TFF Pharmaceuticals Expands R&D Operations with New Austin Facility

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New Facility in Austin Will Enable Increased Capacity for Internal Pipeline Assets While Accommodating Growing Interest in Partnered Projects

Significantly Increases Manufacturing Capabilities to Further Expand Thin Film Freezing Applications

FORT WORTH, Texas, July 14, 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 a significant expansion of its R&D operations through the lease of a new research and development facility located in Austin, Texas.

The new facility of over 3,500 square feet significantly increases TFF's total lab space, adding a dedicated lab for downstream processing of products created via Thin Film Freezing, which will complement the company's existing formulation development capabilities. As TFF expands its in-house and partnered research, including applications in biologics, the additional laboratory space will also provide significantly more real estate to accommodate larger equipment to facilitate scale-up and manufacturing, as well as to produce supplies for preclinical studies.

The new space will be supervised by Donald Owens, Ph.D., Director of Product Development at TFF, and supported by John Koleng, Ph.D., R.Ph., Vice President of Product Development and Manufacturing. The company also plans to expand the product development team in Austin, which will be based at the new facility, to support the growing number of partnered projects. The lease arrangement used to finance the facility is also a major advantage, providing TFF with a highly flexible and capital efficient approach in expanding its R&D operations while preserving capital resources.

"The opening of our new Austin R&D facility represents an important evolution of TFF's operations, reflecting growing demand for our Thin Film Freezing technology and product development services," Dr. Koleng said. "The Austin facility will enable us to increase testing capacity so that we can run a larger number of feasibility studies, including a focus on biologics where demand has continued to grow. Additionally, as many of our partnered programs move to clinical evaluation, the ability to scale-up manufacturing in parallel becomes mission critical. We expect the new Austin facility will allow us to meet the current growing demand for Thin Film Freezing-based products."

The addition of this facility also cements Austin as a central hub of TFF's research operations. The company maintains a close relationship and research collaborations with academic institutions, including the University of Texas at Austin, where TFF has extensive early-stage formulation capabilities.

"As our internal programs advance and our network of partnerships expands, establishing this additional research space in Austin is a natural next step," added Glenn Mattes, CEO of TFF Pharmaceuticals. "I'm confident that Don and John will spearhead a successful expansion and scale-up of TFF's capabilities to meet growing demand. We will also continue to work closely with our partners, including Dr. Robert O. Williams, Special Advisor to TFF and Co-Inventor of the Thin Film Freezing technology, who continues to advance new research demonstrating the broad applications and advantages of our technology from his home base at UT Austin."

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.

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This press release contains forward-looking statements regarding TFF Pharmaceuticals, Inc., including the expectations for its continued development

of Inhaled Tacrolimus and Voriconazole Powders, 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 Inhaled Tacrolimus, Voriconazole Powders or any of its 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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