development goals, and the timing of such events; and the scope and strength of our intellectual property portfolio. These forward-looking statements also reflect our current views about our plans, intentions, expectations, strategies and prospects, which are based on the information currently available to us and on assumptions we have made. Although we believe that our plans, intentions, expectations, strategies and prospects, as reflected in or suggested by these forward-looking statements, are reasonable, we can give no assurance that the plans, intentions, expectations or strategies will be attained or achieved. All forward-looking statements are based on estimates and assumptions by our management that, although we believe to be reasonable, are inherently uncertain. Furthermore, actual results may differ materially from those described in these forward-looking statements and will be affected by a variety of risks and factors that are beyond our control including, without limitation, risks associated with the discovery, development and regulation of our product candidates, the risk that we may cease or delay preclinical or clinical development activities for any of our existing or future product candidates for a variety of reasons (including difficulties or delays in patient enrollment in current and planned clinical trials), and the risk that we may not be able to raise the additional funding required for our business and product development plans, as well as those risks set forth in our most recent Annual Report on Form 10-K, Quarterly Reports on Form 10-Q and in our other SEC filings. Except as required by law, we assume no obligation to update publicly any forward-looking statements, whether as a result of new information, future events or otherwise.

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Source: aTyr Pharma, Inc.