



TFF Pharmaceuticals Announces Acceptance of Multiple Abstracts Featuring Applications of Thin Film Freezing Technology at the Upcoming AAPS PharmSci 360 Meeting

September 22, 2022

Two Abstracts Selected for Presentation as part of the Meeting's Special Poster Collections

Research Focuses on the Use of Thin Film Freezing to Produce Dry Powder Inhaled Formulations of Monoclonal Antibodies and Applications of Machine Learning to Predict Aerosol Performance of Dry Powders for Inhalation

FORT WORTH, Texas, Sept. 22, 2022 (GLOBE NEWSWIRE) -- TFF Pharmaceuticals, Inc. (NASDAQ: TFFP), a clinical-stage biopharmaceutical company focused on developing and commercializing innovative drug products based on its patented Thin Film Freezing (TFF) technology platform, today announced the acceptance of multiple abstracts featuring application of the Company's Thin Film Freezing Technology at the upcoming American Association of Pharmaceutical Scientists (AAPS) PharmSci 360 Meeting, which is being held in Boston from October 16-19, 2022. Research from two abstracts has been selected for presentation as part of the "Special Poster Collections" at the meeting.

The research being presented was led by colleagues in the laboratory of Dr. Robert O. Williams III, Thin Film Freezing inventor and Special Advisor to TFF, at the University of Texas at Austin. The results highlight the broad applicability of Thin Film Freezing, including the ability to produce stable, aerosolizable dry powder formulations of monoclonal antibodies for lung delivery, and also demonstrate how the application of deep learning methods such as machine learning and artificial intelligence can be used to efficiently develop and measure the aerosol performance of powders made via Thin Film Freezing. As TFF continues to expand its network of collaborations in biologics, the research being done by Dr. Williams and colleagues will guide the company's knowledge-building and ongoing progress.

Presentation details are as follows:

Abstract #: T1030-12-68
Title: **"Applications of Deep Learning to Predict Aerosol Performance of Dry Powders for Inhalation"**
Presenter(s): Junhuang Jiang, B.S.
Date/Time: Tuesday, October 18, 2022, 10:30-11:30 AM ET

Abstract #: W1030-03-13
Title: **"Inhalation Dry Powders of Monoclonal Antibodies Made by Thin-Film Freeze-Drying"**
Presenter(s): Haiyue Xu, Ph.D.
Date/Time: Wednesday, October 19, 2022, 10:30-11:30 AM ET

Scientists in Dr. Williams' lab will also present four additional posters at the conference, highlighting the applicability of Thin Film Freezing in alternative formulations for nicotine, antiviral treatments for COVID-19 and other areas. Full details on the data being presented can be found on the [conference website](#).

ABOUT AMERICAN ASSOCIATION OF PHARMACEUTICAL SCIENTISTS (AAPS)

Founded in 1986, the American Association of Pharmaceutical Scientists (AAPS) is a professional, scientific organization of approximately 7,000 individual members and over 10,000 actively participating stakeholders employed in academia, industry, government, and other pharmaceutical science related research institutes worldwide.

ABOUT TFF PHARMACEUTICALS' THIN FILM FREEZING TECHNOLOGY PLATFORM

TFF Pharmaceuticals' proprietary Thin Film Freezing (TFF) technology allows for the transformation of both existing compounds and new chemical entities into dry powder formulations exhibiting unique characteristics and benefits. The Thin Film Freezing process is a particle engineering process designed to generate dry powder particles with advantageous properties for inhalation, as well as parenteral, nasal, oral, topical and ocular routes of administration. The process can be used to engineer powders for direct delivery to the site of need, circumventing challenges of systemic administration and leading to improved bioavailability, faster onset of action, and improved safety and efficacy. The ability to deliver therapies directly to the target organ, such as the lung, allows TFF powders to be administered at lower doses compared to oral drugs, reducing unwanted toxicities and side effects. Laboratory data suggests the aerodynamic properties of the powders created by Thin Film Freezing can deliver as much as 75% of the dose to the deep lung. Thin Film Freezing does not introduce heat, shear stress, or other forces that can damage more complex therapeutic components, such as fragile biologics, and instead enables the reformulation of these materials into easily stored and temperature-stable dry powders, making therapeutics and vaccines more accessible for distribution worldwide. The advantages of Thin Film Freezing can be used to enhance traditional delivery or combined to enable next-generation pharmaceutical products.

ABOUT TFF PHARMACEUTICALS

TFF Pharmaceuticals, Inc. is a clinical-stage biopharmaceutical company engaging patented rapid freezing technology to develop and transform medicines into potent dry powder formulations for better efficacy, safety and stability. The company's versatile Thin Film Freezing (TFF) technology platform has broad applicability to convert any drug, including vaccines, small and large molecules and biologics, into an elegant dry powder highly

advantageous for inhalation, with improved absorption so drugs can also be delivered to the eyes, nose and topically to the skin. TFF has two lead drug candidates in the clinic: Voriconazole Inhalation Powder and Tacrolimus Inhalation Powder, and continues to expand its pipeline by collaborating with a broad array of pharmaceutical companies, academic institutions and government partners to revolutionize healthcare around the globe. The TFF Platform is protected by 120+ patents issued or pending in the U.S. and internationally. To learn more about TFF Pharmaceuticals and its product candidates, visit the Company's website at <https://tffpharma.com>.

SAFE HARBOR

This press release contains forward-looking statements regarding TFF Pharmaceuticals, Inc., including the expectations for its continued development of Voriconazole Inhalation Powder, Tacrolimus Inhalation Powder, the benefits of the Company's TFF platform and the Company's plans to add to its existing pipeline of product candidates. Those forward-looking statements involve known and unknown risks, uncertainties and other factors that could cause actual results to differ materially. Among those factors are: (i) the risk that the Company may not be able to successfully conclude clinical testing or obtain pre-market approval of its Voriconazole Inhalation Powder, Tacrolimus Inhalation Powder or any of its other dry powder product candidates, (ii) no drug product incorporating the TFF platform has received FDA pre-market approval or otherwise been incorporated into a commercial drug product, (iii) the Company has no current agreements or understandings with any large pharmaceutical companies for the development of a drug product incorporating the TFF Platform, (iv) the risk that the Company will not be able to conclude a long-term commercial agreement with any third-party, and (v) those other risks disclosed in the section "Risk Factors" included in the Company's 2021 Annual Report on Form 10-K filed with the SEC on March 24, 2022. TFF Pharmaceuticals cautions readers not to place undue reliance on any forward-looking statements. TFF Pharmaceuticals does not undertake, and specifically disclaims, any obligation to update or revise such statements to reflect new circumstances or unanticipated events as they occur, except as required by law.

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Source: TFF Pharmaceuticals, Inc.