

August 3, 2022



Greenwich LifeSciences Provides Updates on Flamingo-01 Phase III Clinical Trial

STAFFORD, Texas--(BUSINESS WIRE)-- Greenwich LifeSciences, Inc. (Nasdaq: GLSI) (the "Company"), a clinical-stage biopharmaceutical company focused on the development of GLSI-100, an immunotherapy to prevent breast cancer recurrences in patients who have previously undergone surgery, today announced the following:

- As previously disclosed, clinical trial contracts and budgets have been executed at multiple hospitals and the largest oncology network in the US. Clinical site initiation visits to train clinicians, nurses, coordinators, and pharmacists are underway, after which sites will be activated and the Flamingo-01 Phase III clinical trial will commence. We continue to actively recruit and prepare additional US clinical sites.
- The Company is continuing to make progress to initiate clinical sites in Europe through oncology networks, potentially including networks in Germany, Spain, and France.
- Following site activation, patients will be screened, tested for HLA type, randomized, and enrolled into any of 3 clinical trial arms, and treatment of the first patients will begin. Certain aspects of each arm will be open label, and the 3rd arm exploring HLA types that are not HLA-A02 will be entirely open label.
- Patients who are interested in participating in the trial can contact the Company by email at flamingo-01@greenwichlifesciences.com and can keep up to date with the progress of the trial or can obtain clinical site contact information to contact sites directly on clinicaltrials.gov with identifier NCT05232916 (view [here](#)).
- Pharmacy process testing is nearing completion, which is anticipated to be the final testing required to commence Flamingo-01 and to start treating patients.

Dr. Jaye Thompson, VP Clinical and Regulatory Affairs, commented, "Our team has been very busy preparing for, scheduling, and conducting clinical site initiations. We have begun shipping clinical trial supplies to sites. All plans, procedures, and electronic systems are in place to allow the clinical trial to commence. We are excited to be at this stage in study start-up with Flamingo-01."

CEO Snehal Patel commented, "With our previously disclosed financial strategy, including our cash position, which should fund us through the coming years, and our ATM with one of the leading biotech investment banks, we are poised to opportunistically use the ATM at our discretion. To date, we have not used the ATM."

Mr. Patel further added, "We look forward to commencing Flamingo-01, to sharing more information about the clinical sites, key opinion leaders, clinical networks, and countries participating in the Phase III trial, and to publishing the open label Phase III data during the trial. Initial Phase III data could be available before the end of this year. We anticipate dovetailing our use of the ATM with these major milestones and validating events as we

compare the Phase III trial progress to our Phase IIb trial results. Our goal is to reproduce the Phase IIb clinical trial results, which showed no metastatic breast cancer recurrences in patients treated with GLSI-100 over 5 years of follow-up, if the patients were treated, followed, and remained disease free over the first 6 months.”

About FLAMINGO-01 and GLSI-100

FLAMINGO-01 (NCT05232916) is a Phase III clinical trial designed to evaluate the safety and efficacy of GLSI-100 (GP2 + GM-CSF) in HER2/neu positive breast cancer patients who had residual disease or high-risk pathologic complete response at surgery and who have completed both neoadjuvant and postoperative adjuvant trastuzumab based treatment. The trial will be led by Baylor College of Medicine and will include US and international clinical sites from university-based hospitals and cooperative networks. In the double-blinded arms of the Phase III trial, approximately 500 HLA-A*02 patients will be randomized to GLSI-100 or placebo, and up to 100 patients of other HLA types will be treated with GLSI-100 in a third arm. The trial has been designed to detect a hazard ratio of 0.3 in invasive breast cancer-free survival, where 28 events will be required. An interim analysis for superiority and futility will be conducted when at least half of those events, 14, have occurred. This sample size provides 80% power if the annual rate of events in placebo-treated subjects is 2.4% or greater. The trial is currently registered on clinicaltrials.gov and can be seen [here](#). For future updates about FLAMINGO-01 please visit the Company’s clinical trial tab at <https://greenwichlifesciences.com/clinical-trials/>.

About Breast Cancer and HER2/neu Positivity

One in eight U.S. women will develop invasive breast cancer over her lifetime, with approximately 282,000 new breast cancer patients and 3.8 million breast cancer survivors in 2021. HER2/neu (human epidermal growth factor receptor 2) protein is a cell surface receptor protein that is expressed in a variety of common cancers, including in 75% of breast cancers at low (1+), intermediate (2+), and high (3+ or over-expressor) levels.

About Greenwich LifeSciences, Inc.

Greenwich LifeSciences is a clinical-stage biopharmaceutical company focused on the development of GP2, an immunotherapy to prevent breast cancer recurrences in patients who have previously undergone surgery. GP2 is a 9 amino acid transmembrane peptide of the HER2/neu protein, a cell surface receptor protein that is expressed in a variety of common cancers, including expression in 75% of breast cancers at low (1+), intermediate (2+), and high (3+ or over-expressor) levels. In a completed randomized, single-blinded, placebo-controlled, multi-center Phase IIb clinical trial led by MD Anderson Cancer Center, no recurrences were observed in patients treated with GLSI-100 in the HER2/neu 3+ adjuvant setting after median 5 years of follow-up, if the patients were treated, followed, and remained disease free over the first 6 months, which is the time required to reach peak immunity and thus maximum efficacy and protection ($p = 0.0338$). For the 146 patients who have been treated with GLSI-100 to date over 4 clinical trials, treatment was well tolerated and no serious adverse events were observed related to the immunotherapy. Greenwich LifeSciences is planning to commence a Phase III clinical trial using a similar treatment regime as the Phase IIb clinical trial. For more information on Greenwich LifeSciences, please visit the Company’s website at www.greenwichlifesciences.com and follow the Company's Twitter at <https://twitter.com/GreenwichLS>.

About GP2 Immunotherapy Immune Response

As previously reported, GP2 immunotherapy generated GP2-specific immune responses, leading to no metastatic breast cancer recurrence in the HER2/*neu* 3+ population in the Phase IIb clinical trial, thus supporting GP2's mechanism of action. Statistically significant peak immunity was reached after 6 months of GP2 treatment, as measured in both the Dimer Binding Assay and the DTH skin test. HER2/*neu* 3+ population immune response was similar to the HER2/*neu* 1-2+ population immune response, suggesting the potential to treat the HER2/*neu* 1-2+ population (including triple negative breast cancer) with GP2 immunotherapy in combination with trastuzumab (Herceptin) based products and other clinically active agents. The broad based immune response suggests the potential for GP2 to treat other HER2/*neu* 1-3+ expressing cancers. For more information on GP2 immune response and clinical data, please visit the Company's clinical trial tab at <https://greenwichlifesciences.com/clinical-trials/>.

Forward-Looking Statement Disclaimer

Statements in this press release contain "forward-looking statements" that are subject to substantial risks and uncertainties. All statements, other than statements of historical fact, contained in this press release are forward-looking statements. Forward-looking statements contained in this press release may be identified by the use of words such as "anticipate," "believe," "contemplate," "could," "estimate," "expect," "intend," "seek," "may," "might," "plan," "potential," "predict," "project," "target," "aim," "should," "will," "would," or the negative of these words or other similar expressions, although not all forward-looking statements contain these words. Forward-looking statements are based on Greenwich LifeSciences Inc.'s current expectations and are subject to inherent uncertainties, risks and assumptions that are difficult to predict, including statements regarding the intended use of net proceeds from the public offering; consequently, actual results may differ materially from those expressed or implied by such forward-looking statements. Further, certain forward-looking statements are based on assumptions as to future events that may not prove to be accurate. These and other risks and uncertainties are described more fully in the section entitled "Risk Factors" in Greenwich LifeSciences' Annual Report on Form 10-K for the year ended December 31, 2021 and other periodic reports filed with the Securities and Exchange Commission. Forward-looking statements contained in this announcement are made as of this date, and Greenwich LifeSciences, Inc. undertakes no duty to update such information except as required under applicable law.

View source version on businesswire.com:

<https://www.businesswire.com/news/home/20220803005603/en/>

Company Contact

Snehal Patel

Investor Relations

Office: (832) 819-3232

Email: info@greenwichlifesciences.com

Investor & Public Relations Contact for Greenwich LifeSciences

Dave Gentry

RedChip Companies Inc.

Office: 1-800-RED CHIP (733 2447)

Cell: (407) 491-4498

Email: dave@redchip.com

Source: Greenwich LifeSciences, Inc.