



MoonLake Immunotherapeutics screens first patient in Phase 2 study of the Nanobody® sonelokimab in active psoriatic arthritis

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- Phase 2 study represents an important step in psoriatic arthritis clinical development, assessing high threshold outcomes across joint and skin domains of this multi-faceted disease
- Global study to assess efficacy and safety of sonelokimab compared to placebo, with adalimumab as an active reference arm
- Sonelokimab is an investigational Nanobody® designed to treat inflammatory diseases by inhibiting IL-17A/A, IL-17A/F and IL-17F/F dimers that drive inflammation, directly target sites of inflammation and penetrate difficult-to-reach inflamed tissues
- New study follows the completion of a global Phase 2b study of sonelokimab in moderate-to-severe psoriasis which demonstrated a rapid and durable clinical response; Phase 2 “MIRA” study is already underway to evaluate sonelokimab in moderate-to-severe hidradenitis suppurativa

ZUG, Switzerland, December 14, 2022 – MoonLake Immunotherapeutics AG (MoonLake; Nasdaq: MLTX), a clinical-stage biotechnology company focused on creating next-level therapies for inflammatory diseases, today announced that the first subject has been screened in the United States, in a Phase 2 clinical study of the Nanobody® sonelokimab in patients with active psoriatic arthritis (PsA).

The global, randomized, double-blind, placebo-controlled study (M1095-PSA-201, “ARGO”) is designed to evaluate the efficacy and safety of different doses of sonelokimab compared to placebo, with adalimumab as an active reference arm, in approximately 200 patients with active PsA. The primary endpoint of the study is the American College of Rheumatology (ACR) 50 response defined as the percentage of participants achieving ≥50% improvement in signs and symptoms of disease from baseline, compared to placebo.

The study will also include a range of secondary endpoints reflecting the heterogeneous and multi-faceted nature of the disease, including the assessment of skin clearance (including Psoriasis Area and Severity Index (PASI) 100), disability, enthesitis, pain, as well as other levels of ACR response (including ACR70). Recruitment is on-going, with the first sites being initiated in Europe and in the United States.

Sonelokimab (M1095) is an investigational Nanobody® designed to treat inflammatory disease by inhibiting the IL-17A/A, IL-17A/F, and IL-17F/F dimers that drive inflammation. In addition, sonelokimab is designed to directly target sites of inflammation and penetrate difficult-to-reach inflamed tissues.

Kristian Reich, Founder and Chief Scientific Officer at MoonLake, commented: “We are very pleased to have begun the ARGO study of the Nanobody sonelokimab in the treatment of psoriatic arthritis. In this study we have set high thresholds for outcomes across joint and skin domains of this multi-faceted disease, as we seek to evaluate the potential of sonelokimab’s IL-17A and IL-17F inhibition, small size and albumin-binding properties to significantly improve treatment outcomes for patients with inflammatory conditions.”

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About the ARGO study

The ARGO study (M1095-PSA-201) is a global, randomized, double-blind, placebo-controlled trial to evaluate the efficacy and safety of the Nanobody® sonelokimab, administered subcutaneously, in the treatment of adult patients with active psoriatic arthritis. The study will comprise approximately 200 patients, and will evaluate different doses of sonelokimab, with placebo control and adalimumab as an active reference arm. The primary endpoint of the study is the percentage of participants achieving ≥50% improvement in signs and symptoms of disease from baseline, compared to placebo, as measured by the American College of Rheumatology (ACR) 50 response. The study will also evaluate a number of secondary endpoints, including improvement compared to placebo in ACR70, complete skin clearance as measured by at least a 100 percent improvement in the Psoriasis Area and Severity Index (PASI100), physical function as measured by the Health Assessment Questionnaire-Disability Index (HAQ-DI), enthesitis as measured by the Leeds Enthesitis Index and pain as measured by the Patients Assessment of Arthritis Pain (PtAAP).

About MoonLake Immunotherapeutics

MoonLake Immunotherapeutics is a clinical-stage biopharmaceutical company unlocking the potential of sonelokimab, a novel investigational Nanobody® for the treatment of inflammatory disease, to revolutionize outcomes for patients. Sonelokimab inhibits IL-17A and IL-17F by inhibiting the IL-17A/A, IL-17A/F, and IL-17F/F dimers that drive inflammation. The company’s focus is on inflammatory diseases with a major unmet need, including hidradenitis suppurativa and psoriatic arthritis – conditions affecting millions of people worldwide with a large need for improved treatment options. MoonLake was founded in 2021 and is headquartered in Zug, Switzerland. Further information is available at www.moonlaketx.com.

About Nanobodies®

Nanobodies® represent a new generation of antibody-derived targeted therapies. They consist of one or more domains based on the small antigen-

binding variable regions of heavy-chain-only antibodies (VHH). Nanobodies[®] have a number of potential advantages over traditional antibodies, including their small size, enhanced tissue penetration, resistance to temperature changes, ease of manufacturing, and the ability to design multivalent therapeutic molecules with bespoke target combinations.

The terms Nanobody[®] and Nanobodies[®] are trademarks of Ablynx, a Sanofi company.

About Sonelokimab

Sonelokimab (M1095) is an investigational ~40 kDa humanized Nanobody[®] consisting of three VHH domains covalently linked by flexible glycine-serine spacers. With two domains, sonelokimab selectively binds with high affinity to IL-17A and IL-17F, thereby inhibiting the IL-17A/A, IL-17A/F, and IL-17F/F dimers. A third central domain binds to human albumin, facilitating further enrichment of sonelokimab at sites of inflammatory edema.

Sonelokimab has been assessed in a randomized, placebo-controlled Phase 2b study in 313 patients with moderate-to-severe plaque-type psoriasis. Sonelokimab demonstrated a rapid and durable clinical response (Investigator's Global Assessment Score 0 or 1, Psoriasis Area and Severity Index 90/100) in patients with moderate-to-severe plaque-type psoriasis. Sonelokimab was generally well tolerated, with a safety profile similar to the active control, secukinumab (Papp KA, et al. Lancet. 2021; 397:1564-1575).

In an earlier Phase 1 study in patients with moderate-to-severe plaque-type psoriasis, sonelokimab has been shown to decrease (to normal skin levels) the cutaneous gene expression of pro-inflammatory cytokines and chemokines (Svecova D. J Am Acad Dermatol. 2019;81:196–203). Recently, a phase 2 trial in hidradenitis suppurativa (NCT05322473, M1095-PSA-201, "MIRA") including multiple arms and over 200 patients has been initiated (announced on May 5, 2022).

Sonelokimab is not yet approved for use in any indication.

About Psoriatic Arthritis

Psoriatic arthritis (PsA) is a chronic and progressive inflammatory arthritis associated with psoriasis primarily affecting the peripheral joints. The clinical features of PsA are diverse, involving pain, swelling, and stiffness of the joints, which can result in restricted mobility and fatigue. PsA occurs in up to 30% of patients with psoriasis, most commonly those aged between 30 and 60 years. The symptom burden of PsA can have a substantial negative impact on patient quality of life. Although the exact mechanism of disease is not fully understood, evidence suggests that activation of the IL-17 pathway plays an important role in the disease pathophysiology.

Cautionary Statement Regarding Forward Looking Statements

This press release contains certain "forward-looking statements" within the meaning of the U.S. Private Securities Litigation Reform Act of 1995. Forward-looking statements include, but are not limited to, statements regarding MoonLake's expectations, hopes, beliefs, intentions or strategies regarding the future including, without limitation, statements regarding: plans for clinical trials and research and development programs; and the anticipated timing of the results from those trials, including completing the MIRA trial; and the anticipated markets for products, if approved. In addition, any statements that refer to projections, forecasts, or other characterizations of future events or circumstances, including any underlying assumptions, are forward-looking statements. The words "anticipate," "believe," "continue," "could," "estimate," "expect," "intend," "may," "might," "plan," "possible," "potential," "predict," "project," "should," "would" and similar expressions may identify forward-looking statements, but the absence of these words does not mean that statement is not forward looking.

Forward-looking statements are based on current expectations and assumptions that, while considered reasonable by MoonLake and its management, as the case may be, are inherently uncertain. New risks and uncertainties may emerge from time to time, and it is not possible to predict all risks and uncertainties. Actual results could differ materially from those anticipated in such forward-looking statements as a result of various risks and uncertainties, which include, without limitation, risks and uncertainties associated with MoonLake's business in general and limited operating history, difficulty enrolling patients in clinical trials, and reliance on third parties to conduct and support its clinical trials, and the other risks described in or incorporated by reference into MoonLake's Current Report on Form 8-K filed on April 11, 2022 and subsequent filings with the Securities and Exchange Commission.

Nothing in this press release should be regarded as a representation by any person that the forward-looking statements set forth herein will be achieved or that any of the contemplated results of such forward-looking statements will be achieved. You should not place undue reliance on forward-looking statements in this press release, which speak only as of the date they are made and are qualified in their entirety by reference to the cautionary statements herein. MoonLake does not undertake or accept any duty to release publicly any updates or revisions to any forward-looking statements to reflect any change in its expectations or in the events, conditions or circumstances on which any such statement is based.

MoonLake Immunotherapeutics Investors

Matthias Bodenstedt, CFO
info@moonlaketx.com

MoonLake Immunotherapeutics Media

Patricia Sousa
media@moonlaketx.com

Matthew Cole, Mary-Jane Elliott
Consilium Strategic Communications
Tel: +44 (0) 20 3709 5700
media@moonlaketx.com
MoonLake@consilium-comms.com