### **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

WASHINGTON, D.C. 20549

## FORM 8-K

CURRENT REPORT

PURSUANT TO SECTION 13 or 15(d) of the SECURITIES EXCHANGE ACT OF 1934

Date of Report (Date of earliest event reported): November 5, 2023



## MOONLAKE IMMUNOTHERAPEUTICS

001-39630 98-1711963 Cayman Islands (State or Other Jurisdiction of Incorporation) (Commission File Number) (IRS Employer Identification No.) Dorfstrasse 29 6300 Zug Switzerland (Address of principal executive offices and Zip Code) 41 415108022 (Registrant's Telephone Number, Including Area Code) N/A (Former Name or Former Address, if Changed Since Last Report) Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instruction A.2 below):☐ Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425) Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12) Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b)) Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c)) Securities registered pursuant to Section 12(b) of the Act: Title of each class Trading Symbol(s) Name of each exchange on which registered MLTX The Nasdaq Capital Market

Class A ordinary share, par value \$0.0001 per share

Indicate by check mark whether the reg chapter).	strant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this
Emerging growth company	
If an emerging growth company, indicat the Exchange Act. $\hfill\Box$	by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of

#### Item 7.01. Regulation FD Disclosure.

On November 5, 2023, MoonLake Immunotherapeutics (the "Company") issued a press release announcing positive top-line results from its global Phase 2 ARGO trial (M1095-PSA-201) evaluating the efficacy and safety of the Nanobody® sonelokimab in patients with active psoriatic arthritis. The Company is hosting a webcast today, Monday, November 6, 2023 at 8:00 am, Eastern Time, to discuss the data results.

A copy of the press release and the webcast presentation are furnished as Exhibit 99.1 and Exhibit 99.2, respectively, to this Current Report on Form 8-K and are incorporated by reference herein. The exhibits furnished under Item 7.01 of this Current Report on Form 8-K shall not be deemed to be "filed" for purposes of Section 18 of the Exchange Act, or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Exchange Act or the Securities Act, regardless of any general incorporation language in such filing.

#### Item 8.01. Other Events

#### Top-line Results from Phase 2 ARGO Trial

On November 5, 2023, the Company announced positive top-line results from its global Phase 2 ARGO trial evaluating the efficacy and safety of the Nanobody® sonelokimab in patients with active psoriatic arthritis ("PsA").

The ARGO trial (M1095-PSA-201), which enrolled 207 patients, met its primary endpoint with a statistically significant greater proportion of patients treated with either sonelokimab 60mg or 120mg (with induction) achieving an American College of Rheumatology ("ACR") 50 response compared to those on placebo at week 12. Specifically, for the 60mg and 120mg doses with induction, respectively, 46% and 47% of patients treated with sonelokimab achieved ACR50 (p<0.01 versus placebo); 78% and 72% of patients achieved ACR20; and 29% and 26% achieved ACR70. The primary analyses were based on the most stringent type of analysis for such trials, intention-to-treat with non-responder imputation ("ITF-NR"). As expected, the 60mg dose without induction did not reach statistical significance, confirming the 60mg and 120mg dose as the potential dose regimens to carry forward into Phase 3.

All key secondary endpoints were met for the 60mg and 120mg doses with induction. The key secondary endpoint Psoriasis Area and Severity Index ("PASI") 90 was met for all doses with induction; 77% of patients responding at week 12 to the 60mg dose (ITT-NRI, p=0.001 versus placebo). For this dose, 58% of patients achieved complete skin clearance (PASI100) at week 12. PASI responses across dose arms were consistent with the previously reported Phase 2b data of sonelokimab in moderate-to-severe plaque-type psoriasis, with the 120mg dose achieving the highest responses for PASI100 (close to 60% of patients at week 12, ITT-NRI) in patients with more severe skin lesions (PASI score  $\geq$  10 at baseline).

Other clinically relevant secondary endpoints, such as Minimal Disease Activity (MDA), the modified Nail Psoriasis Severity Index (mNAPSI), the Leeds Enthesitis Index (LEI) and the patient self-reported Psoriatic Arthritis Impact of Disease (PsAID-12), each show promising levels of response at week 12.

Adalimumab was used as an active reference to validate responses across arms (not powered for statistical comparisons to active treatment). Sonelokimab 60mg and 120mg (with induction) numerically outperformed adalimumab on the primary endpoint and all key secondary endpoints, with the observed deltas further supporting the potential for sonelokimab as a future leading therapy.

The patient discontinuation rate in the ARGO trial was low at week 12 (less than 4%), similar to what was observed in previous trials of sonelokimab in psoriasis and hidradenitis suppurativa. The safety profile of sonelokimab in ARGO was consistent with previously reported studies with no new safety signals. Specifically, oral candidiasis was observed in less than 2% of patients on sonelokimab, with no case leading to discontinuation. No cases of inflammatory bowel disease (IBD), major adverse cardiovascular events (MACE) or suicidal ideation and behavior ("SI/B") were observed. Overall, sonelokimab continues to show a favorable safety profile. Across the sonelokimab clinical program to date, the Company has not seen any signal of SI/B or liver enzyme elevations related to sonelokimab treatment.

The results suggest that, as early as week 12, the Nanobody® sonelokimab reaches levels of clinical response at or above those seen with other therapies tested in similarly stringent trials. The high performance of sonelokimab and its favorable safety profile continue to support the potential of using a smaller biologic with albumin-binding capacity to inhibit IL-17A and IL-17F for the treatment of inflammatory diseases.

#### Item 9.01. Financial Statements and Exhibits

(d) Exhibits. The following exhibits are being furnished herewith:

Exhibit Number	Exhibit Title or Description
99.1	Press Release, dated November 5, 2023
99.2	Slide Presentation, dated November 6, 2023
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

#### SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

MOONLAKE IMMUNOTHERAPEUTICS
By: /s/ Matthias Bodenstedt
Name: Matthias Bodenstedt
Title: Chief Financial Officer

November 6, 2023

Date:



#### MoonLake Immunotherapeutics announces landmark Phase 2 results for Nanobody® sonelokimab in active psoriatic arthritis

- First placebo-controlled randomized trial in active psoriatic arthritis (PsA) using a Nanobody® to report positive topline results in support of potential best-in-class profile
- Primary endpoint ACR50 met with up to 47% (p<0.01 versus placebo) of patients on sonelokimab achieving ACR50 as early as week 12</li>
- All key secondary endpoints met including up to 77% (p<0.001 versus placebo) of patients on sonelokimab achieving PASI90 as early as week 12
- Other secondary endpoints also reached statistical significance at week 12, including endpoints focused on deep tissue inflammation, Minimal Disease Activity (MDA) and patient reported outcomes
- · High threshold outcomes, including ACR70 and PASI100, continue to improve beyond week 12, consistent with previous studies of sonelokimab
- · Discontinuation rate below 4% and safety results of sonelokimab consistent with previously reported studies with no new safety signals
- The top-line data will be discussed on Monday 6 November, at 2pm CET/8am ET, via webcast (registration link below)

**ZUG, Switzerland,** November 5, 2023 – MoonLake Immunotherapeutics ("MoonLake"; Nasdaq: MLTX), a clinical-stage biotechnology company focused on creating next-level therapies for inflammatory diseases, today announced positive top-line results from its global Phase 2 ARGO trial evaluating the efficacy and safety of the Nanobody® sonelokimab in patients with active psoriatic arthritis (PsA).

The ARGO trial (M1095-PSA-201), which enrolled 207 patients, met its primary endpoint with a statistically significant greater proportion of patients treated with either sonelokimab 60mg or 120mg (with induction) achieving an American College of Rheumatology (ACR) 50 response compared to those on placebo at week 12. Specifically, for the 60mg and 120mg doses with induction, respectively, 46% and 47% of patients treated with sonelokimab achieved ACR50 (p-0.01 versus placebo); 78% and 72% of patients achieved ACR20; and 29% and 26% achieved ACR70. The primary analyses were based on the most stringent type of analysis for such trials, intention-to-treat with non-responder imputation (ITT-NRI). As expected, the 60mg dose without induction did not reach statistical significance, confirming the 60mg and 120mg with induction as the potential dose regimens to carry forward into Phase 3.

All key secondary endpoints were met for the 60mg and 120mg doses with induction. The key secondary endpoint Psoriasis Area and Severity Index (PASI) 90 was met for all doses with induction; 77% of patients responding at week 12 to the 60mg dose (ITT-NRI, p<0.001 versus placebo). For this dose, 58% of patients achieved complete skin clearance (PASI100) at week 12. PASI responses across dose arms were consistent with the previously reported Phase 2b data of sonelokimab in moderate-to-severe plaque-type psoriasis, with the 120mg dose achieving the highest responses for PASI100 (close to 60% of patients at week 12, ITT-NRI) in patients with more severe skin lesions (PASI score ≥ 10 at baseline).

Other clinically relevant secondary endpoints, such as Minimal Disease Activity (MDA), the modified Nail Psoriasis Severity Index (mNAPSI), the Leeds Enthesitis Index (LEI) and the patient self-reported Psoriatic Arthritis Impact of Disease (PsAID-12), each show promising levels of response at week 12.

Jorge Santos da Silva, PhD, Founder and Chief Executive Officer at MoonLake, said: "As part of our efforts to elevate outcomes for patients, we set ambitious goals for our Nanobody® sonelokimab. ARGO is MoonLake's third Phase 2 trial and the first trial in psoriatic arthritis using a Nanobody® to report positive topline results, setting another landmark milestone. Again, we met the objectives we set out for ourselves, in this case for PsA. As with our hidradenitis suppurativa program, the preparation of our Phase 3 program in PsA is rapidly advancing and expected timing of end-of-Phase 2 regulatory meetings will be announced in due course."

Adalimumab was used as an active reference to validate responses across arms (not powered for statistical comparisons to active treatment). Sonelokimab 60mg and 120mg (with induction) numerically outperformed adalimumab on the primary endpoint and all key secondary endpoints, with the observed deltas further supporting the potential for sonelokimab as a future leading therapy.

The patient discontinuation rate in the ARGO trial was low at week 12 (less than 4%), similar to what was observed in previous trials of sonelokimab in psoriasis and hidradenitis suppurativa. The safety profile of sonelokimab in ARGO was consistent with previously reported studies with no new safety signals. Specifically, oral candidiasis was observed in less than 2% of patients on sonelokimab, with no case leading to discontinuation. No cases of inflammatory bowel disease (IBD), major adverse cardiovascular events (MACE) or suicidal ideation and behavior (SI/B) were observed. Overall, sonelokimab continues to show a favorable safety profile. Across the sonelokimab clinical program to date, the company has not seen any signal of SI/B or liver enzyme elevations related to sonelokimab treatment.

The results suggest that, as early as week 12, the Nanobody® sonelokimab reaches levels of clinical response at or above those seen with other therapies tested in similarly stringent trials. The high performance of sonelokimab and its favorable safety profile continue to support the potential of using a smaller biologic with albumin-binding capacity to inhibit IL-17A and IL-17F for the treatment of inflammatory diseases.

Kristian Reich, MD, PhD, Founder and Chief Scientific Officer at MoonLake, commented: "The positive topline results from the pivotal-like ARGO trial establish the Nanobody® sonelokimab as an innovative potential treatment in another chronic inflammatory disease, psoriatic arthritis. Importantly, the results confirm our expectations in terms of dosing, clinical responses and safety findings. We believe that we have elevated the therapeutic bar by reaching important clinical outcomes at week 12. The data also support sonelokimab's unique molecule characteristics and mode of action to effectively inhibit IL-17F in addition to IL-17A in deep tissue inflammation. The positive outcome of the ARGO trial would not have been possible without the support and participation of the patients and investigators to whom we are grateful."

Joseph F. Merola, MD, MMSc, Professor of Dermatology, Medicine and Rheumatology, Distinguished Chair of Dermatology at UT Southwestern Medical Center added: "Psoriatic arthritis is a chronic, inflammatory, recurrent, and debilitating multidomain disease that has profound and wide-ranging impacts across many aspects of patients' lives. As a physician, I see tremendous need for new treatment options for people living with PsA, particularly for therapies that reach high thresholds of response (e.g., ACR70, PASI100) and that simultaneously improve the disease domains that matter most for patients. The positive high clinical responses across joint and skin endpoints and stringent composite measures such as minimal disease activity observed with sonelokimab as early as week 12 in the Phase 2 ARGO trial are encouraging, demonstrating its promise as a potential future treatment option."

These topline data will be discussed on Monday November 6, 2023 at 2pm CEST/8am ET before the Nasdag market opens, via webcast at:

#### https://edge.media-server.com/mmc/p/bp43a4xr

A replay of the webcast and the presentation document will be made available at https://ir.moonlaketx.com.

The ARGO trial proceeds to week 24, with a 4-week safety follow-up. Important data is being collected regarding longer-term efficacy and safety of sonelokimab, as well as results from the cross-over of patients treated with placebo or adalimumab to sonelokimab and the continued monthly dosing of sonelokimab.

Today's top-line data announcement follows the announcement in July 2023 that the ARGO trial successfully completed randomization of its target 200 patients, several weeks ahead of schedule (read more here). Full results from the ARGO trial will be submitted for publication in a peer-reviewed medical journal and for presentation at an upcoming scientific meeting.

The positive top-line12-week results from the Phase 2 ARGO trial in PsA follows the positive top-line 12-week and 24-week results from the Phase 2 MIRA trial in hidradenitis suppurativa (HS) as announced in June 2023 (read more <a href="here">here</a>) and October 2023 (read more <a href="here">here</a>). The MIRA trial set a landmark milestone as the first placebo-controlled randomized trial in HS to report positive top-line results using HiSCR75 as the primary endpoint.

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.

#### About the ARGO trial

The ARGO trial (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 PsA. The trial is designed to evaluate different doses of sonelokimab, with placebo control and adalimumab as an active reference arm. The primary endpoint of the trial 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 trial also evaluates a number of secondary endpoints, including improvement compared to placebo in ACR20, complete skin clearance as measured by at least a 100% improvement in the Psoriasis Area and Severity Index (PASI), physical function as measured by the Health Assessment Questionnaire-Disability Index, enthesitis as measured by the Leeds Enthesitis Index and pain as measured by the Patients Assessment of Arthritis Pain. Further details are available on: <a href="https://clinicaltrials.gov/ct2/show/NCT05640245">https://clinicaltrials.gov/ct2/show/NCT05640245</a>

#### **About Sonelokimat**

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/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 is being assessed in two trials, the Phase 2 ARGO trial in PsA (trial ongoing) and the Phase 2 MIRA trial in HS. In June 2023, topline results of the MIRA trial (NCT05322473) at 12 weeks showed that the trial met its primary endpoint, the Hidradenitis Suppurativa Clinical Response (HiSCR)75, which is a higher measure of clinical response versus the HiSCR50 measure used in other clinical trials, setting a landmark milestone. In October 2023, the full dataset from the MIRA trial at 24 weeks showed that maintenance treatment with sonelokimab led to further improvements in HiSCR75 response rates and other clinically relevant outcomes.

Sonelokimab has also been assessed in a randomized, placebo-controlled Phase 2b trial (NCT03384745) in 313 patients with moderate-to-severe plaque-type psoriasis. Clinical response (considering the Investigator's Global Assessment Score 0 or 1, and the Psoriasis Area and Severity Index 90/100) was observed 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 trial 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).

#### 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 their ability to be designed into multivalent therapeutic molecules with bespoke target combinations.

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

#### 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 <a href="www.moonlaketv.com">www.moonlaketv.com</a>. The terms Nanobody® and Nanobodies® are trademarks of Ablynx, a Sanofi company.

#### 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 top-line data from the ARGO trial; and the efficacy of our products, if approved, including in relation to other products. 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 Annual Report on Form 10-K for the year ended December 31, 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.

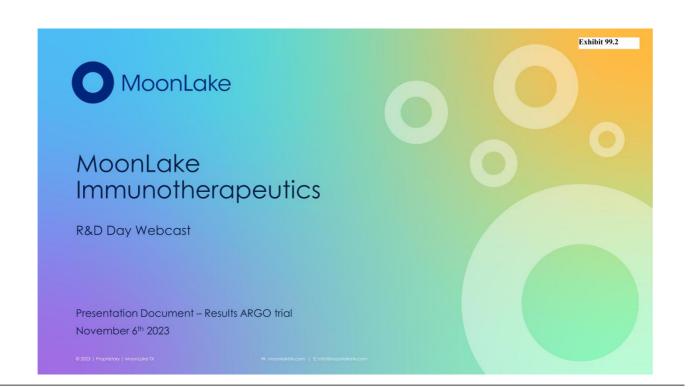
MoonLake Immunotherapeutics Investors Matthias Bodenstedt, CFO

MoonLake Immunotherapeutics Media Patricia Sousa

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ICR Consilium

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# Welcome to our R&D Day



**Date:** November 6<sup>th</sup>, 2023 **Time:** 8am EDT **Location:** Nasdaq (Webcast)



Topic	Sub-topics	Lead	Timing	
Intro	- Key messages	Jorge Santos da Silva	5 mins	
PsA – ARGO trial Primary Endpoint Readout - ARGO's profile, incl. baseline - Efficacy data at primary & secondary endpoints - Safety data & other secondaries - Discussing impact of ARGO in PsA		Kristian Reich	30 mins	
Moving - Conclusions Forward - Overall value of MLTX - Path forward		Jorge Santos da Silva	10 mins	
Q&A		Matthias Bodenstedt	To end	



#### Forward Looking Statements

Certain statements in this presentation may constitute "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 our expectations, hopes, beliefs, intentions or strategies regarding the future including, without limitation, statements regarding: plans for clinical trials and research and development programs, including our MIRA trial in HS; the anticipated liming of the results from those trials expected near-term catalysts with respect to our clinical trials; and expectations regarding the time period over which our capital resources will be sufficient to fund our anticipated operations. 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", "polerie", "polerie", "anticipate", "polerie", "po

Certain information contained in this presentation relates to or is based on studies, publications, surveys and our own internal estimates and research. In this presentation, we rely on, and refer to, publicly available information and statistics regarding market participants in the sector in which we compete and other industry data. Any comparison of us to any other entity assumes the reliability of the information available to us. We obtained this information and statistics from third-party sources, including reports by market research firms and company, filings. In addition, all of the market data included in this presentation involve a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while we believe our internal research is reliable, such research has not been verified by any independent source and we have not independently verified the information.

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## Instructions for this session



Please take note of the disclaimer on the prior page



You can **submit your questions through the Q&A function** – we will address as many questions as possible at the end of this session



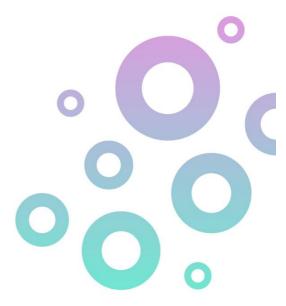
**The presentation** and a **replay** will be made available on our IR website



For any **technical issues** during the webcast, please also use the Q&A function to request support



Other requests should be directed to ir@moonlaketx.com or media@moonlaketx.com



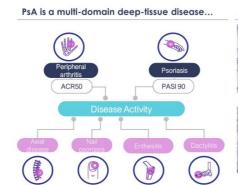
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## PsA: IL-17F dependent multi-domain disease in difficult-to-reach tissues MoonLake





...with 3x IL-17F vs IL-17A1...

Joint & spine disease



(PsA starts as enthesitis², with IL-17F producing cells in associated plaques³ and axial disease⁴⁵, and with 80% of patients suffering from nail psoriasis²)



#### Market size

0.5% Global 10+ USD bn sales beyond 2030

## **Unmet Needs**

80% or more patients with multiple disease domains

skin involvement in PsA patients – severe skin disease

20% is still standard ACR level of improvement

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## The key messages



#### MLTX's ARGO trial is a SUCCESS

- Joints: ACR50 primary endpoint met at wk 12 for 60mg and 120mg induction doses – up to 47% ACR50 (p<0.01 vs placebo)</li>
- Skin: PASI90 secondary endpoint met at wk 12 also for 60mg and 120mg induction doses up to 77% PASI90 (p<0.001 vs placebo)</li>
- Other secondary end points met at wk 12, wk16 data indicated continued improvement—impact of SLK for PsA patients is clear (e.g., PASI100, ACR70, MDA)
- No new safety signals continues to indicate favorable safety profile

#### MLTX's SLK Nanobody® continues to open a new era in therapy

- Differentiating on multi-domain responses consistency across skin & joint scores
- Potential to use both doses (60mg and 120mg), advantageous for label
- Highest numbers on higher level outcomes (e.g., ACR70, PASI100) at week 12
- Impact in important disease activity scores as early as week 12
- Differentiating with favorable safety profile

#### MLTX positioned to become a leader in I&I

- Our view: SLK now a leading potential asset in HS, PsA & PsO (all multi-bn markets)
- A wealth of potential indications to further pursue (\$30bn+)
- Soon Ph3-ready in 3+ TAs expected to start Ph3s in 2024



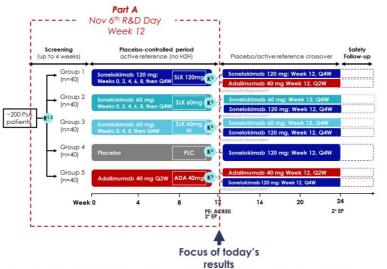
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## ARGO: Phase 2 trial design





## Key design elements of ARGO

- Global study with approx. 50 sites, with 207 patients randomized
- Double-blind, placebo-controlled, active reference arm
- Active PsA (TJC68 ≥3, SJC≥3, current active PsO and/or confirmed PsO)
- ACR50 as primary endpoint, PASI90 as key secondary endpoint
- ITT-NRI primary analysis; Stratification by sex, previous bio use
- Groups 1 ("SLK 120mg" with induction) and 2 ("SLK 60mg" with induction) are doses previously used in SLK trials
- Group 3 ("SLK 60mg NI", no induction) was used to support requirement for induction dosing

Notes. 18 industriations institlated by sex and prior exposure to biologics 2.4 Whee Office 1, tel eligible participants were moderated 111.111.3 in the cross-over period, storting of Week 12, porticipants on sorticismos 13 mg who did not chieve an adaptate response writered to adaptate and a proper participant of the control of the c

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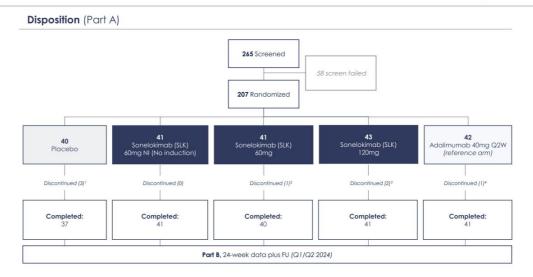
# Baseline: All arms of the ARGO trial are well balanced



		Main arms				Active reference	
Patient characteristics	ARGO (n=207)	Placebo (n=40)	Sonelokimab 60mg NI (n=41)	Sonelokimab 60mg (n=41)	Sonelokimab 120mg (n=43)	Adalimumab (n=42)	
Age, yrs, mean	49	47	50	48	50	48	
Female, %	49	48	51	49	49	50	
BMI, kg/m², mean	29.0	27.9	29.6	27.7	30.3	29.3	
Duration of PsA, yrs, mean	5.4	5.7	6.0	6.2	4.9	4.1	
Prior biologic use, %	17	15	20	17	19	17	
Concomitant non-biologic DMARD, %	70	68	81	63	67	69	
Concomitant MTX, %	67	65	78	56	67	67	
Tender Joint Count (TJC68), mean	17	17	18	17	17	16	
Swollen Joint Count (SJC66), mean	9	9	11	9	9	10	
Affected BSA $\geq$ 3%, %	69	67	78	63	63	76	
PASI (BSA ≥ 3%), mean	7.2	7.1	6.7	8.0	7.2	7.3	
Nail psoriasis (mNAPSI > 0), %	55	55	59	54	40	67	
mNAPSI, mean	13.4	15.2	16.0	11.5	14.4	10.5	
Presence of enthesitis (LEI > 0), $\%$	32	36	34	39	26	24	
LEI score, mean	2.4	1.9	2.9	2.9	2.7	1.6	
Presence of dactylitis, %	12	13	10	12	12	12	
Patient Pain (PtAAP), mean	58	56	60	60	55	58	
PsA Impact of Disease (PsAID) 12, mean	4.2	3.9	4.3	4.6	3.9	4.5	

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# **Disposition:** The ARGO trial has a drop-out of rate of < 4%



Note: Part A level: 12(database lock 12th October 2023. A Explaymer Event. Walw by \$ x | 4 Mindowel by Subject. Completed Part A = completed freatment up to Week 10 and completed assessments to Week 12; 1 k Not Treated. It x Walw by \$ x | x | lock of Effect; 2 k | x | honored withdrowed circles (3); 1 k | A for treatment is 1 keep for the second or the second of the second or t

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# ACR50: SLK reaches the highest scores seen at week 12



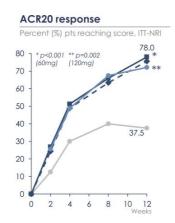


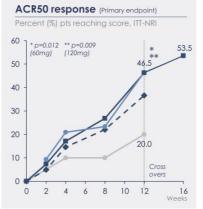
ote: This is a comparison across trials, with inherent limitations. No head-to-head trials, Multiplicity-controlled p-values from a logistic regression with covariates for sex and prior biologic use 1 Not the primary analysis, estimated from trial published data

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## ACR50 primary endpoint responses increase over time







**Primary endpoint met for 60mg and 120mg** – SLK 60mg NI not significantly different from PLC

PLC - ♦ - SLK 60mg NI - SLK 60mg - SLK 120mg

**High response levels** across all ACR levels measured

As expected, **60mg dose of SLK is sufficient** to drive promising ACR50 responses

Scores **increase over time** esp. for the higher scores

PLC higher vs. **4-13% in similar** trials<sup>1</sup>, and before control with the ADA active reference arm

..." multiplativ\_controlled\_p-values from a logistic regression with covariates for sex and prior biologic use. All patients have reached week 16, week 24 database to be locked in Q1 2024 1 Including comparable trials: ADEPT, DISCOVER 1 and 2, SPIRT-P1, BE

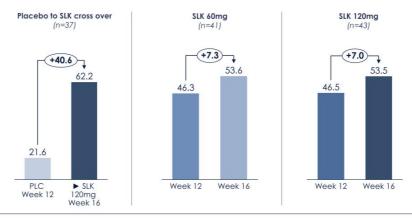
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# Beyond week 12: continued ACR50 improvement for main doses

## ACR50 responses at week 16

Percent (%) of patients in each arm, ITI



SLK ACR50 response increases with monthly maintenance dosing, reaching to 50%+ (60mg NI plateaus at week 16)

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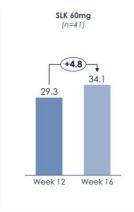
# Beyond week 12: the same is observed for ACR70

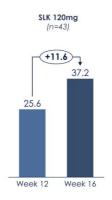


## ACR70 responses at week 16

Percent (%) of patients in each arm, ITI







ACR70 response also continues to increase with monthly maintenance dosing to levels over 35% - above competitors

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# SLK reaches the **highest PASI90** scores already at week 12

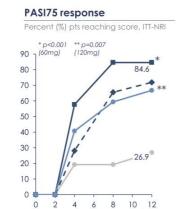


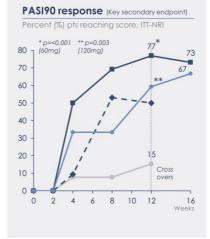


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## ARGO met PASI90 key secondary endpoint in PsA







All doses significantly respond across PASI scores

PLC - ♦ - SLK 60mg NI - SLK 60mg - SLK 120mg

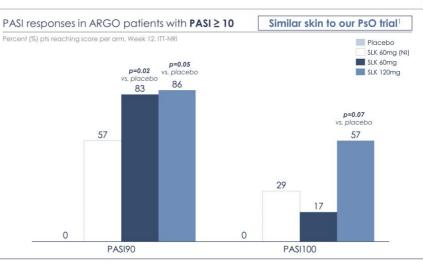
- Above all comparable data for other products at week 12 incl. BKZ
- Versus ACR, 60 and 120 mg doses separate for PsA skin lesions
- 60mg performs well in terms responses for overall PsA skin lesions at week 12
- A higher dose likely required for PsA subgroups with moderate-to-severe skin involvement and deeper responses

ASPO multiplicity-controlled and PASI75 nominal p-values from a logistic regression with covariates for sex and prior biologic use. All patients have reached week 16, week 24 database to be tocked in Q1 2024

purcé: MoonLake Clinical 6

# The 120mg is the most effective dose for moderate-to-severe skin PsO





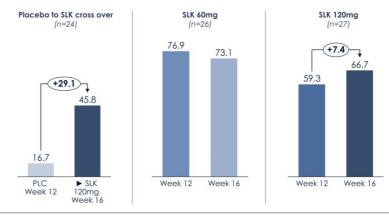
Whereas 60mg is sufficient for overall PsA population, 120mg is still most effective for PsO (as per our 313 patient Phase 2b1)

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# Beyond week 12: Cross overs show continued PASI90 improvement

## PASI90 responses at week 16

Percent (%) of patients in each arm, IT

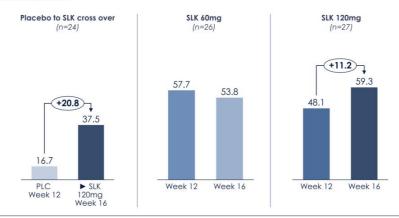


Placebo **switch to SLK** rapidly elevates PASI90 responses
All monthly doses of **SLK drive PASI90 to close or above 70%** to week 16 (above other PsA leading assets)

# Beyond week 12: Cross overs show continued PASI100 improvement

## PASI100 responses at week 16

Percent (%) of patients in each arm, IT



Placebo **switch to SLK** rapidly elevates PASI100 responses
All monthly doses of **SLK drive PASI100 above 50%** to week 16 (and above other PsA leading assets)

## How does SLK compare to BKZ in ACR50 and PASI90?



## Comparison of ARGO and BE OPTIMAL using active reference arm



Note: Comparisons across trials, with inherent limitations. No head-to-head trials, 1 Ritchlin et al. Ann Rheum Dis 2023;82:1404-1414 BE OPTIMAL

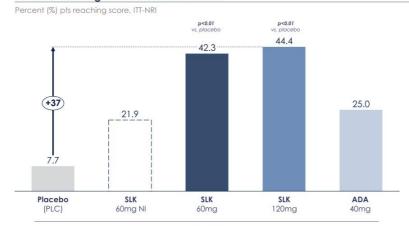
Source: MoonLake Clinical

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# SLK brings over 40% of patients to $\bf both \ ACR50 \ and \ PASI90$ at week 12



## Patients reaching both ACR50 and PASI90



Week 12

- Over 40% of patients reach both ACR50 and PASI90
- Both 60 mg and 120mg with induction behave similarly
- As would be expected in PsA, for some subgroups and some timepoints one dose performs better than the other, e.g.,
  - 120mg better in patients with moderate-to-severe or nail PsO
  - 60mg is sufficient to control joint inflammation
- The **non-induction dose is not sufficient** to optimally control inflammation in PsA

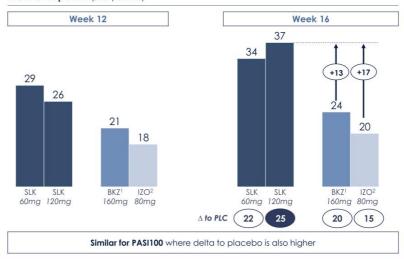
Valors: Nominaria p-values from a logistic regression with covariates for sex and prior biologic use: all patients with 85A=x35% at baseline, and distribution of such patients is balanced between arms (see baseline details). Comparison across trials, with inherent immidrants. No head

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## Let's look further: In ACR70 SLK further differentiates





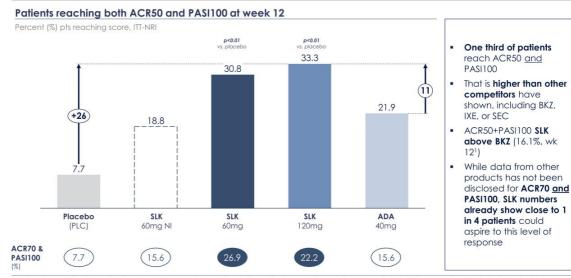
Note: Comparisons across trials, with inherent limitations. No head-to-head trials. Placebo for SLK is 12.5%, for BKZ is 3% and for IZO is 5%. All patients have reached week 16, week 24 database to be locked in Q1 2024.

2023;82;1404-1414 BE OPTIMAL 2 Benrens et al. 2022 EULAR OP Source: Moonlake Clinical

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## Let's look further: SLK brings 1 in 3 patients to both ACR50 and PASI100



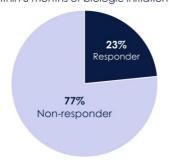


Note: Comparisons across tinks, with inherent firmitations. No head-to-head trials, Nominal p-values from a logistic regression with covariates for sex and prior biologic use: all patients with BSA=3% at baseline, and distribution of such patients is balanced between arms (see baseline details). I warmer et al., EAVO 2021, PUSSS

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### >3 in 4 patients do not achieve MDA within 6 months of biologic initiation<sup>1</sup>



% of patients who were MDA responders

## MDA breakdown<sup>2</sup>

MDA (Minimal Disease Activity) denotes a patient who has achieved ≥5 of the following 7 criteria:

1. Joints: TJC ≤1 2. Joints: SJC ≤1

3. **Skin**: PASI ≤1 (or BSA ≤3%)

**4. Entheses:** Tender entheseal points ≤1

**5. PRO:** Patient pain VAS ≤15

6. PRO: Patient global activity VAS ≤20

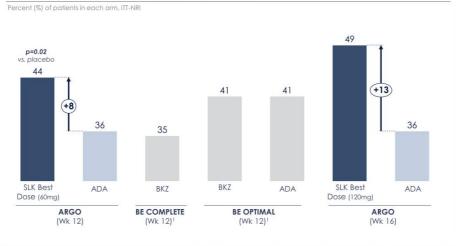
7. PRO: HAQ-DI VAS ≤0.5

#### Achievement of MDA clinical responses with any biologic remains low

## Achievement of leading MDA responses already at week 12 for SLK



## Minimal Disease Activity (MDA) response in ARGO



At week 12, MDA responses of SLK already above what would was observed in data from other products

At week 16, the ADA arm was similar to week 12 whereas SLK responses keep increasing – 120 mg close to 50%

ote: Comparisans across trials, with inherent limitations. No head-to-head trials. Nominal p-value from a logistic regression with covariates for sex and prior biologic use. All patients have reached week 16, week 24 database to be locked in Q1 2024 1

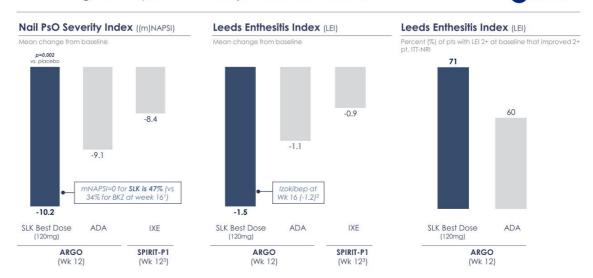
Estimated from data published for the respective study (Merola et al. Lancet, 2023;40):38–48 BE COMPLETE, McInnes et al. Lancet, 2023;401:25–37 BE OPTIMAL)

Source: Magnillake Clinical

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# SLK has highest responses in deep tissue inflammation

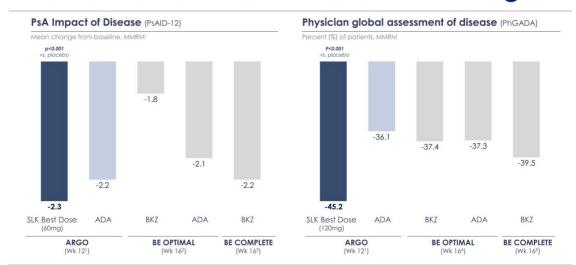


to let. Comparisons across trials, with inherent fimiliations, No head-to-head trials. Nominal p-values, from MMRM including co-variates; baseline mNAPSI, sex, prior biologic use, visit, treatment and visit-by-treatment interaction 1 Merola et al. ACR 202

Abstract #1433 2 Kurt de Vlam et al. ACR 2022 Poster #2151 (estimated from graph) 3 Mease et al. Ann Rheum Dis 2017;76;79-87 (NAPS) and LEI)

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# SLK impacts outcomes reported by patients and physicians



SLK continues to impact outcomes that matter for patients, with higher performance versus competitors already at week 12

# Safety: **no notable signals** indicating a strong profile in PsA



	Placebo	Sonelokimab 60 mg NI	Sonelokimab 60 mg	Sonelokimab 120 mg	Adalimumab (active reference
Patients with events, n (%)	39	41	41	43	42
Any TEAE	15 (38.5%)	12 (29.3%)	14 (34.1%)	17 (39.5%)	14 (33.3%)
Any SAE	0	0	1 (2.4%)2	0	0
Any TEAE leading to discontinuation	0	0	0	1 (2.3%)3	0
Fatal TEAE	0	0	0	0	0
Most frequent TEAEs <sup>1</sup>					
Upper respiratory tract infection	1 (2.6%)	3 (7.3%)	2 (4.9%)	1 (2.3%)	1 (2.4%)
Injection site erythema (reaction)	0	0	2 (4.9%)	3 (7.0%)	1 (2.4%)
Headache	0	0	1 (2.4%)	2 (4.7%)	0
Adverse events of special interest					
IBD	0	0	0	0	0
Diarrhea	0	0	1 (2.4%)	0	1 (2.4%)
Candidiasis					
Oral Candidiasis	0	1 (2.4%)	1 (2.4%)	0	0
Oropharyngeal Candidiasis	0	0	0	0	0
Esophageal Candidiasis	0	0	0	0	0
Vulvovaginal Candidiasis	0	0	0	0	0
Skin Candidiasis	0	0	0	0	0
Genital Candidiasis	0	0	0	0	0
Other adverse events of interest					
Serious hypersensitivity	0	0	0	0	0
Serious infection	0	0	1 (2.4%)2	0	0
MACE	0	0	0	0	0
Liver AST/ALT > 5x ULN	0	0	0	0	0

### SLK continues to show a **favorable benefit-risk profile**



### From the ARGO trial

- No notable signals and no new signals
- No MACE, no IBD, no malignancies, no SI/B
- mAb-like ISR levels, no liver signals
- Less than 3% oral candidiasis on 60mg, none in 120mg - No discontinuations due to candidiasis

### Beyond the ARGO trial

- SLK has a favorable safety profile based on multiple trials (PsO, HS, PsA) involving ~700 pts
- We see no signal of SI/B related to SLK treatment
- We have not observed any signal related to liver enzyme elevations in patients exposed to SLK

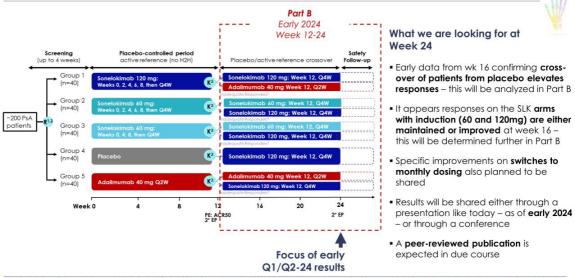


Source: MoonLake Clinical

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### Guidance: What to expect from the second part of the ARGO trial





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### What we already know at week 12

- Dose-response pattern in line with findings in plaque-type Psoriasis (PsO, 313 patients) and Hidradenitis Suppurativa (HS, 234 patients)
- Doses with optimal benefit-risk profile identified for PsA 60 mg
   120mg (with induction)
- Support of favorable safety profile
- Main ARGO study design elements will be replicated in Phase 3 design
- Larger trial size (potentially ~800 per trial) expected to reduce variations driven by small groups (e.g., prior biologics in ACR50 PLC)
- Endpoints confirmed for Phase3 ACR50 & PA\$I90 but with expected primary endpoint at week 16
- Currently planning two trials
  - TNF-IR PLC-controlled trial
  - Bio-naïve PLC- and adalimumab-controlled trial

#### Open points to week 24

- Additional ARGO data to be considered in terms of e.g., expected responses, powering requirements, secondary endpoints
- 24-week results also need to be considered, for example impact of weight etc. to determine key subgroups
- Considerations for two doses or dose escalation to address different subgroups (e.g., with PASI≥10)
- ARGO full safety profile to confirm benefit-risk and any adjustments required to inclusion/exclusion

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# Research & Clinical Summary

### The scientific rationale for a unique molecule

- SLK has unique IL-17F and A binding properties, a key inflammation MoA
- SLK has enhanced tissue penetration, reaching where mAbs cannot
- Direct evidence in animal models of differential penetration into joints

### What ARGO shows – impact of SLK Nanobody® in PsA

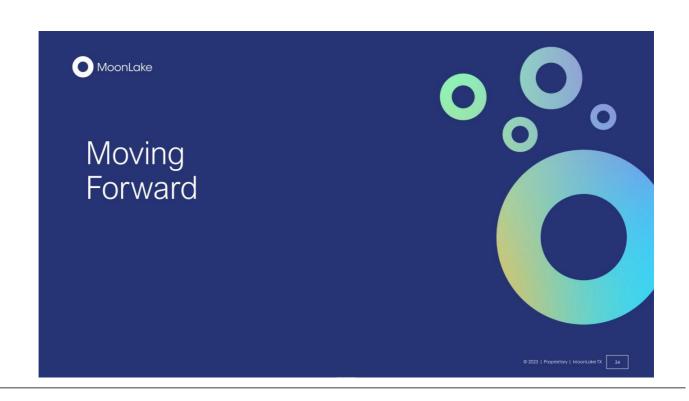
- ACR50 primary endpoint met with highest scores observed so far
- PASI90 secondary endpoint also met with highest scores observed so far
- Higher outcomes (ACR70, PASI100) vs current standards
- Impact on what matters for patients & physicians: MDA, mNAPSI, LEI, etc.
- Favorable safety tolerability profile, as observed previously in other trials

### Optimal outcome for fast clinical development

- Winning dose regimen and endpoints now known for Phase 3
- Builds on HS and PsO data and de-risks next MLTX trials



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## SLK is a potential leader in large inflammatory diseases



		Trial	Patients (n)	Leading MoA	SLK leading asset
37	HS	Phase 2b (MIRA)  Placebo-controlled with Cosentry.  M	234	IL-17A & F TNF & IL-17A	Highest ever primary endpoint (HiSCR75), largest deltas to placebo, depth of responses
	PsO	Phase 2b  Placebo-controlled with Humira™	313	IL-17A & F IL-23 & IL-17A	Cosentyx <sup>™</sup> at PASI100, compared to BKZ, IL-23, etc.
1	PsA	Phase 2b (ARGO) Placebo-controlled with Humitra <sup>TM</sup>	207	IL-17A & F TNF & IL-17A	Highest responses in skin/joints, MoA shows best data
1	Other Rheum & Derm	TBA	TBA	IL-17A & F Other	IL-17A & F inhibition <b>best</b> data in AS, nr-AxSpA, enthesitis

PsA ARGO 24 week data in early 2024, also decisions on other indications

Source: MoonLake Corporate

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### A promising MoA...

### Highest responses

IL-17A & F inhibition showed highest & most durable responses (BKZ & SLK)

### Favorable safety profile

Long history of consistent safety for IL-17, where Candida ("thrush") is main adverse event – vs. TB, ISRs, cancer, infections, CV events, death... (with TNFa or JAK1)

### Leading potential

Top 2 typically get 2/3 of indication bio sales (avg. \$4bn+)<sup>1</sup>

### ... and a differentiated molecule

### Elevated Performance

SLK shows highest responses at high treatment goals, HiSCR75, IHS4-100, PsO PASI100, PsA ACR50/70+PASI90/100 and key patient outcomes

### Higher goals

Combines higher primary clinical endpoints in comparisons to gold-standards like Humira® (or Cosentyx®)

### Improved convenience

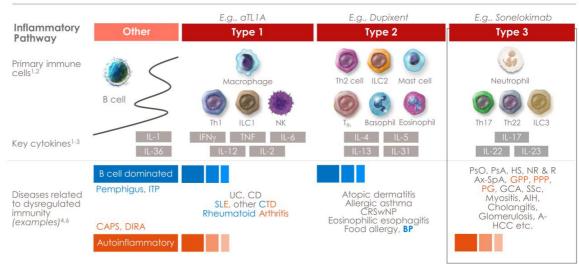
Monthly 1ml maintenance injections and leading benefit-risk profile

Note: Comparisons across trials, with inherent limitations, No head-to-head trials, 1 Based on analysis of 2023 sales of 11 indications (PsO, RA, Asthma, AD, AxSpA, CU, SLE, PsA, COPD, CD, UC) – 2030 ranges are even higher

Source: DRG, MoonLoke Corporate © 2023 | Proprietory | MoonLoke TX

### SLK is a potential leader in Type 3 diseases



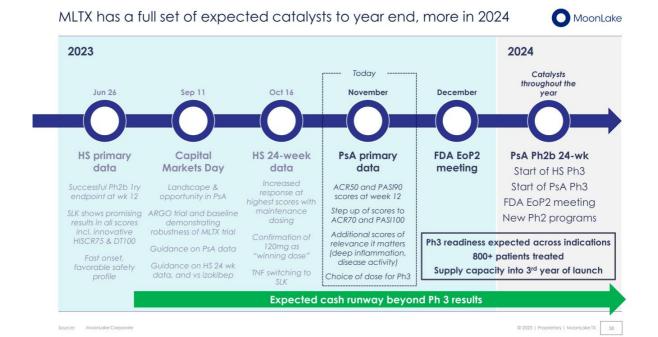


Note: Simplified depiction based on key published information, not meant to be exhaustive in nature. AD, atopic dermatifis IFNv. interferon gamma: IL interieusin: ILC, innate tymphoid cell: NK, natural killer: Tfn, folicular helper: Th, T helper:

1 Kalka CE, et al. Immunology, 2008;123:324:338 2 Eyerich K, Eyerich S, J Eur Acad Dermatol Venereal, 2018;32:497-703 3 Raphael I, et al. Cytokine, 2015;74:5-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 45-17 4

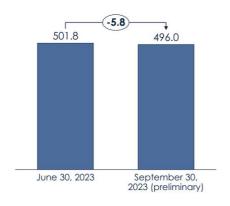
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# Cash, cash equivalents & short-term marketable securities in USD M



- Strong balance sheet with USD 496M in cash, cash equivalents and short-term marketable debt securities as per September 30, 2023
- Low cash burn of USD 5.8M in Q3-2023 demonstrating cost-efficient set up and focus of MLTX
- Expected cash runway until the end of 2026, covering
  - Completion of ongoing Ph2 programs in HS & PsA
  - Ph3 program in HS
  - Ph3 program in PsA
  - Additional Ph2 program
  - Submission of BLA
  - All other base spend

1 Differences may not add up due to rounding

Source: MoonLake Finance

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### MLTX has the potential to become a leader in I&I

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- Best in class potential SLK is a promising molecule as shown by Ph 2b data in HS and PsO, and now the primary endpoint data in PsA
- Rarefied air only 2 molecules can inhibit all IL-17 proinflammatory dimers, only SLK combines that MoA with unique molecular characteristics that differentiate it
- MLTX = Robust trials pivotal-like designs provide differentiating insight, esp. in diseases like HS, PsA, PsO & related inflammatory conditions
- Potential multi Bn drug SLK may impact very large markets that are growing fast now, with potential over \$70bn, as a leading asset in Type 3 inflammation
- Our time MLTX has key near-term catalysts and is in a position of financial stability and strength



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