

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): June 7, 2022

MOONLAKE IMMUNOTHERAPEUTICS
(Exact name of registrant as specified in its charter)

Cayman Islands (State or other jurisdiction of incorporation)	001-39630 (Commission File Number)	N/A (I.R.S. Employer Identification No.)
Dorfstrasse 29 Zug, Switzerland (Address of principal executive offices)		6300 (Zip Code)
41 415108022 (Registrant's telephone number, including area code)		

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:

- 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 Securities Exchange Act of 1934:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Class A ordinary share, par value \$0.0001 per share	MLTX	The Nasdaq Stock Market LLC

Indicate by check mark whether the registrant 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 chapter).

Emerging growth company

If an emerging growth company, indicate 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 the Exchange Act.

Item 7.01 Regulation FD Disclosure.

On June 7, 2022, MoonLake Immunotherapeutics (the “Company”) will be posting to its website an investor presentation to be used in the Company’s June 7, 2022 Capital Markets Day event, including information regarding the Company’s clinical development program and recent developments in respect thereof. A copy of the presentation is included with this Form 8-K for convenience and attached hereto as Exhibit 99.1. The investor presentation and replays of the webcast will be available on the Company’s website at <https://ir.moonlaketx.com>.

The information in this current report on Form 8-K and the exhibit attached hereto shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (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 Securities Act of 1933, as amended, or the Exchange Act, regardless of any general incorporation language in such filing, unless specifically so incorporated.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

Exhibit No.	Description
99.1	MoonLake Immunotherapeutics. Capital Markets Day Presentation dated June 7, 2022
104	Cover Page Interactive Data File-the cover page XBRL tags are embedded within the Inline XBRL document

Signature

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

MoonLake Immunotherapeutics

Date: June 7, 2022

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



MoonLake Immunotherapeutics

Capital Markets Day 2022

June 7th 2022

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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 preclinical studies, clinical trials and research and development programs; the anticipated timing of the results from those studies and 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,” “believe,” “continue,” “could,” “estimate,” “expect,” “intend,” “may,” “might,” “plan,” “possible,” “potential,” “predict,” “project,” “should,” “strive,” “would” and similar expressions may identify forward-looking statements, but the absence of these words does not mean that such statement is not forward looking. Forward-looking statements are based on current expectations and assumptions that, while we and our management consider reasonable, 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. Factors that may cause actual results to differ materially from current expectations include, but are not limited to, various factors beyond management’s control including general economic conditions and other risks, uncertainties and factors set forth in the section entitled “Risk Factors” and “Cautionary Statement Regarding Forward-Looking Statements” in our revised definitive proxy statement on Schedule 14A that was filed with the U.S. Securities and Exchange Commission (the “SEC”) on March 4, 2022 (the “Proxy Statement”), as well as factors associated with companies, such as MoonLake Immunotherapeutics, that operate in the biopharma industry. Nothing in this presentation 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 presentation, which speak only as of the date they are made and are qualified in their entirety by reference to the cautionary statements herein. We neither undertake nor accept any duty to release publicly any updates or revisions to any forward-looking statements to reflect any change in our expectations or in the events, conditions or circumstances on which any such statement is based. This presentation does not purport to summarize all of the conditions, risks and other attributes of MoonLake Immunotherapeutics.

Industry and Market Data

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.

Trademarks

This presentation may contain trademarks, service marks, trade names and copyrights of other companies, which are the property of their respective owners. Solely for convenience, some of the trademarks, service marks, trade names and copyrights referred to in this presentation may be listed without the TM, SM © or ® symbols, but we will assert, to the fullest extent under applicable law, the rights of the applicable owners, if any, to these trademarks, service marks, trade names and copyrights.



J. Santos da Silva PhD
(CEO, Founder)



Kristian Reich MD, PhD
(CSO, Founder)



Chris Ritchlin
MD, MPH



James Krueger
MD, PhD



Matthias Bodenstedt
(CFO)

Agenda

<i>Time</i>	<i>Topic (speaker)</i>
20'	Perspective on MoonLake (Jorge)
30'	KOL View: Hidradenitis Suppurativa (Jim)
30'	KOL View: Psoriatic Arthritis (Chris)
20'	Coffee Break
30'	Clinical Development Update (Kristian)
20'	Financial Overview & Guidance (Matthias)
5'	Closing Remarks

Perspective on MoonLake

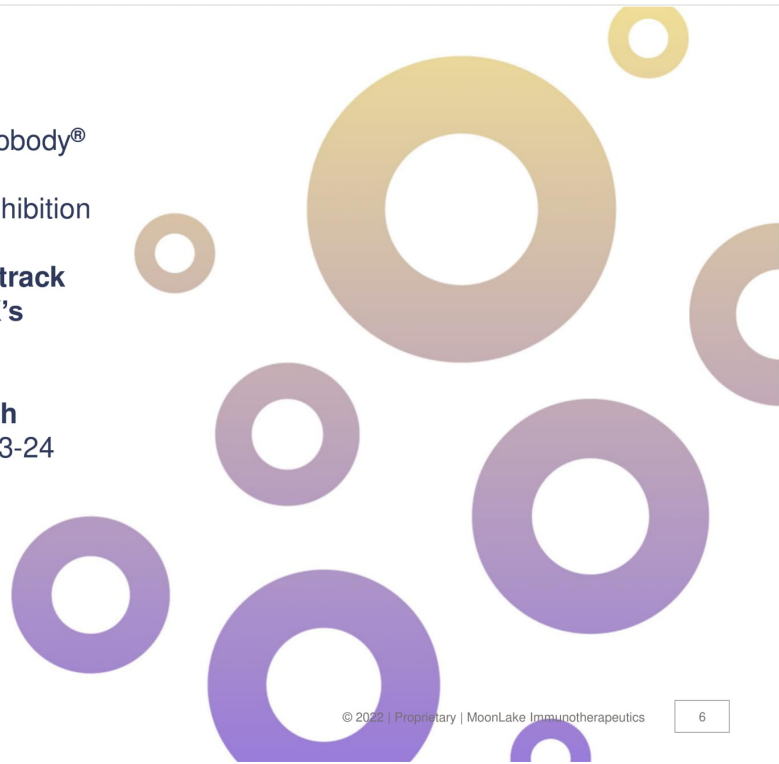




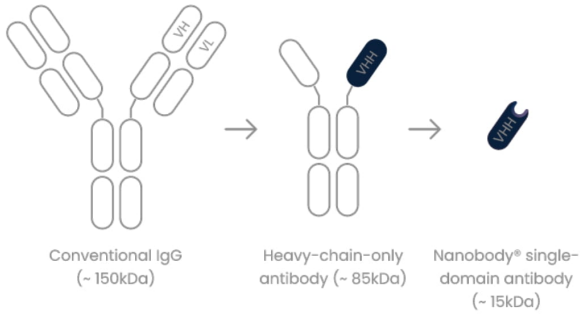
MoonLake

- **Founded in 2021** in Switzerland
- **Nanobody® technology** licensed in initial private round
- **Unique molecule & MoA with sonelokimab**, tri-specific IL-17A & IL-1F Nanobody®
- **Public on Nasdaq** in April 2022, with a raise of gross proceeds of \$150m (via SPAC deal)
- **Nearly \$200m raised** to date
- **Clinical phase company** – concluded phase 2b in psoriasis, additional phase 2 trials now (e.g., HS)
- **Experienced** team, board & investor group

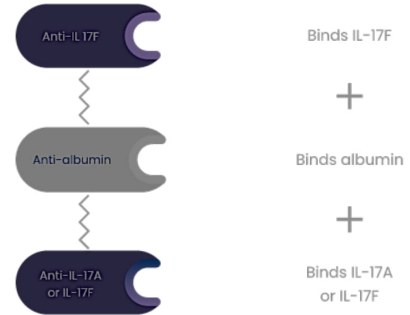
- 1** We are developing **sonelokimab (SLK)**, a Nanobody[®] with potential to elevate treatment outcomes in inflammatory diseases, via IL-17A and IL-17F inhibition
- 2** Our development program has an **established track record of clinical progress** and **expands SLK's potential** across Dermatology & Rheumatology
- 3** Our objective is to deliver a **product profile with optionality across large indications** from 2023-24 onwards, driven by a top-tier team



Nanobodies® are much smaller than traditional antibodies



They can be designed to have multiple and different binding domains



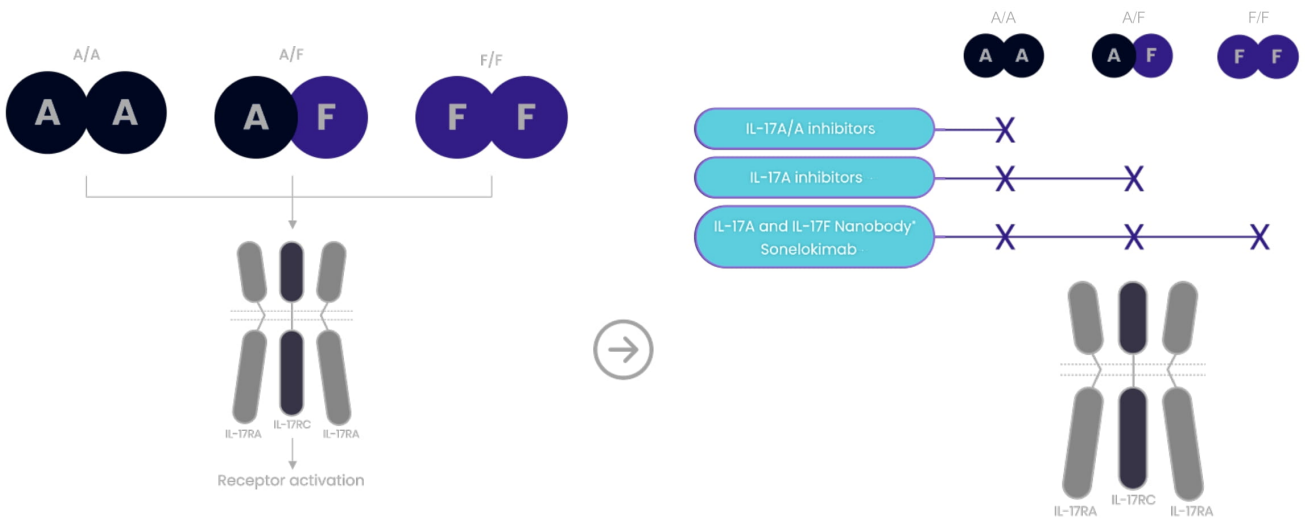
IL-17A & IL-17F

Sonelokimab is a ~40kDa humanized Nanobody® consisting of three VHH domains covalently linked by flexible spacers - around a quarter of the size of traditional antibodies

With 2 domains, it binds with high affinity to IL-17A and IL-17F – a third domain binds human albumin

Subcutaneous administration, Q4W

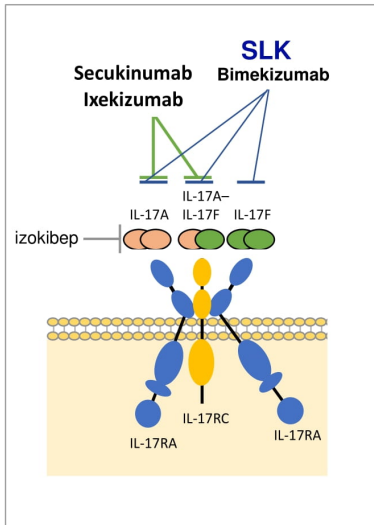
Illustrative



IL-17A and IL-17F function as dimers (A/A, A/F, or F/F) to drive inflammation through activation of the IL-17RA/RC receptor complex

Not all IL-17-targeting therapeutics can inhibit IL-17A/A, IL-17A/F and IL-17F/F dimers

The key MoA – IL-17 inhibition



The key molecules

Sonelokimab or “SLK”

- MoonLake’s molecule: the only tri-specific Nanobody®, ~3x smaller than a monoclonal antibody, one of only two drugs inhibiting all dimers of IL-17 (A/A, A/F and F/F)

Bimekizumab or “BKZ” (UCB)

- Alongside SLK the only other known molecule inhibiting dimers of IL-17 (A/A, A/F and F/F), recently shown to have leading Phase III efficacy in Psoriasis, high *Candidiasis*

Secukinumab (Cosentyx™, Novartis) or “SEC”

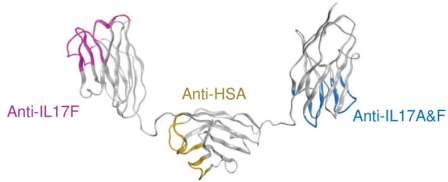
- IL-17 A-specific and does not inhibit IL-17 A/F and F/F dimers, reference IL17i drug in market & main comparator, sales in 2020 of \$5B+

Other molecules

TNFi, IL12/23i play a role in Psoriasis and other related diseases, with lower efficacy, and IL23i with efficacy mainly in Psoriasis; IZO is another small molecule but only IL-17A/A

Sonelokimab (SLK)

40 KDa



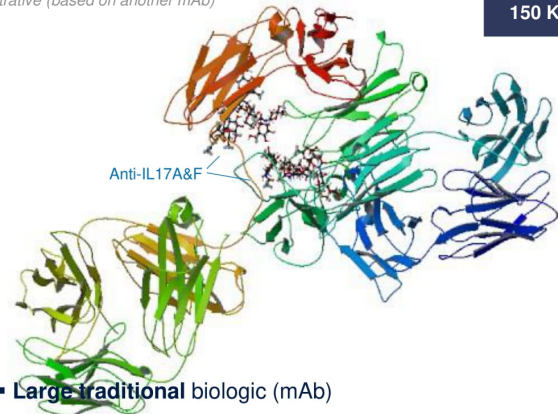
- **Smaller fully active** biologic
- **2x different** IL-17 binding domains
- **Independent Albumin** binding domain
- **Subcutaneous** dosing
- **Shorter** half-life and **differential** dimer inhibition

SOURCE: MoonLake

Bimekizumab (BKZ)

Illustrative (based on another mAb)

150 KDa

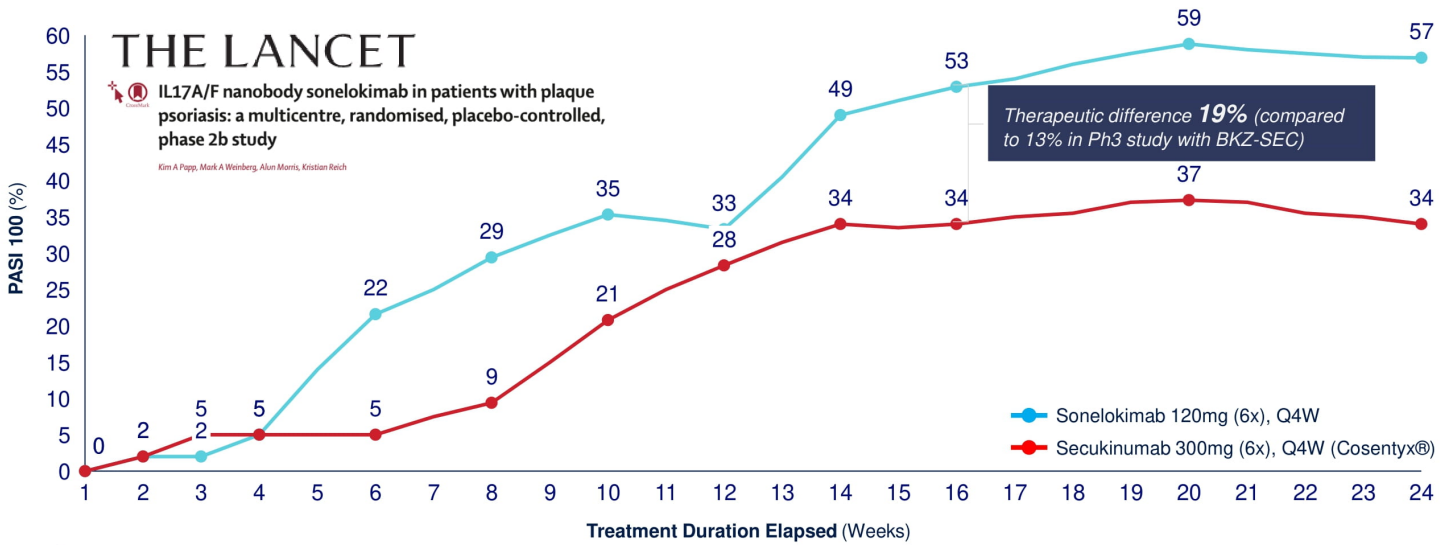


- **Large traditional** biologic (mAb)
- **1x** IL-17 binding domain (shared A & F)
- **No Albumin** binding domain
- **Subcutaneous** dosing
- **Longer** half-life and **similar** dimer inhibition

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Efficacy comparison between SLK and market leader Cosentyx in Phase II (%)



Differentiated and sustained SLK activity confirmed in 48wk extension trial (313 patients, plus 88 from Ph I)

PASI: Psoriasis Area and Severity Index
 SOURCE: Merck KGaA, Darmstadt, Germany, MoonLake

THE LANCET

IL17A/F nanobody sonelokimab in patients with plaque psoriasis: a multicentre, randomised, placebo-controlled, phase 2b study

Kim A Papp, Mark A Weinberg, Alun Morris, Kristian Reich

- **Encouraging overall safety** profile for SLK in the context of all other clinical trials testing biologics for Psoriasis
- Infection rates **similar** in comparison with Secukinumab or other IL-17 inhibitors¹
- **Candida rate similar** to those previously observed with IL-17 inhibitors
- **Candida rate 3-4x lower** than Bimekizumab, the only competitor product for IL-17A & F²

	Weeks 0-12					Weeks 12-52		
	Placebo group (n=52)	Sonelekimab 30 mg group (n=52)	Sonelekimab 60 mg group (n=52)	Sonelekimab 120 mg normal lead group (n=52)	Sonelekimab 120 mg augmented lead group (n=52)	All participants on sonelekimab (n=268)	Secukinumab 300 mg group (n=52)	All participants on secukinumab (n=251)
Treatment-emergent adverse event								
Any	22 (42.3%)	22 (42.3%)	25 (55.8%)	26 (49.3%)	30 (58.8%)	107 (31.4%)	26 (49.3%)	35 (68.6%)
Serious adverse events*	1 (1.9%)	2 (3.8%)	1 (1.9%)	1 (1.9%)	1 (2.0%)	5 (2.4%)	0	2 (3.9%)
Adverse events leading to treatment discontinuation**	0	0	0	1 (1.9%)	2 (3.9%)	3 (1.4%)	0	0
Death	0	0	0	0	0	0	0	1 (2.4%)
Common treatment-emergent adverse events†								
Nasopharyngitis	4 (7.7%)	4 (7.7%)	11 (21.2%)	9 (17.0%)	4 (7.8%)	28 (13.5%)	6 (11.3%)	7 (13.7%)
Pruritus	2 (3.8%)	3 (5.8%)	4 (7.7%)	3 (5.7%)	4 (7.8%)	14 (6.7%)	1 (1.9%)	–
Upper respiratory tract infection	1 (1.9%)	1 (1.9%)	3 (5.8%)	3 (5.7%)	2 (3.9%)	9 (4.3%)	3 (5.7%)	12 (4.8%)
Headache	1 (1.9%)	0	3 (5.8%)	3 (5.7%)	1 (2.0%)	7 (3.4%)	3 (5.7%)	–
Oral candidiasis‡	0	0	1 (1.9%)	2 (3.8%)	3 (5.9%)	6 (2.9%)	0	13 (5.2%)
Arthralgia	1 (1.9%)	3 (5.8%)	0	1 (1.9%)	2 (3.9%)	6 (2.9%)	0	–
Hypertension	2 (3.8%)	3 (5.8%)	1 (1.9%)	0	2 (3.9%)	6 (2.9%)	1 (1.9%)	–
Tonsillitis	–	–	–	–	–	–	–	1 (2.0%)
Diarrhoea	–	–	–	–	–	–	–	2 (3.9%)
Adverse events of special interest								
Any§	11 (21.2%)	11 (21.2%)	22 (42.3%)	17 (32.3%)	18 (35.3%)	68 (32.7%)	15 (28.8%)	23 (46.1%)
Infections	10 (19.2%)	8 (15.4%)	15 (28.8%)	15 (28.3%)	15 (29.4%)	57 (27.4%)	12 (22.6%)	21 (42.2%)
Candida	0	0	1 (1.9%)	2 (3.8%)	3 (5.9%)	6 (2.9%)	0	1 (2.0%)
Infections¶	0	0	0	0	0	0	0	2 (3.9%)
Major adverse cardiac events**	0	0	0	0	0	0	0	0
Inflammatory bowel disease	0	0	0	0	0	0	0	1 (2.0%)

Data are n (%). †See appendix 31 for information on specific events. ‡During weeks 0-12, common treatment-emergent adverse events were considered as those occurring in 3% or more of participants in any of the sonelekimab-containing groups, during weeks 12-52, common treatment-emergent adverse events were considered as those occurring in 3% of all participants in the 4 sonelekimab-containing groups combined. ††Events under preferred term of oral candidiasis for weeks 12-24, see adverse events of special interest for consolidated Candida assessment. †††Includes infections, injection site reactions, liver function test abnormalities, cardiovascular events, cytopenia, allergic or hypersensitivity reactions, malignancies, depression, and inflammatory bowel disease. ¶¶¶Has consolidation of adverse event terms to assess oral, oropharyngeal, and vaginal candidiasis (participants with oral candidiasis, Candida infection, oropharyngeal candidiasis, or vulvovaginal candidiasis). **Includes myocardial infarction, cerebrovascular accident or cardiovascular death.

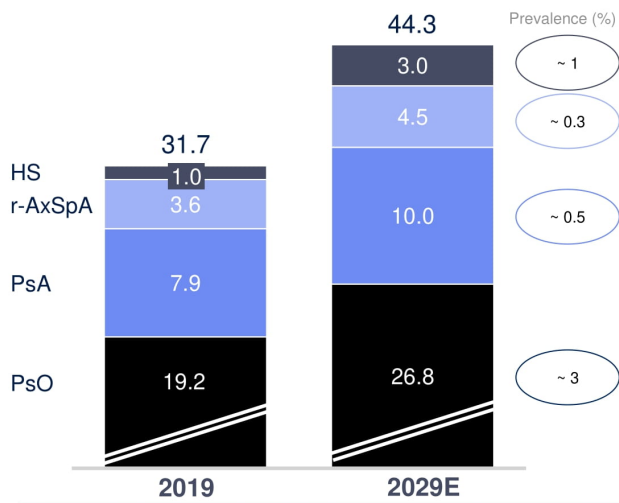
Table 3. Summary of safety and tolerability results at weeks 0-12 and 12-52 in the safety analysis population

Consult Table 3¹

1 Comparisons are not being made in the context of head-to-head trials. 2 Papp KA, Weinberg M, Morris A, Reich K. The Lancet. 2021;397(10284): 1564-1575

SOURCE: MoonLake Clinical Development and selected bibliography

Global sales
USD Bn



IL-17 and other innovative biologics are expected to grow at CAGR 2-3x the rate of the market overall, between 2019 and 2029

SOURCE: IQVIA, Clarivate's Market Forecast Assumptions file for Psoriasis – May 2021 (2019-2029, part of Disease Landscape & Forecast)
DRG's Market Forecast Assumptions file for Psoriatic Arthritis – January 2021 (2019-2029, part of Disease Landscape & Forecast)
DRG's Market Forecast Assumptions file for Axial Spondyloarthritis – January 2021 (2019-2029, part of Disease Landscape & Forecast)

Psoriatic Arthritis

- **Driven by IL-17s** with rates of 11%+ growth
- IL-23s falling short
- Mostly IL-17 (incl. IZO) and IL-23 development (also JAKs)



Hidradenitis Suppurativa

- **Driven by IL-17s** on base built by Adalimumab as only therapy
- Diverse targets (e.g., SEC, BKZ, Speso, Vilo, IZO, Berme)



Ankylosing Spondylitis (r-axSpA)

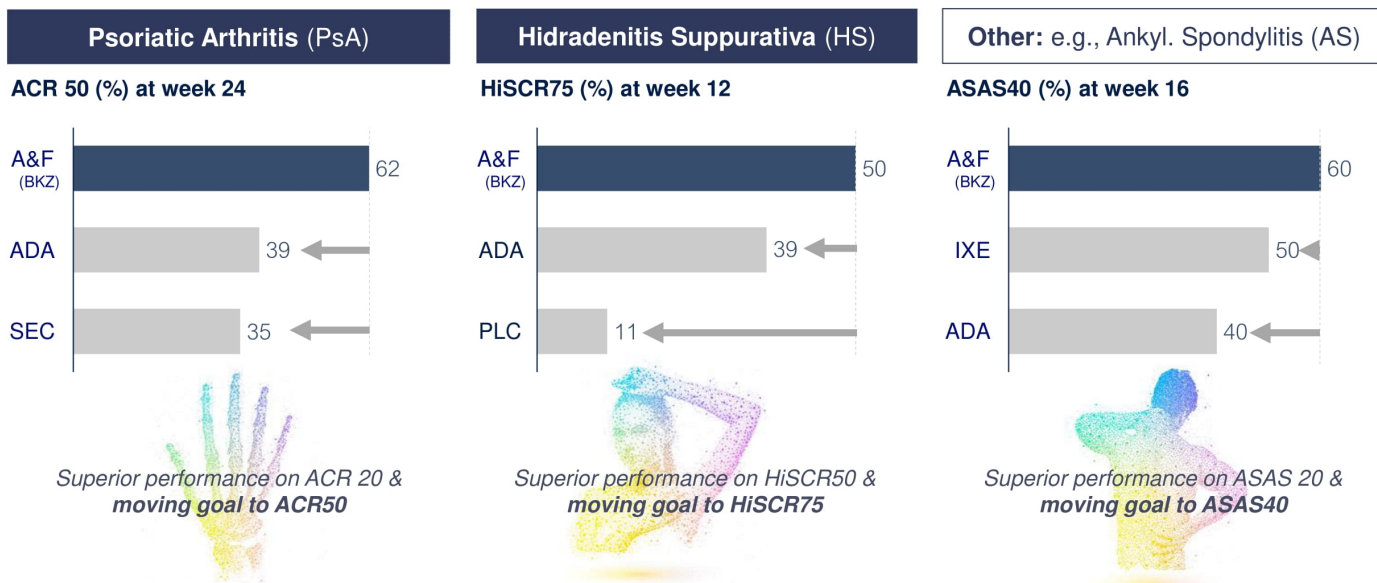
- **Driven by IL-17s** (20%+ growth) on base built by TNFs
- IL-23s failed



Psoriasis

- **Driven by newest IL-17** and IL-23 classes, eroding TNFs as the traditional class

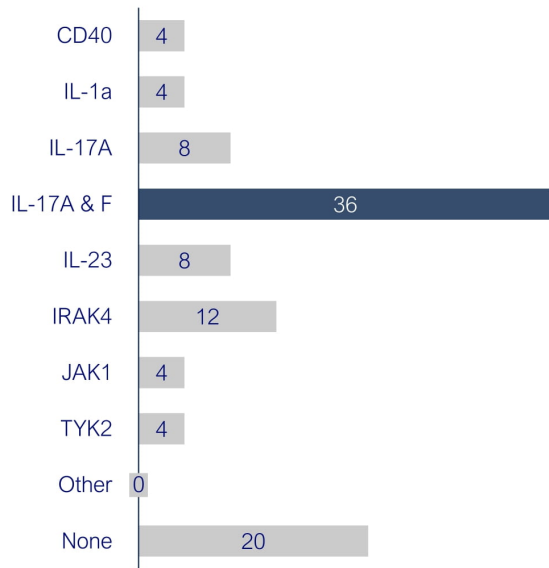




1 Ritchlin CT, et al. Lancet 2020;395:427-40; 2 Mease PJ, et al. Arthritis Rheum 2005;52:3279-89; 3 McInnes IB, et al. Lancet 2015;386:1137-46 4 van der Heijde D, et al. Ann Rheum Dis 2020;79:595-604 (approx. 11% TNFi experienced); 5 Dougados M, et al. Ann Rheum Dis 2020;79:176-185 (TNFi naive); 6 Jemec GB et al., presented at 9th Conference of the European Hidradenitis Suppurativa Foundation (EHSF) congress, 5-7 February 2020

SOURCE: MoonLake, selected references on clinical trial results; BKZ is phase 2, indirect comparator data PsA is phase 3; in AS, IXE and ADA is from direct comparator trials; in HS, all data is from one phase 2 study)

Best target in HS (survey Feb 2022, n=35, %)



SOURCE: Based on insight received by MoonLake management team in Q1 2022 in different events, Equity Research 2022, Cowen, Therapeutics Conference (2021), Health Conference 2022, UBS, LifeSci, Health

KOL views (Apr 2022)

MoA

- IL-17 now 1 of 3 established targets in HS – “no doubt the IL-17 drugs will come into use”
- “For higher levels of disease clearing, better activity with A&F inhibition”
- A/A and A/F are the most potent on driving IL-17 receptor activation – “increasing protein levels of F/F over A/A as time passes”
- A&F is superior as there may be tissue differences in the production of F – “inhibiting F good for resistance mechanism, fall off with SEC, IL-23”

MLTX

- “HiSCR 75 allows for more discrimination vs placebo, strengthens the study design– can say they have a higher endpoint than anyone. Smart”
- “Nanobody allows targeting multiple cytokines – very logical construction”
- “The size of the ensemble is much smaller so it may be better tissue penetration - where vascular supply isn’t great or you need to penetrate”
- “No active MoA to get an IgG ab into the joint space– the penetration ability of such a small drug may be very important in PsA, HS and others”
- “Not clear why Candidiasis is better (but we can speculate)”

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Hidradenitis suppurativa

Psoriatic arthritis

Main Competitors

Secukinumab (SUNRISE [NCT03713632] and SUNSHINE [NCT03713619]) IL-17A inhibitor (SC) Phase 3 N = 544 and N = 544 Efficacy, safety, dosing HISCR50, Wk 16 Q3 2022 	Bimekizumab (BE HEARD I [NCT04242446] and II [NCT04242498]) IL-17A and IL-17F inhibitor (SC) Phase 3 N = 490 and N = 509 Efficacy, safety, dosing HISCR50, Wk 16 Q2/Q3 2023 	Sonelokimab IL-17A and IL-17F inhibitor (SC) Phase 2 N = 220 and N = 891 Efficacy, safety, dosing HISCR75, Wk 12 Q2/Q3 2023
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Bimekizumab (BE COMPLETE [NCT03896581] and BE OPTIMAL [NCT03895203]) IL-17 A and IL-17F inhibitor (SC) Phase 3 N = 400 / N = 852 Efficacy and safety ACR50, Wk 16 Q1 2022 / Q3 2022 	Secukinumab (INVIGORATE 2 [NCT04209205]) IL-17 A inhibitor (IV) Phase 3 N = 380 Efficacy, safety and tolerability ACR50, Wk 16 Q2 2022 	Sonelokimab IL-17 A and IL-17F inhibitor (SC) Phase 2 N = 240 Efficacy, safety, dosing ACR50, Wk16 Q1 2024
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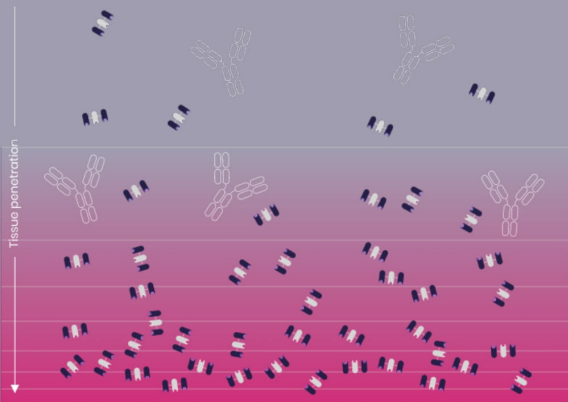
New molecules

PF-06700841, and PF-06826647 [NCT04092452] JAK1/TYK2 inhibitor/ TYK2 inhibitor (PO, QD) Phase 2 N = 192 Efficacy and safety HISCR50, Wk 16 Q1 2022 	Imsidolimab [NCT04856930] IL-36R inhibitor (SC) Phase 2 N = 120 Efficacy and safety Change from baseline AN count, Wk 16 Q2 2023 	Bermekimab (LYRA [NCT04988308]) IL-1 α inhibitor (SC) Phase 2 N = 290 Efficacy, dosing, and safety HISCR50, Wk 16 Q1 2024 	Izokibep IL-17A inhibitor (SC) Phase 2 31-week study (endpoints not disclosed to date, primary at Wk 16) 2024-2025
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Izokibep [NCT04713072] IL-17 A inhibitor (SC) Phase 2 N = 129 Efficacy, tolerability and safety ACR50, Wk 16 Q1 2022 	Upadacitinib SELECT-PsA 1 [NCT03104400] JAK inhibitor (PO) Phase 3 N = 1,705 Efficacy (DMARD failure), safety, and dosing ACR20, Wk 12 Q3 2024 	Deucravacitinib [NCT04908202] and [NCT04908188] TYK2 inhibitor (PO) Phase 3 N = 650 / N = 700 Efficacy and safety ACR20, Wk16 Q3 2024
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Other molecules in development include TNFs, IL-23s, IL17-As, JAKs etc.

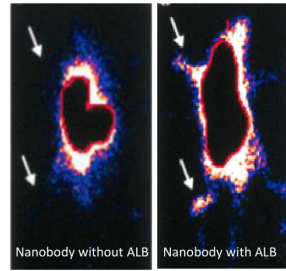
Inflammatory diseases are often characterized by difficult-to-reach tissues



The smaller size of sonelokimab compared with traditional antibodies may enable improved tissue penetration

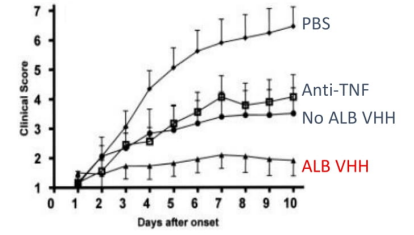
SOURCE: MoonLake Corporate

Albumin binding matters in inflammation



24 h after iv nanobodies; Effects of anti-tumor necrosis factor (anti-TNF) VHH protein constructs on the clinical progression of established collagen-induced arthritis (CIA)

Coppieters K et al., Arthritis Rheum 54, 1856-66 (2006)



Sonelokimab's albumin-binding domain may provide a mechanism for enrichment at sites of chronic inflammation

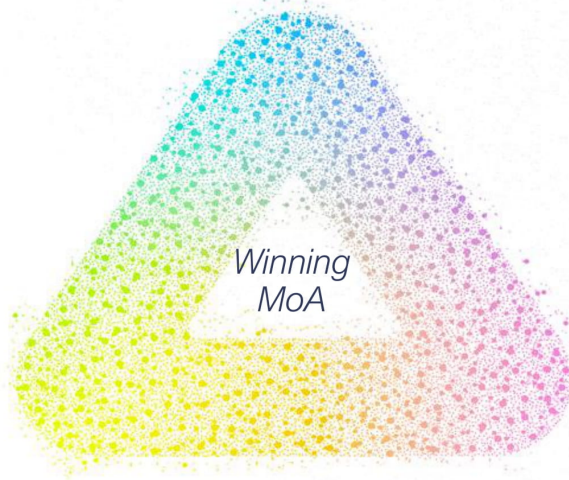
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Safety

"IL-17A & F inhibition without the infections"

Affinity

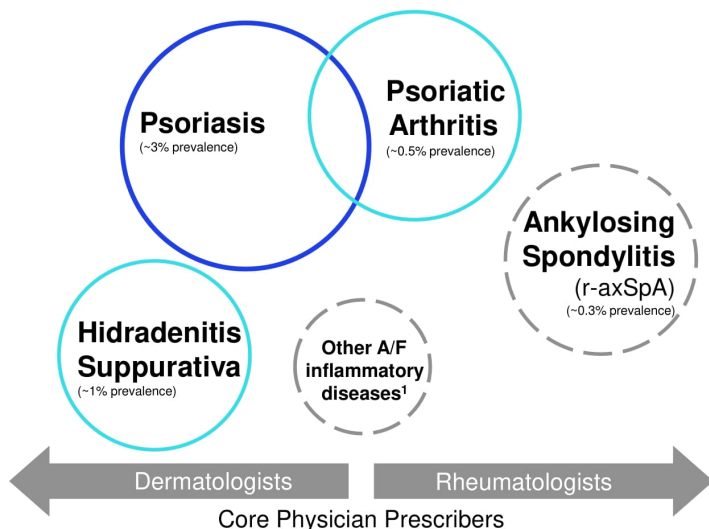
"Strong on A, balanced on F"



Penetration

"3x smaller + Albumin binding"

Immediate portfolio of indications for SLK



Drug activity in Psoriasis is proven: First Nanobody® showing improvement of standard of care (Cosentyx™), published in *The Lancet* – supports advancement to PhIII

Significant potential beyond Psoriasis:

- 1. Upside is exciting:** by building on additional diseases that open a market that is 2x larger than Psoriasis (in the aggregate), we provide optionality that can de-risk investment
- 2. Significant unmet needs beyond Psoriasis:** A and F inhibition showing differentiated activity in diseases that are undertreated and show far fewer treatments options
- 3. Foundation can be even stronger:** We plan to generate more data where SLK can realistically beat BKZ (beyond better benefit-risk, also penetration in joints and deep skin), and get the time to create a robust SLK supply

1 Other indications that are being considered by MoonLake, but not prioritized for the Phase 2 model now, include: non-radiographic axial SpondyloArthritis (nr-axSpA), Palmoplantar pustulosis (PPP), generalized pustular psoriasis (GPP), severe pyoderma gangrenosum (SPG)
 SOURCE: Nguyen et al. J Eur Acad Dermatol Venereol. 2021; Ingram. Br J Dermatol. 2020; Scotti et al. Semin Arthritis Rheum. 2018; Ogdie et al. Rheumatology (Oxford). 2013; Tekin et al. J Rheumatol. 2019; Alinaghi et al. J Am Acad Dermatol. 2019; Reich et al. Br J Dermatol. 2009; Gelfand et al. Arch Dermatol. 2005; Augustin et al. Acta Derm Venereol. 2010; Stolwijk et al. Arthritis Care Res. 2016; Dean et al. Rheumatology. 2014



SLK shows a potentially superior **benefit-risk** profile in Psoriasis (incl. vs BKZ)

SLK is a distinctive molecule with **enhanced enrichment in deep skin & joints** and binding of targets with **better-than-mAb affinity and specificity** – a potentially winning **benefit-risk profile** across **IL-17A & F diseases** (de-risked by BKZ)

Approach to clinical design

- MoonLake advancing global, large Phase 2 trials in Dermatology and Rheumatology
- First trials started was for Hidradenitis Suppurativa, a disease with very high unmet need; PsA to start Q3/Q4
- Trials illustrate our preferred approach:
 - Larger size than usual with several arms
 - “Pivotal” designs to accelerate for well-planned superiority Phase 3s, including dosing options
 - Always inclusive of Placebo AND active control (namely Humira) to plan Phase 3 and already mark differences to a “soon-to-be” global biosimilar
 - Higher treatment goal as PE (e.g., HiSCR75, ACR 50) to distinguish SLK, increase delta to placebo
- Reading out in 2023 and 2024

Global Phase 2 program

Hidradenitis suppurativa	<ul style="list-style-type: none"> • Start date: Apr/May 2022 • MIRA trial (M1095-HS-201; NCT05322473) • 210 patients • 60 sites (US and Europe) • First catalyst: mid-2023 
Psoriatic Arthritis	<ul style="list-style-type: none"> • Start date: Sep/Oct 2022 • xxx trial (M1095-PSA-201; NCTxxx) • 200 patients • xx sites (US and Europe) • First catalyst: end-2023 
Other	<p><i>Not currently pursued in Global program, incl. AS</i></p>

More details in our Clinical Development and Financial sessions

Leadership team



Jorge Santos da Silva
(CEO, Founder, Board Director)



Prof. Kristian Reich
(CSO, Founder)



Matthias Bodenstedt
(CFO)



Nuala Brennan
(CCDO)



Oliver Daltrop
(CTO)

*150+ yrs experience in Immunology
Plus, 25 FTE at MoonLake today*

Board of Directors



Kara Lassen
(Roche)



Catherine Moukheibir
(e.g., Oxford Biomedica)



Simon Sturge – Chair
(e.g., Kymab, Merck)



Spike Loy
(BVF)



Andrew Phillips
(Cormorant)

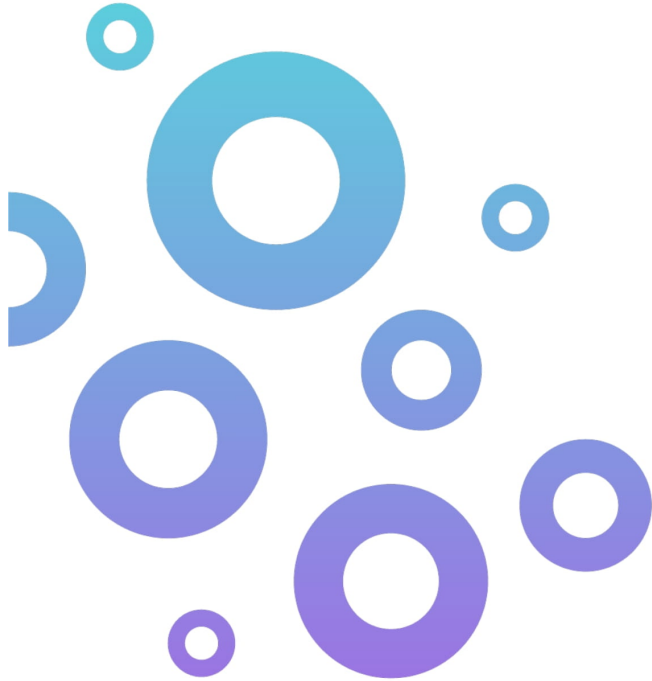


Ramnik Xavier
(Harvard)

Investors in de-SPAC



Note: Investors mentioned are based on the preliminary Prospectus filed on Form S1-A with the SEC on May 2, 2022 and the Revised definitive proxy soliciting materials filed on Form DEFR14A with the SEC on March 4, 2022
SOURCE: MoonLake Corporate



SOURCE: MoonLake Corporate

- MoonLake is well on its way as a public biotech, one year after being founded
- The innovative Nanobody® sonelokimab is a promising (and largely de-risked) molecule with the potential to revolutionize care
- It moves the clinical paradigm beyond traditional antibodies, to directly target inflammation sites and penetrate difficult-to-reach tissues
- Our global clinical program aims to unlock the value of the Nanobody® across a \$4bn+ market, in HS and PsA
- Highly experienced investors, Board and team are advancing to clinical catalysts in 2023, with a very robust financial position

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The KOL view

Hidradenitis Suppurativa



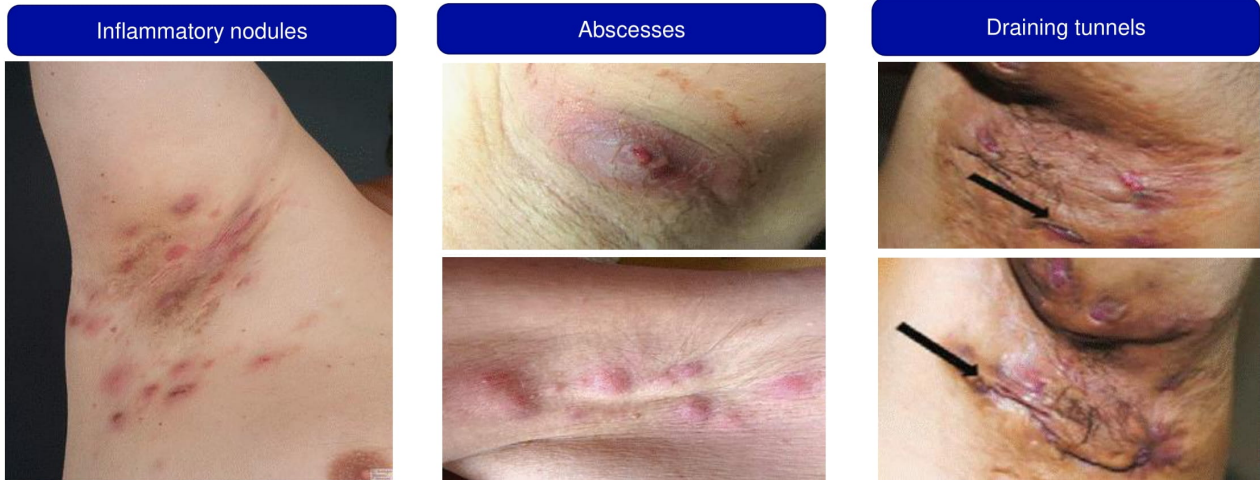
Evolving Pathways & Therapeutic Landscape in Hidradenitis Suppurativa

Professor James G. Krueger (MD, PhD)

D. Martin Carter Professor in Clinical Investigation
Senior Attending Physician and Laboratory Head, Investigative Dermatology
Co-director, Center for Clinical and Translational Science
Chief Executive Officer, The Rockefeller University Hospital, New York City,
NY, USA



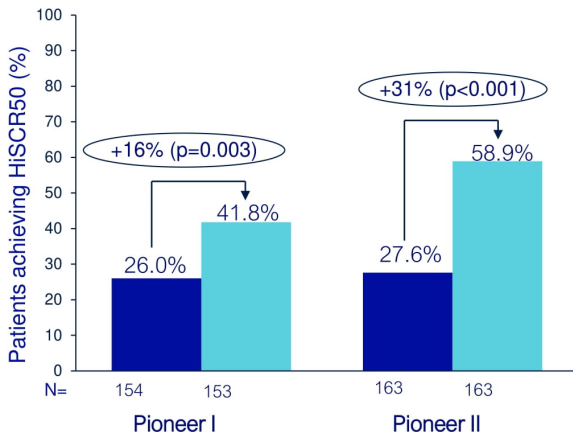
- HS is characterized by inflammatory nodules and abscesses complicated by the formation of pus-discharging dermal tunnels¹



- High symptom burden; chronic pain, large amounts of purulent secretions, malodor, and fatigue¹
- Profound impact on patients lives and contributes to a significant deterioration in physical and mental health²

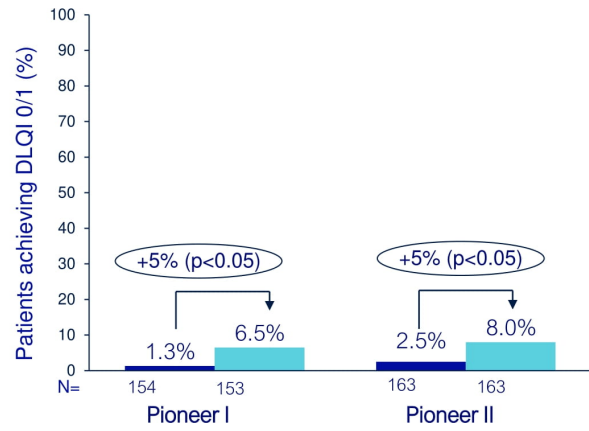
■ Placebo ■ Adalimumab 40mg weekly

Adalimumab Week 12 HiSCR50 responses¹



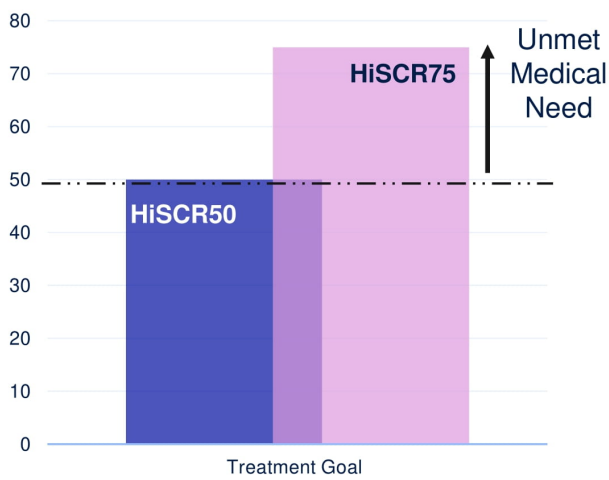
HiSCR50 = At least 50% reduction from baseline in AN count (inflammatory nodules and abscesses), with no increase from baseline in abscess or draining tunnels

Adalimumab Week 12 DLQI 0/1 responses¹



DLQI 0/1 = 'No effect' on quality of life from skin disease as measured by Dermatology Life Quality Index (DLQI)

ADA: adalimumab
SOURCE: (1) Kimball AB, et al. *N Engl J Med.* 2016; 375:422-34



- Majority of clinical trials in HS aim for HiSCR50 as primary endpoint
- Treatment goals in HS are low compared with psoriasis e.g. HiSCR50 vs. PASI90

HiSCR

- % reduction from baseline in AN count (**inflammatory nodules and abscesses**), with no increase from baseline in abscess or draining tunnels

IHS4

- Number of **nodules (x1)** + number of **abscesses (x2)** + number of **draining tunnels (x4)**

- Patients perceive draining tunnels as the inflammatory lesion with the greatest negative impact on their lives^{1,2}
- HiSCR is focused on inflammatory nodules and abscesses and does not capture impact on draining tunnels
- IHS4 is a <n instrument accounting for draining tunnels in addition to inflammatory nodules and abscesses that can be used in conjunction with HiSCR³

SOURCE: (1) Garg A, et al. J Am Acad Dermatol. 2020; 82:366–76; (2) Thorlacius L, et al. Br J Dermatol. 2018; 179:642–650; (3) Zouboulis C, et al. Br J Dermatol. 2017; 177:1401-1409

Category	Agent	Target	Phase	NCT	Primary endpoint
Monoclonal antibody	Secukinumab	IL-17A	3	NCT03713632 NCT03713619	HiSCR50 (primary endpoint met, data to be reported)
	Bimekizumab	IL-17A and IL-17F	3	NCT04242446 NCT04242498	HiSCR50
	Bermekimab	IL-1 α	2	NCT04988308	HiSCR50
	Guselkumab	IL-23p19	2	NCT03628924	HiSCR50 (primary endpoint not met)
	Vilobelimab	C5a	2	NCT03487276	HiSCR50 (primary endpoint not met)
Nanobody	Sonelokimab	IL-17A and IL-17F	2	NCT05322473	HiSCR75
Antibody mimetic	Izokibep	IL-17A/A	2	NCT05355805	HiSCR50
Small molecule inhibitor	INCB054707	JAK-1	2	NCT04476043	Mean change in total AN count

No animal models of HS exist, making delineation of the key pathways driving disease pathogenesis challenging

Multiple molecules are being explored in the clinic with diverse targets

Therapeutic successes/failures are helping decipher key pathways underpinning disease – **bedside to bench approach**

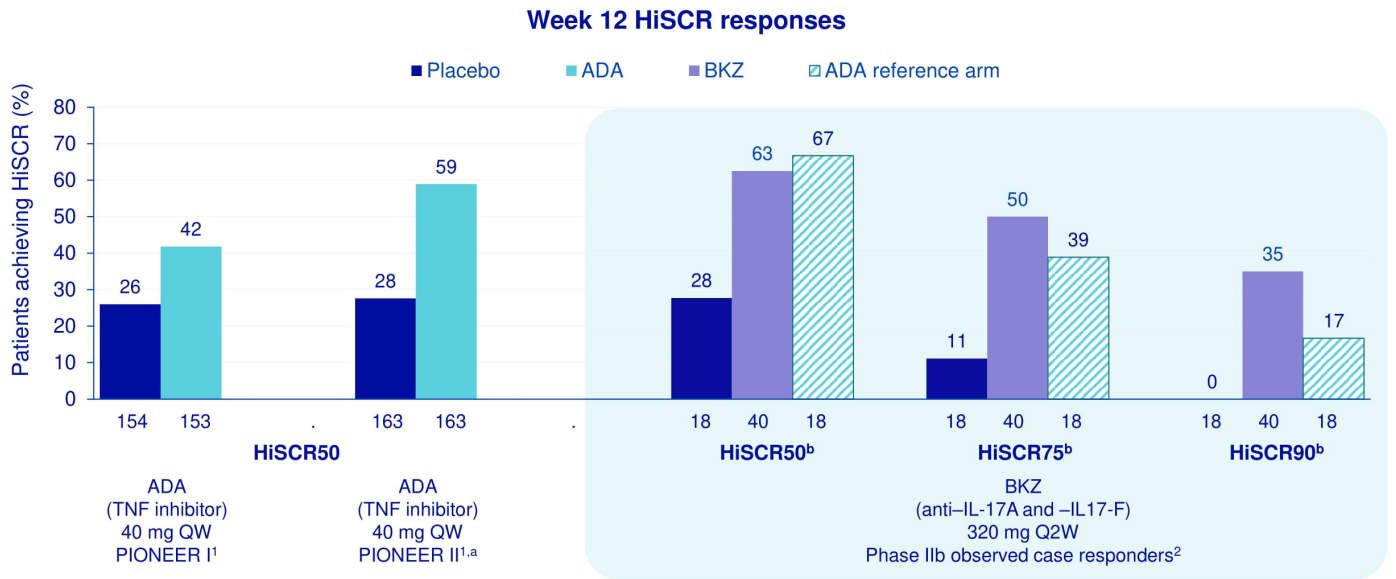
IL-17 inhibition furthest advanced both from a clinical & molecular perspective

Other targets in development include and not limited to; IL-36R, CD40, IL-1 α /IL-1 β
SOURCE: Clinicaltrials.gov

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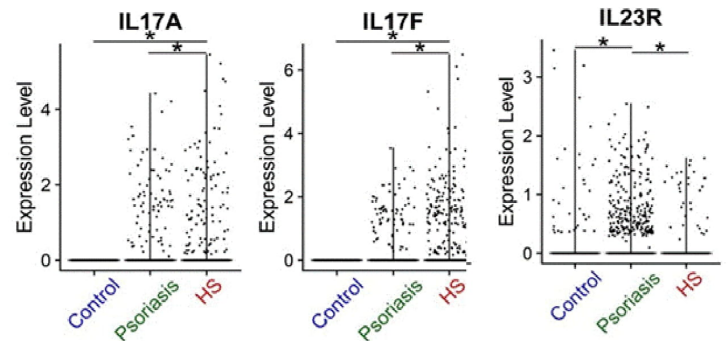
Inhibition of IL-17A and IL-17F has the potential to reach a greater threshold of clinical response (HiSCR75, HiSCR90)



¹PIONEER II allowed concomitant antibiotic use; ²Observed case responders at Week 12.
 ADA, adalimumab; BKZ, bimekizumab; HiSCR, Hidradenitis Suppurativa Clinical Response; QW, every week; Q2W, every 2 weeks; TNF, tumor necrosis factor.
 SOURCE: (1) Kimball AB, *et al. N Engl J Med.* 2016; 375:422-34; (2) Giatt S, *et al. JAMA Dermatol.* 2021; 157:1279-88.

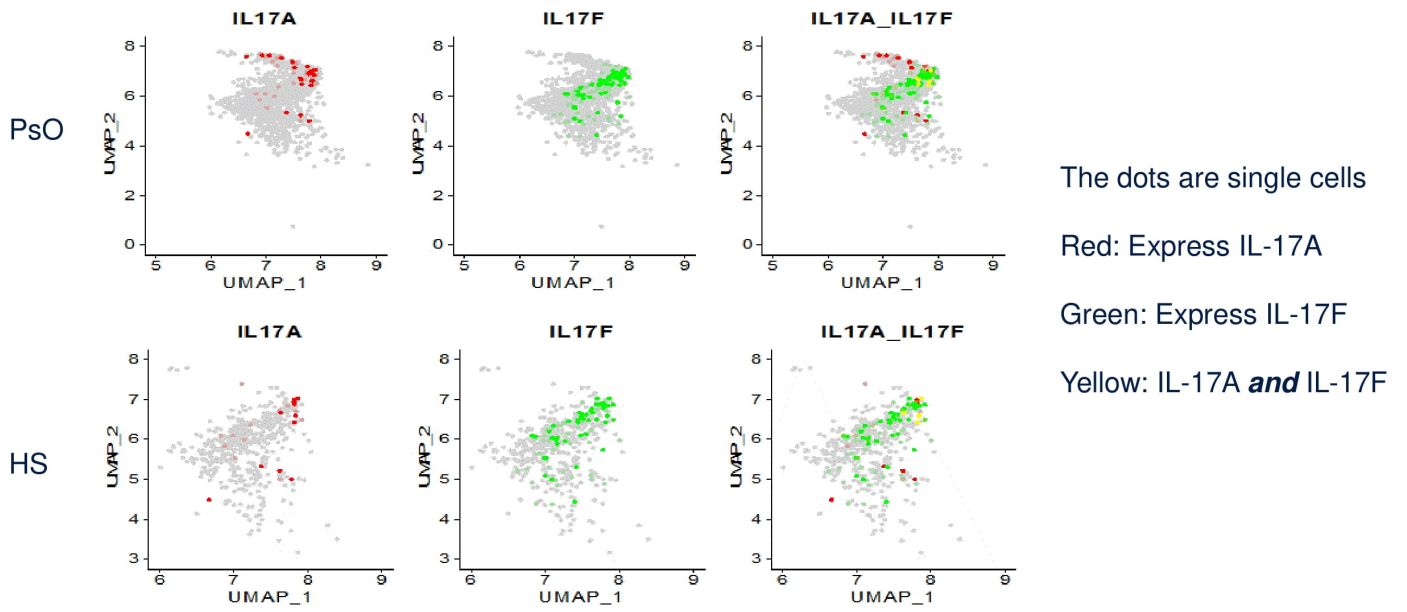
IL-17A and IL-17F expressing cells abundant in HS⁴

- Elevated serum IL-17 levels in patients with HS¹⁻³
- Upregulation of IL-17A and IL-17F mRNA in HS tissue¹⁻³
- Compared with Psoriasis;
 - More cells express IL-17F in HS⁴
 - Fewer cells express IL-23R in HS⁴



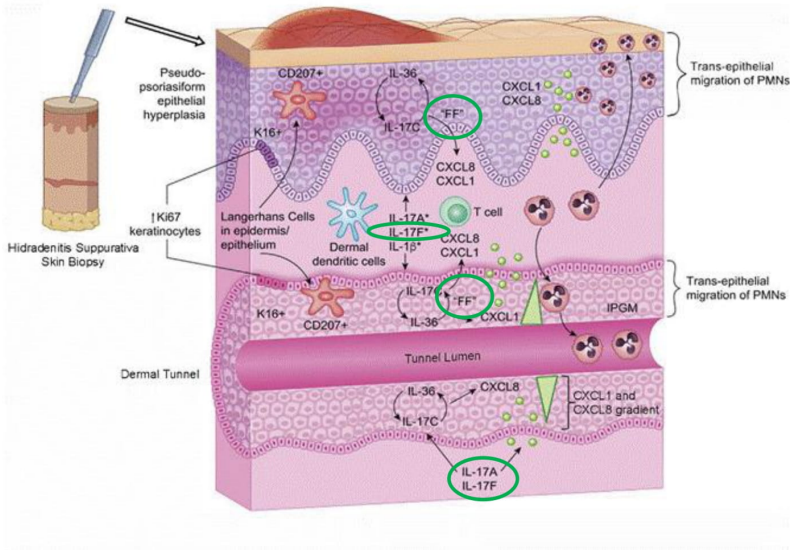
Each dot represents a single cell

In HS, there is a predominance towards Type17 T-cells that discretely produce IL-17F compared to IL-17A¹

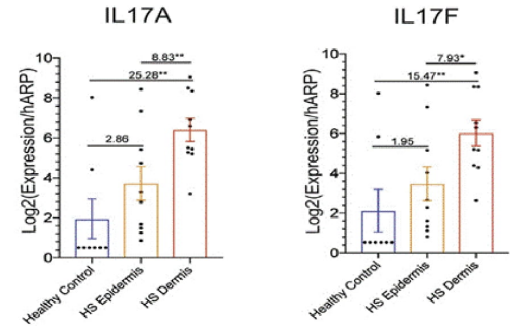


SOURCE: (1) Jaewhan K. et al., Society of Investigative Dermatology 2022; Abstract (807)

IL-17F is present throughout HS lesions



Draining tunnels are deep HS lesions that express IL-17A and IL-17F¹

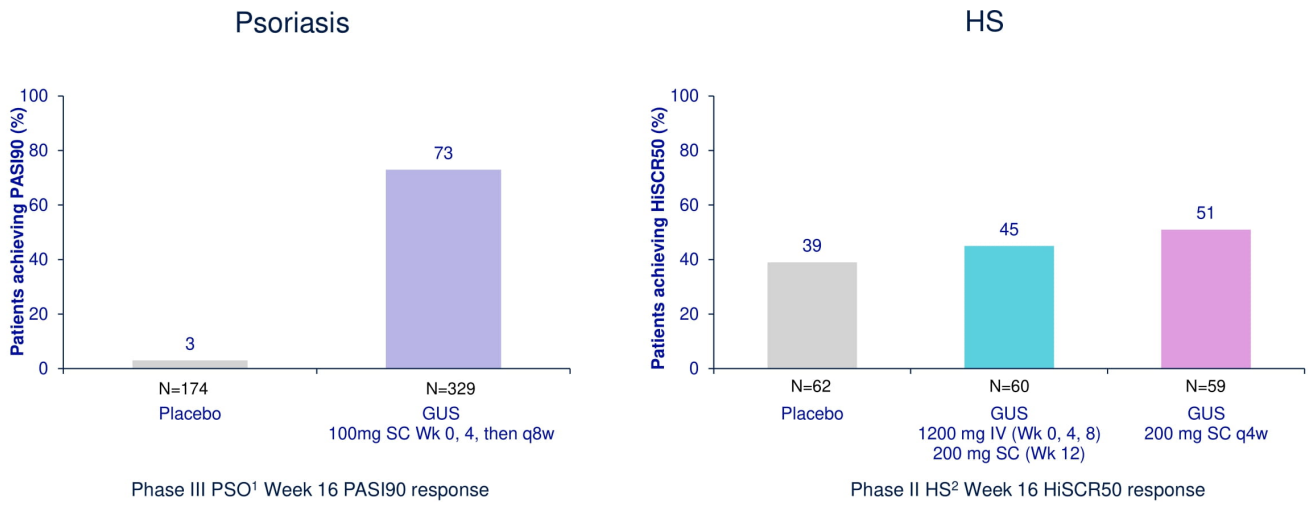


Inhibition of IL17 signaling in patients using the IL-17RA antagonist brodalumab¹ results in a significant decrease in

- 1) HS Lesion thickness
- 2) Tunnel wall diameter
- 3) Tunnel Inflammation

SOURCE: (1) Navrazhina KJW, et al. J Allergy Clin Immunol. 2021; 147:2213–24.

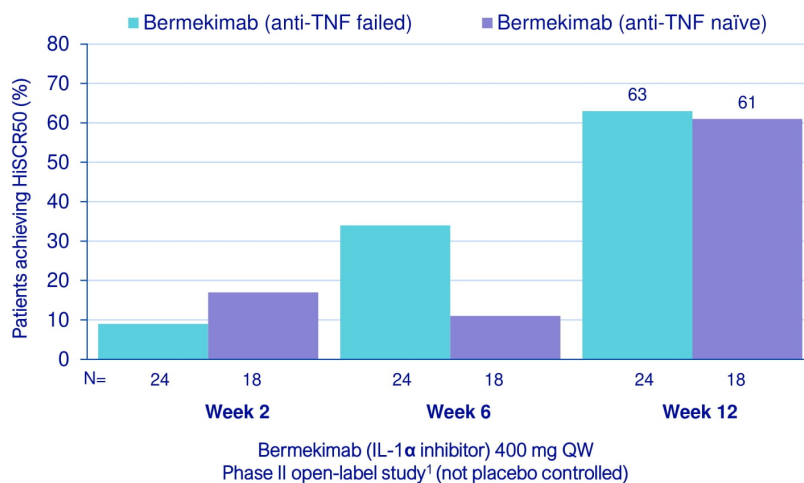
Guselkumab (IL-23p19 inhibitor)



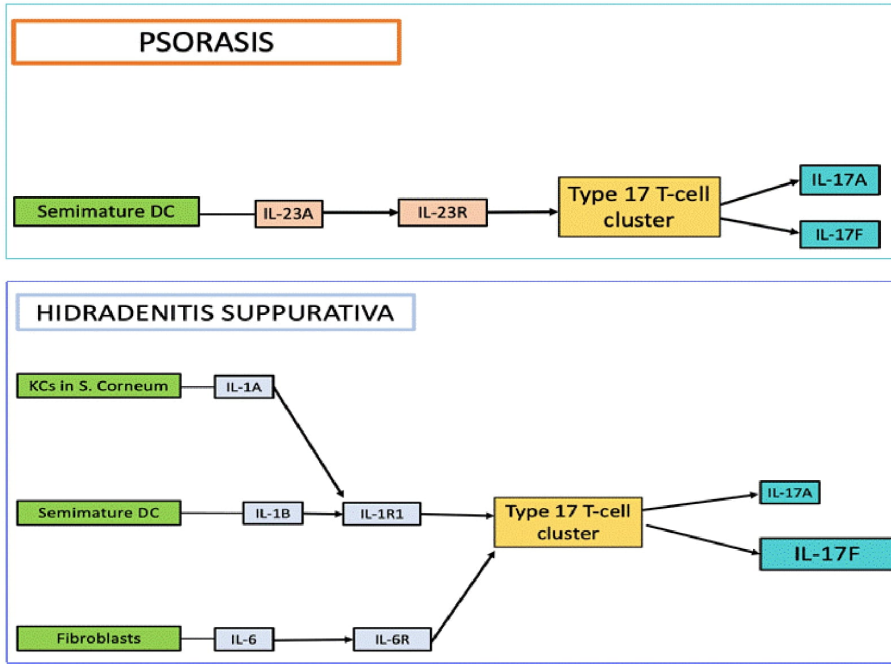
Pathogenic T cells in HS may be regulated independently of IL-23

GUS: guselkumab
SOURCE: (1) Blauvelt A et al. J Am Acad Dermatol. 2017;76(3):405-417; (2) NCT03628924

Biology of IL-1 α in HS still unclear



SOURCE: (1) Gottlieb A, et al. J Invest Dermatol. 2020; 140:1538–1545



1. Need for higher treatment goals in HS and measurement of tunnels
2. IL-17F is the dominant cytokine in HS
3. IL-1 α role and potential in HS still unclear
4. IL-23p19 inhibition failed; may have limited role in HS relative to psoriasis

Which pathway would you pick?

TNF- α

Established pathway in HS

IL-17A and IL-17F

Several data sets supporting IL-17 targeting: Secukinumab, Bimekizumab and Brodalumab

- Secukinumab met Phase 3 primary endpoint (HiSCR50)
- Bimekizumab Phase 3 close to completion
- Brodalumab impact on tunnel-associated inflammation/drainage
- Clinical evidence from IL-17i match insights from basic & molecular biology

IL-1 α

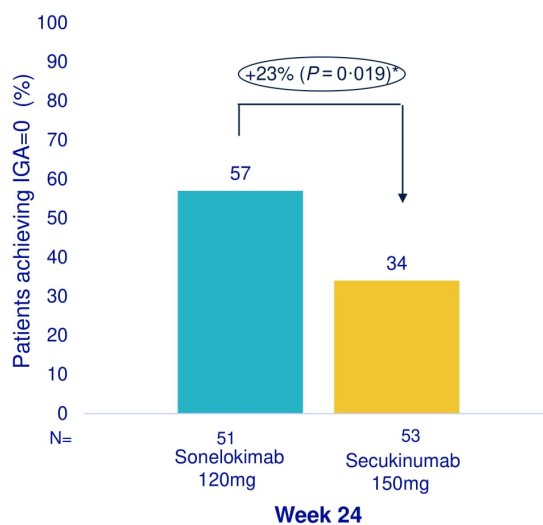
More data needed: clinical and molecular

Sonelokimab



- **Smaller size vs. monoclonal antibodies**
- **2x different** IL-17 binding domains
- **Independent Albumin** binding domain

Complete Clearance Psoriasis¹ Phase 2b



*Nominal P
SOURCE: (1) Reich K, et al. Br J Dermatol. 2022; DOI: 10.1111/bjd.21617

The KOL view

Psoriatic Arthritis



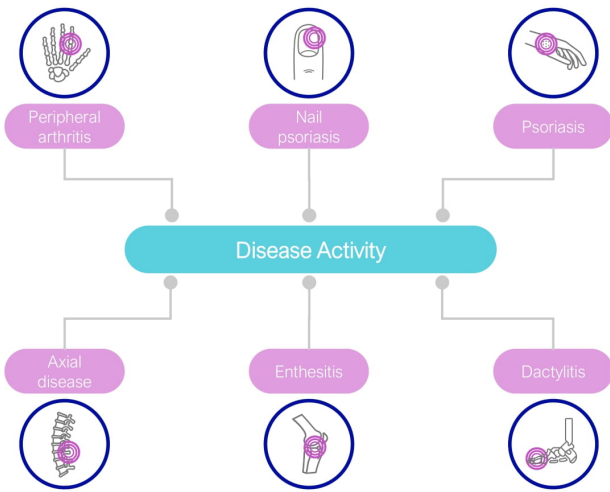
Psoriatic Arthritis: The latest view

Professor Christopher Ritchlin (M.D, MPH)

University of Rochester Medical Center,
Rochester, New York, USA

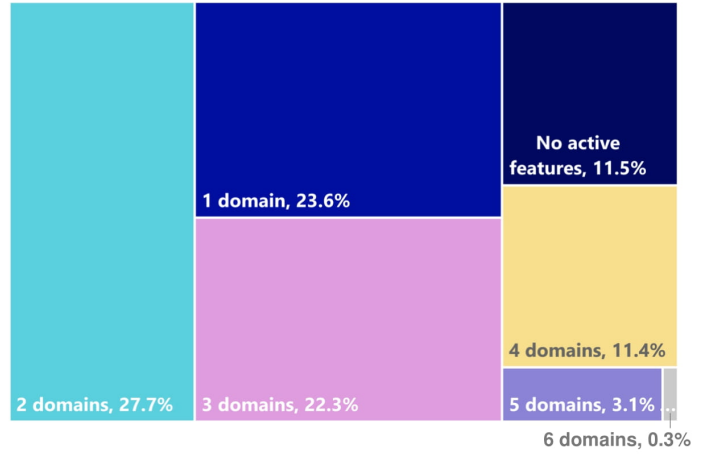


The clinical features of PsA are diverse, comprising both musculoskeletal and non-musculoskeletal manifestations¹



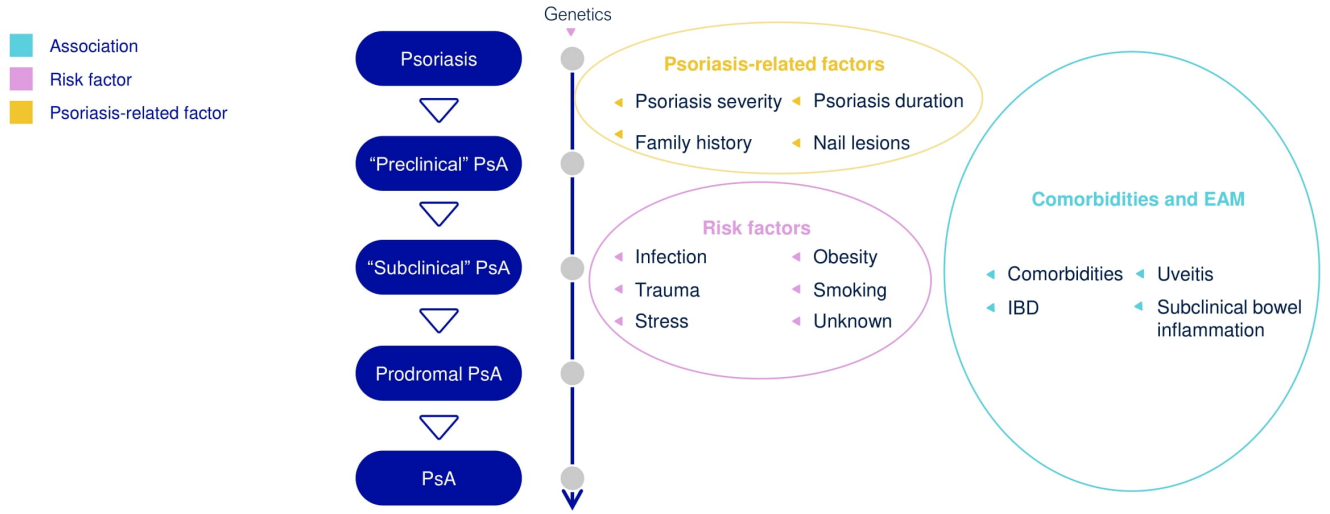
Most patients with PsA have multi-domain disease involvement²

Frequency of active PsA domain presentations
(CorEvitas/CORRONA registry, N = 2,617)



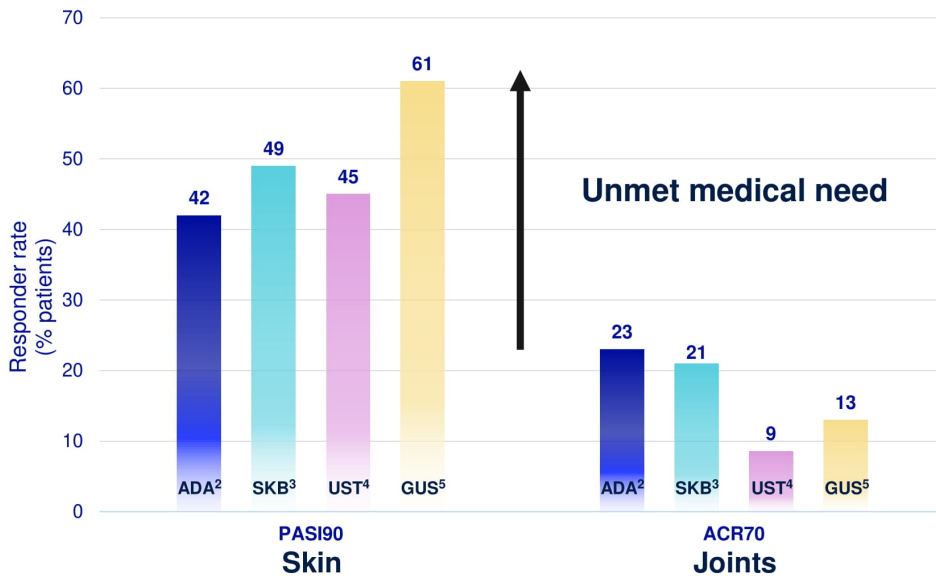
PsA, psoriatic arthritis.
Figure adapted from FitzGerald O, et al. Nat Rev Dis Primers. 2021;12:7-59.
SOURCE:(1) Ogdie A, et al. Rheumatology (Oxford). 2020;59(Suppl 1):37-46; (2) Ogdie, A. et al. J Rheum. 2021;48:698-706

PsA affects up to 30% of patients with psoriasis¹ and involves a complex interaction of risk factors, psoriasis-related factors, and associations with comorbidities and EAMs²



IBD, inflammatory bowel disease; EAM, extra-articular manifestation; PsA, psoriatic arthritis
 Figure adapted from Karmacharya P, et al. Best Pract Res Clin Rheum. 2021;35:101692
 SOURCE: (1) FitzGerald O, et al. Nat Rev Dis Primers. 2021;12:7:59; (2) Karmacharya P, et al. Best Pract Res Clin Rheum. 2021;35:101692

Oral Small Molecule	<ul style="list-style-type: none">• methotrexate, sulfasalazine, cyclosporine, leflunomide, apremilast
TNFi	<ul style="list-style-type: none">• etanercept, infliximab, adalimumab, golimumab, certolizumab pegol
IL12/23i	<ul style="list-style-type: none">• ustekinumab
IL17i	<ul style="list-style-type: none">• secukinumab, ixekizumab
CTLA4-Ig	<ul style="list-style-type: none">• abatacept
JAK inhibitor	<ul style="list-style-type: none">• tofacitinib, upadacitinib
IL23i	<ul style="list-style-type: none">• guselkumab, rizankizumab

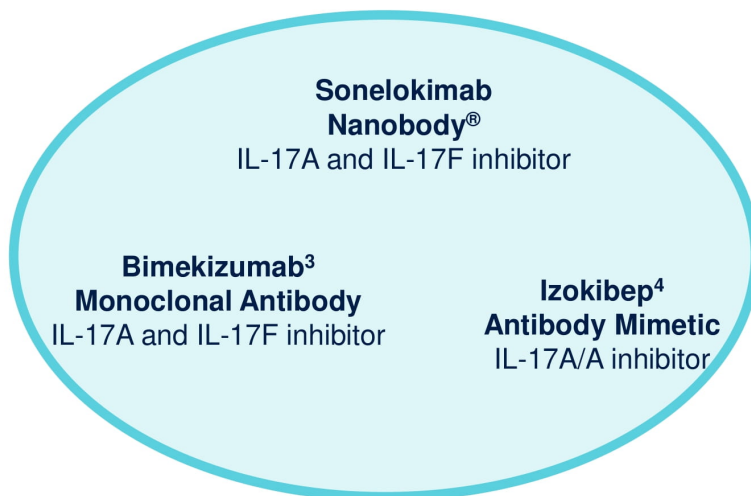


Divergent skin vs. tissues responses driven by:

- 1) Tissue penetration?
- 2) Differential cytokine expression profiles across skin vs. joints?

All timepoints at Week 24. Not head-to-head comparisons; for illustrative purposes only.
ACR, American Society of Rheumatology score; ADA, adalimumab; GUS, guselkumab; PASI, Psoriasis Area and Severity Index; SKB, secukinumab; UST, ustekinumab.
SOURCE: (1) FitzGerald O, et al. Nat Rev Dis Primers. 2021;12:7:59; (2) Mease PJ, et al. Arthritis Rheum. 2005;52:3279-3289; (3) McInnes IB, et al. Lancet. 2015;386:1137-1146; (4) Ritchlin C, et al. Ann Rheum Dis. 2014;73:990-999 (and supplementary data); (5) Mease PJ, et al. Lancet. 2020;395:1126-1136; (6) Scher JU, et al. Arthritis Rheumatol. 2021;73:1574-1576;

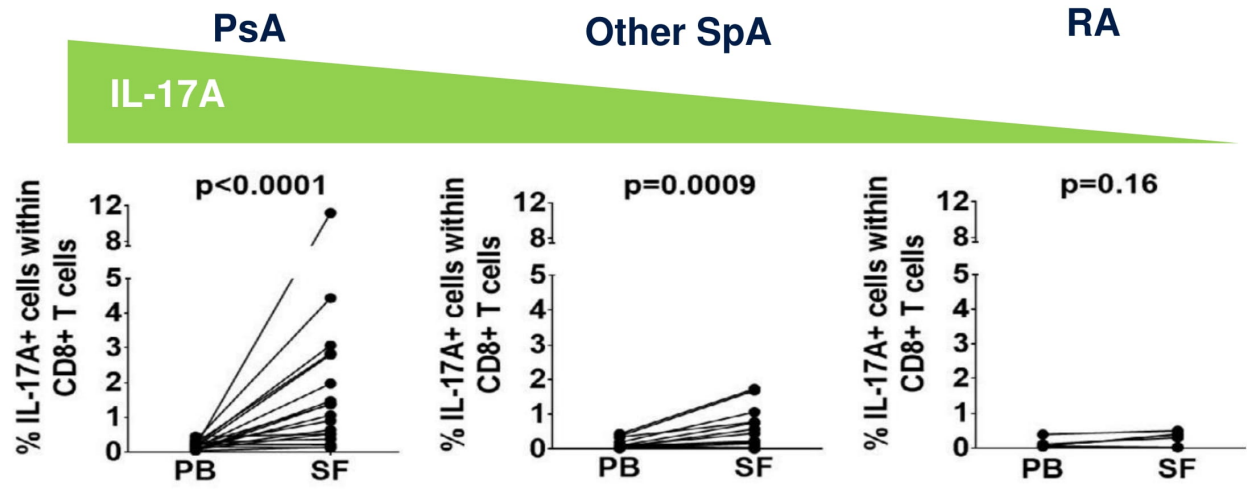
Deucravacitinib¹
Small Molecule
TYK2 inhibitor



Tildrakizumab²
Monoclonal Antibody
IL-23p19 inhibitor

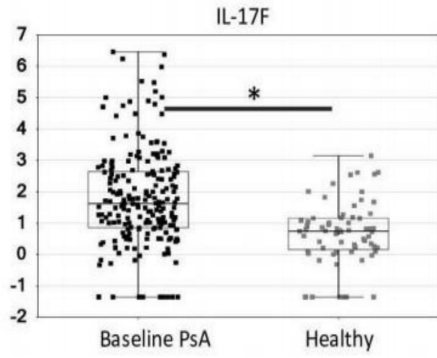
Several IL-17s in development all with different physical chemical properties

SOURCE: (1) Mease et al. *Ann Rheum Dis*. 2022 Jun;81(6):815-822; (2) Mease et al. *Ann Rheum Dis* 2021 Sep;80(9):1147-1157; (3) Ritchlin CT, et al. *Lancet* 2020;395:427-40; (4) Behrens F, Taylor PC, Wetzels D, et al. Abstract presented at EULAR 2022. [OP0258]

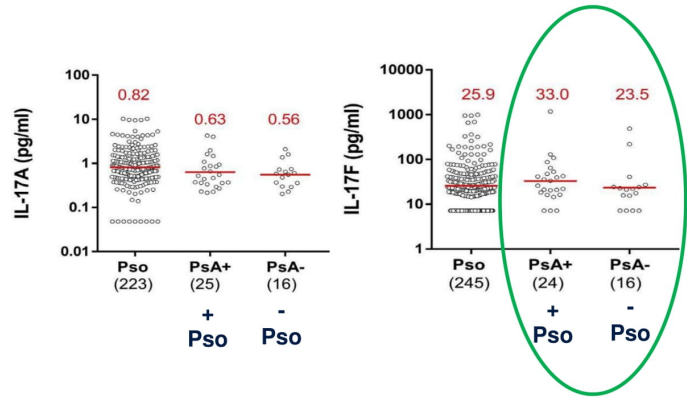


PB; Peripheral Blood; SF; Synovial Fluid
SOURCE: Adapted from Steel et al. Arthritis Rheumatol. 2020; 72:3-435-447

Baseline levels of IL-17F in patients with PsA compared with matched healthy controls from clinical studies¹

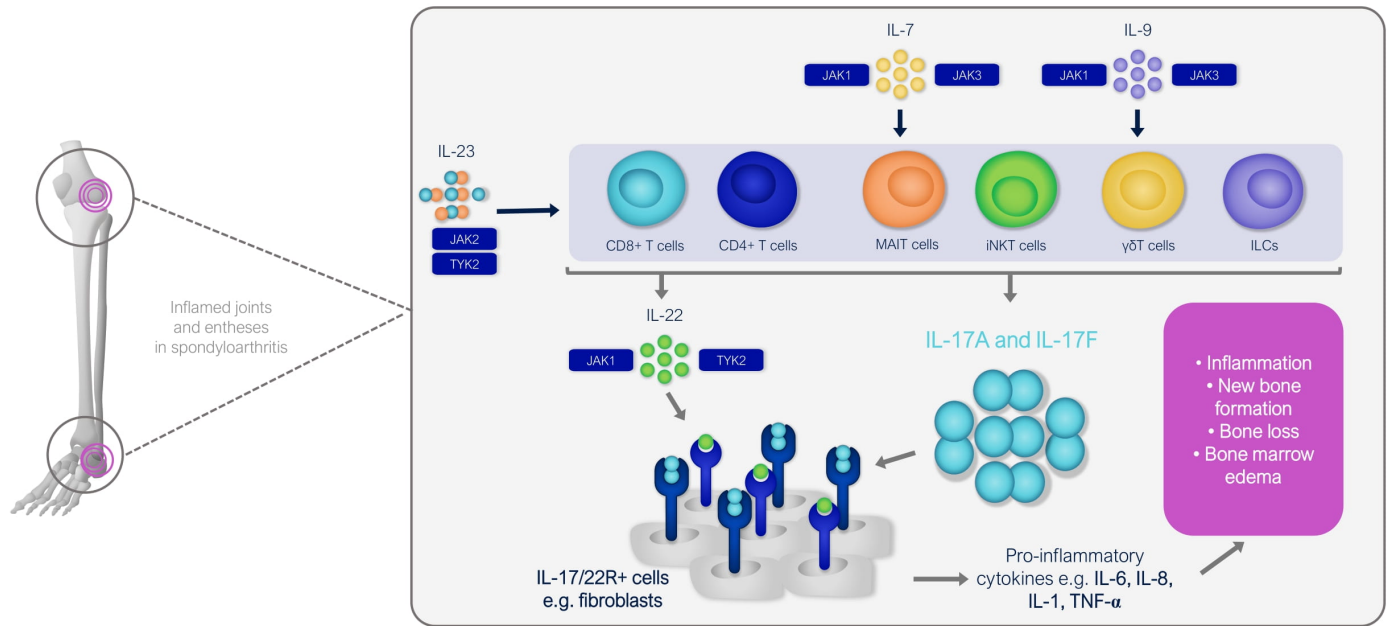


Baseline levels of IL-17A and IL-17F in patients with Psoriasis compared with PsA with and without Psoriasis cross different clinical studies²



Pso: Psoriasis
 SOURCE: (1) Sweet K, et al. RMD Open. 2021 May;7(2):e001679. doi: 10.1136/rmdopen-2021-001679; (2) Kolbinger F, et al. J Allergy Clin Immunol 2017;139:923-32

IL-17 plays a central role in the pathophysiology of PsA and can be expressed by multiple cell types independently of IL-23

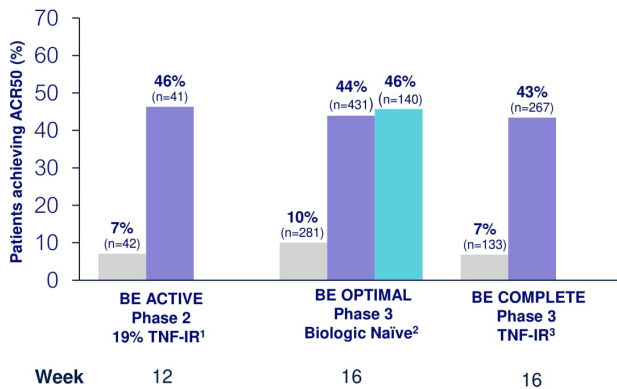


CD, cluster of differentiation; ILC, innate lymphoid cell; iNKT, invariant natural killer T; JAK, janus kinase; MAIT, mucosal-associated invariant T; TYK, tyrosine kinase.
 SOURCE: Adapted from O'Brien-Gore, et al. Curr Rheumatol Rep. 2021;23:40.

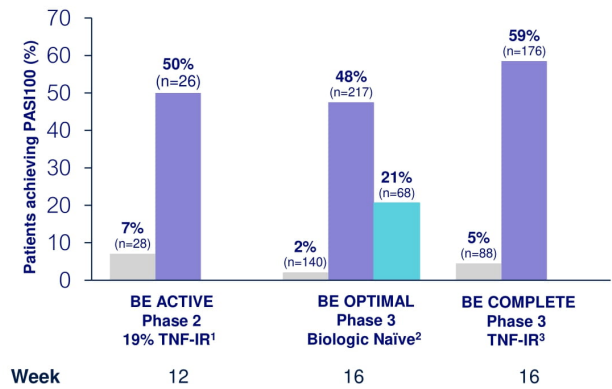
Bimekizumab demonstrates efficacy in PsA with strengths on skin manifestations

Placebo Bimekizumab Adalimumab

Bimekizumab ACR50 response rates by trial, %



Bimekizumab PASI100 response rates by trial, %



Bimekizumab was well tolerated with no unexpected safety findings
Candida Infections 2.6% (Week 16)^{2,3}

SOURCE: (1) Ritchlin CT, et al. Lancet 2020;395:427-40; (2) McInnes I, Coates L, Landewé RBM, et al. Abstract presented at EULAR 2022. [LB0001]; (3) Merola JF, McInnes I, Ritchlin CT, et al. Abstract presented at EULAR 2022. [OP0255];

Recent Izokibep data raises questions about the drivers of efficacy in joint disease

■ Placebo ■ Bimekizumab ■ Izokibep (80mg Q2W)

Bimekizumab- Phase 3

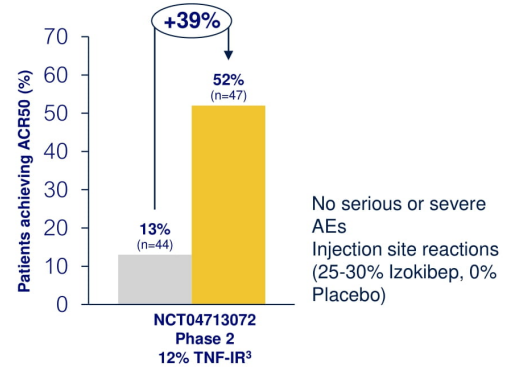
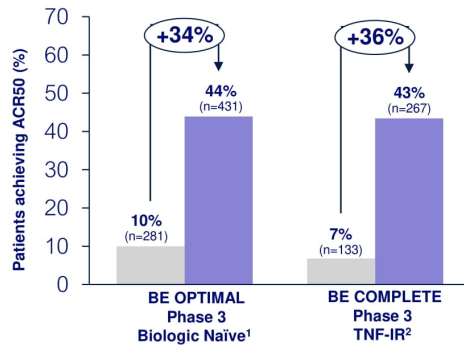
Product characteristics

- IL-17A and IL-F inhibitor
- Traditional monoclonal antibody (~150kDa)

Izokibep- Phase 2

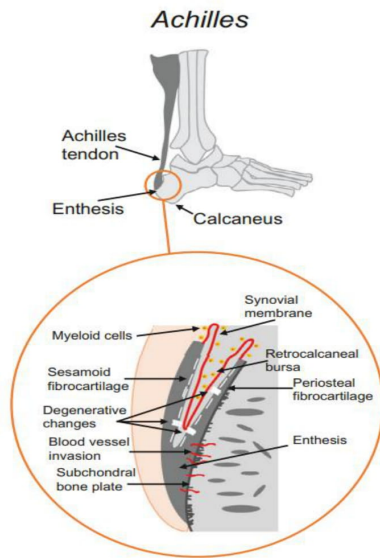
- IL-17A/A inhibitor
- Antibody Mimetic (~18 kDa)
- Albumin binding domain

ACR50 response rate



SOURCE: (1) McInnes I, Coates L, Landewé RBM, et al. Abstract presented at EULAR 2022. [LB0001]; (2) Merola JF, McInnes I, Ritchlin CT, et al. Abstract presented at EULAR 2022. [OP0255]; (3) Behrens F, Taylor PC, Wetzel D, et al. Abstract presented at EULAR 2022. [OP0258]

Enthesitis is inflammation of the enthesis, the sites where tendons insert into bone¹



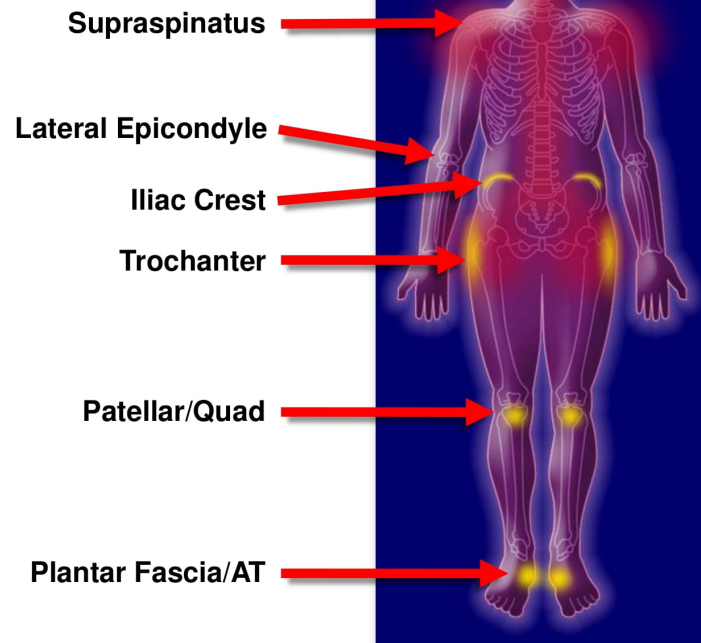
- Enthesitis is a key feature of PsA, occurring in a third of patients²
- Presence of enthesitis has shown to be associated with higher disease activity, disability and incapacity to work, ultimately leading to profound impact on patients lives
- The entheses are avascular in nature³, difficult to treat and a positive clinical effect on enthesitis and associated pain may serve as a good indicator of drug tissue penetration
- Resolution of enthesitis is an important treatment goal in PsA

SOURCE: (1) McGonagle et al. / Seminars in Arthritis and Rheumatism 51(2021)11471161; (2) Polachek A, Li S, Chandran V, Gladman DD. Arthritis Care Res (Hoboken) 2017;69:1685–91. (3) McGonagle D. Arthritis Rheum 2007;56(8):2482

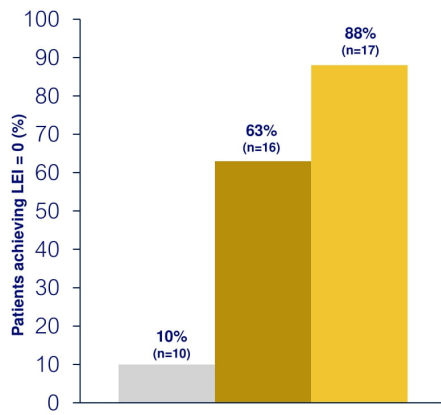
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Where exactly are the entheses?



Izokibep Enthesitis Resolution¹ Leeds Enthesitis Index =0 (LEI=0)



Week 16 NCT04713072, Phase 2, 12% TNF-IR¹

Placebo Izokibep (40mg Q2W) Izokibep (80mg Q2W)

Recent data support the relevance of tissue penetration in the treatment of enthesitis

Small sub-groups; as observed data*

*FAS, observed data for LEI > 0 at baseline, N = 43 (32%) - Post Hoc Analysis
SOURCE: (1) Behrens F, Taylor PC, Wetzel D, et al. Abstract presented at EULAR 2022. [OP0258]

1. PsA is a complex heterogenous disease that requires a complete solution
2. IL-17A and IL-17F are central to PsA pathophysiology
3. Several IL-17s in development all with different physical chemical properties
4. Recent data releases at EULAR highlight the importance of IL-17A and IL-17F targeting in PsA

Very recent data from EULAR with IL-17-inhibitors in development prompt the following questions;

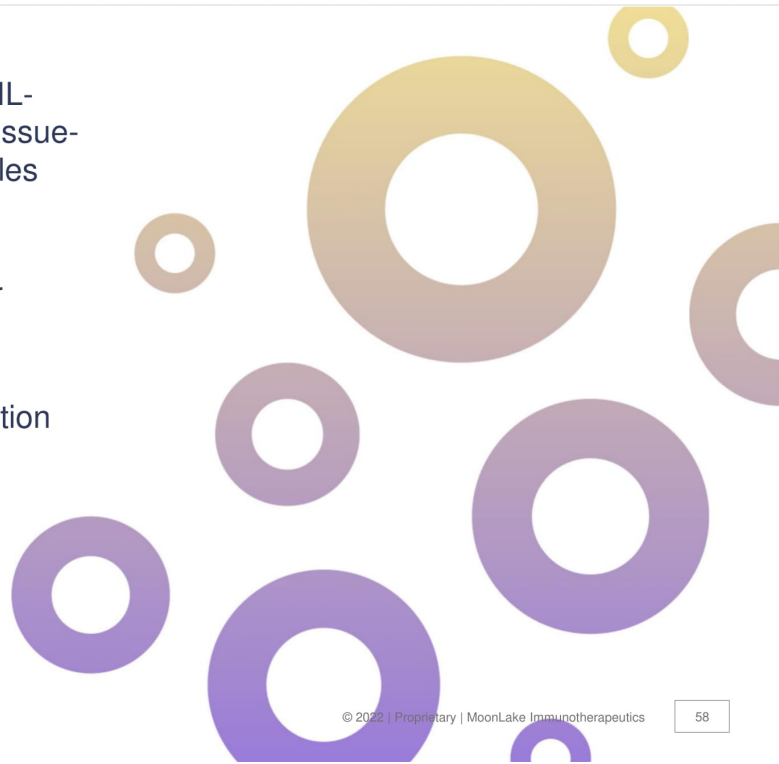
Can we optimize IL-17A and IL-17F inhibition?

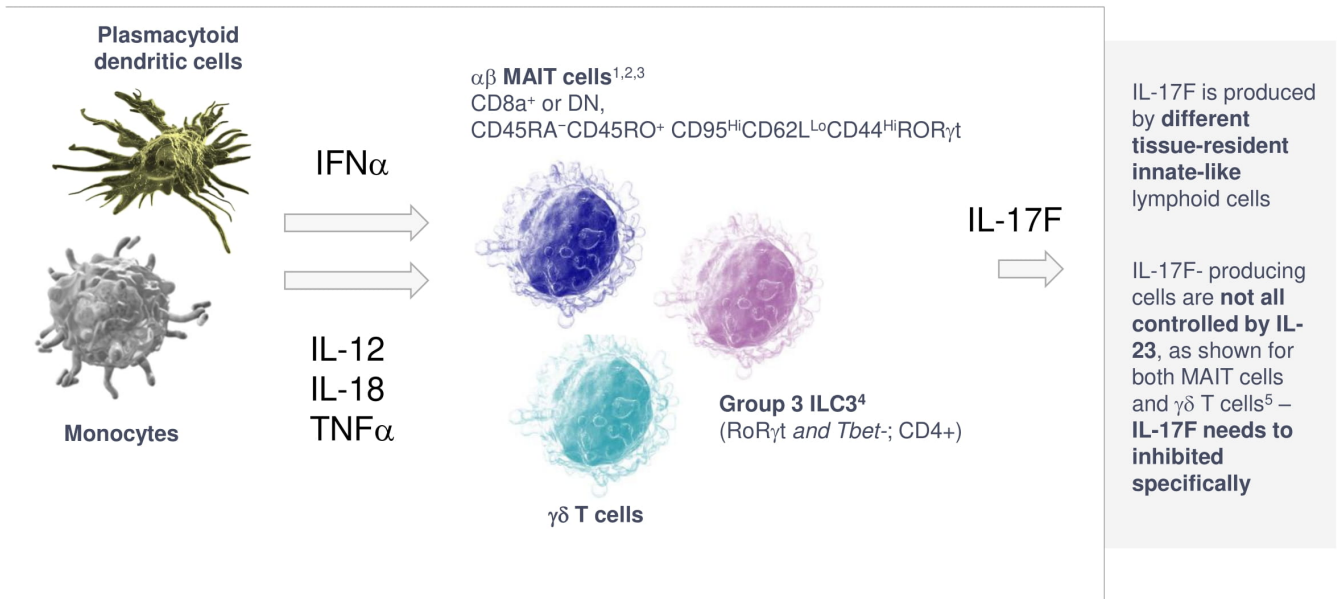
Are there certain molecule characteristics e.g size and albumin binding that could make a molecule specifically successful in PsA?

Clinical Development Update



- 1** The KOL views clearly point to key role for IL-17A & F inhibition, as well as the need for tissue-penetrant and targeted high-affinity molecules
- 2** A unique role for IL-17F in skin and joint inflammation, that can now be managed for long-term disease control with SLK
- 3** Continued focus on skin and joint inflammation with MLTX's HS and PsA clinical trials
- 4** Innovative 24-week phase 2 programs with read-outs expected in Q3 and Q4/2023

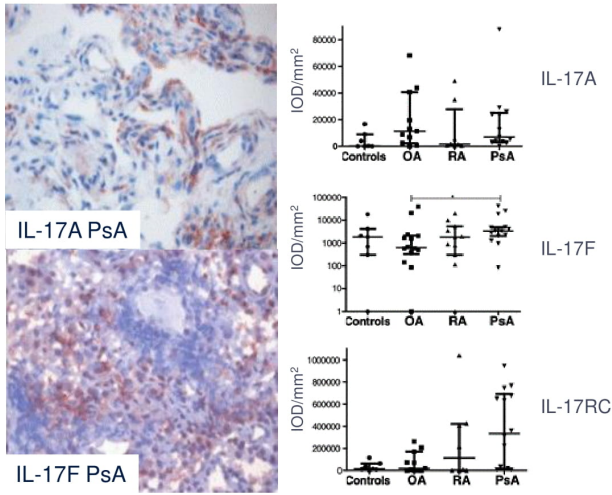




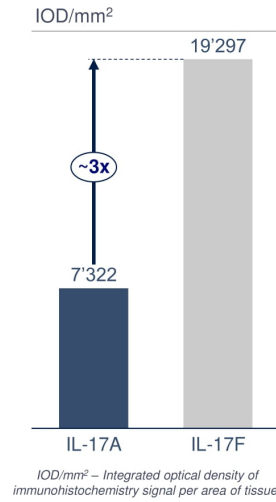
¹Hinks TSC, Zhang XW. Front Immunol 2020;11:1014 ²Provine NM, et al. Science. 2021;371:521–26 ³Cole S, et al. Front Immunol 2020;11:585134 ⁴Domingues RG, Hepworth MR. Front Immunol 2020;11:116 ⁵Cole S, et al. Front Immunol 2020;11:585134

SOURCE: Peer-reviewed publications, MoonLake Clinical Development

Accumulation of IL-17 in synovial tissue in PsA patients^{1,2}



*P < 0.05. IOD/mm² – Integrated optical density of immunohistochemistry signal per area of tissue¹

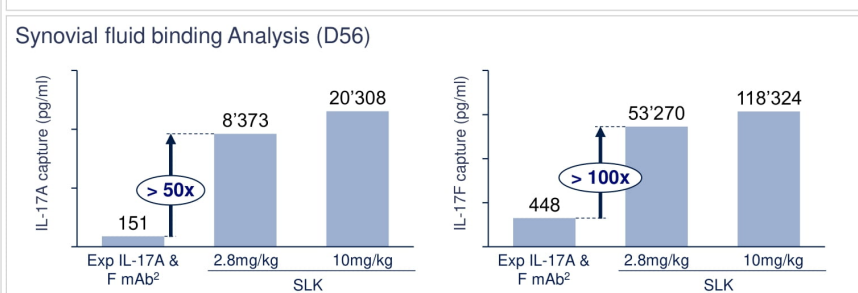
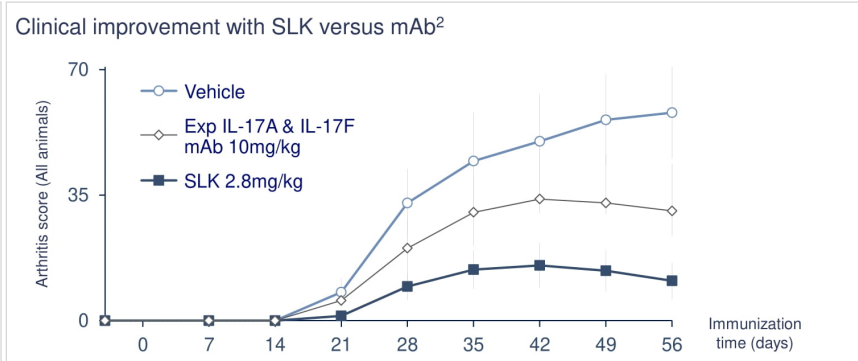
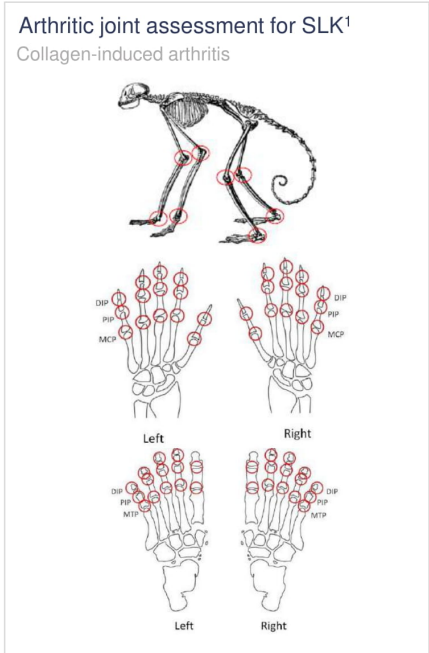


IOD/mm² – Integrated optical density of immunohistochemistry signal per area of tissue²

Notes

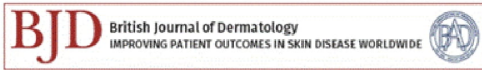
- Same proportional difference of IL-17F versus IL-17A in patients treated with adalimumab²
- IL-17F also significantly elevated vs IL-17A in serum in PsA patients³
- IL-17F serum levels also more elevated in patients with concomitant inflammation in skin and joint vs joint alone⁴
- Meta-analysis of genetic studies of IL-17 pathway shows exclusive association of *IL17F* variations with disease risk⁵

¹van Baarsen LG, et al. Arthritis Res Ther. 2014 Aug 22;16(4):426. doi: 10.1186/s13075-014-0426-z ²Bolt JW, et al. Biomedicines. 2022 Jan 29;10(2):324. doi: 10.3390/biomedicines10020324 ³Sweet K, et al. RMD Open. 2021 May;7(2):e001679. doi: 10.1136/rmdopen-2021-001679 ⁴Kolbinger F, et al. J Allergy Clin Immunol 2017;139:923–32 ⁵Villalpando-Vargas FV, et al. Inflamm Res. 2021 Dec;70(10-12):1201-1210



1. Assessed joints for the determination of Arthritis Score. The scored joints are indicated (red circles) for the large joints (top panel), for limb joints (middle panel) and hind limb joints (bottom panel). DIP, distal interphalangeal joint; PIP, proximal interphalangeal joint; MCP, Metacarpophalangeal joint; MTP, Metatarsophalangeal joint; 2 Exp IL-17A & IL-17F mAb (Novimmune)

SOURCE: MoonLake team, Modified from SBL271-002 (n=46)

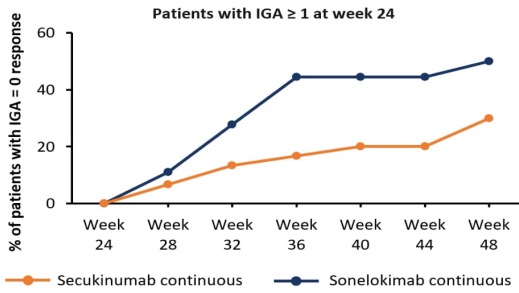


RESEARCH LETTER

Maintenance of response in moderate-to-severe psoriasis after withdrawal of the IL-17A and IL-17F nanobody sonelokimab – is there a role for IL-17F in disease reoccurrence?

Kristian Reich, Eva Cullen, Mark Weinberg

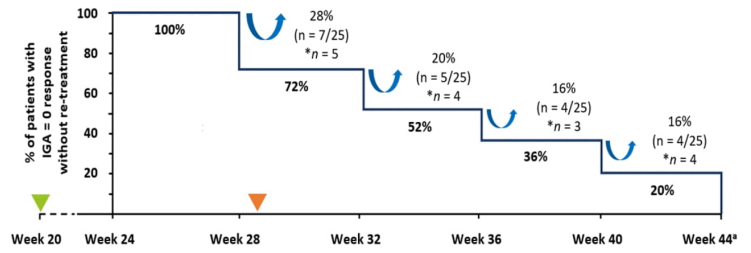
First published: 20 April 2022 | <https://doi.org/10.1111/bjd.21617>



SOURCE: MoonLake, BJD

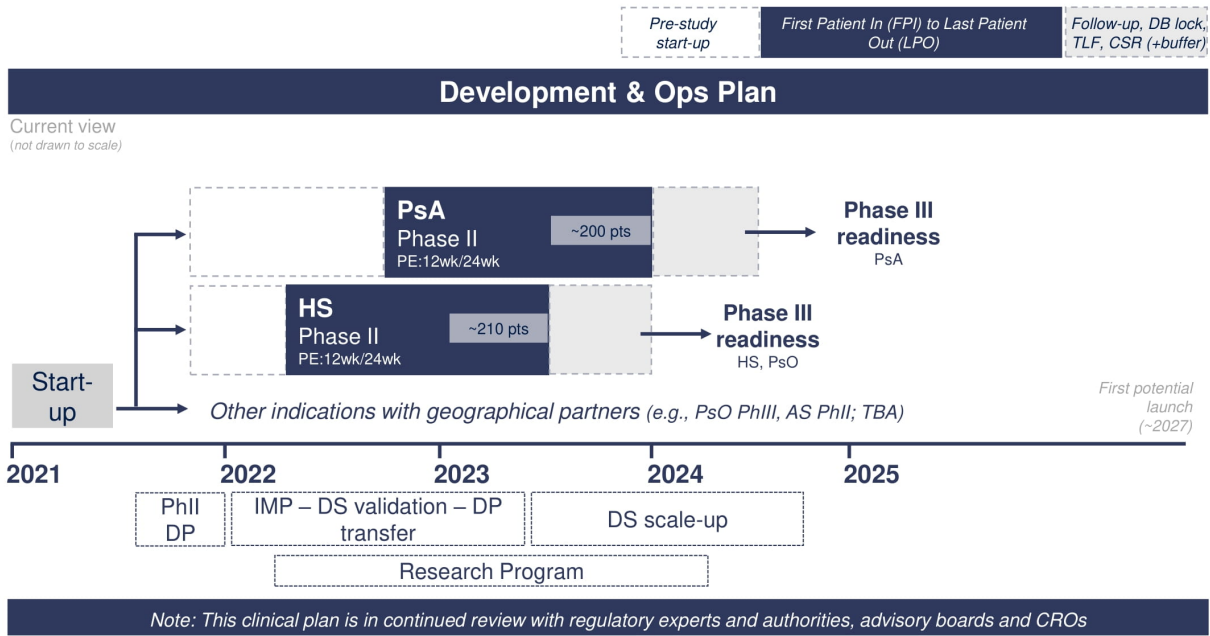
Main findings

- Disease modification: 20% of responders at week 24 do not require re-treatment to maintain full clearance at week 44, retreatment rapidly re-establishes clearance in 80% patients with disease re-occurrence
- Nanobody® allows patients that do not reach skin clearance at 24 weeks to progress to clearance at 6 months in 50% of cases
- SLK withdrawal/retreatment group received 50% less total monthly injections (wk 24-48) than group receiving secukinumab to reach same level of clearance

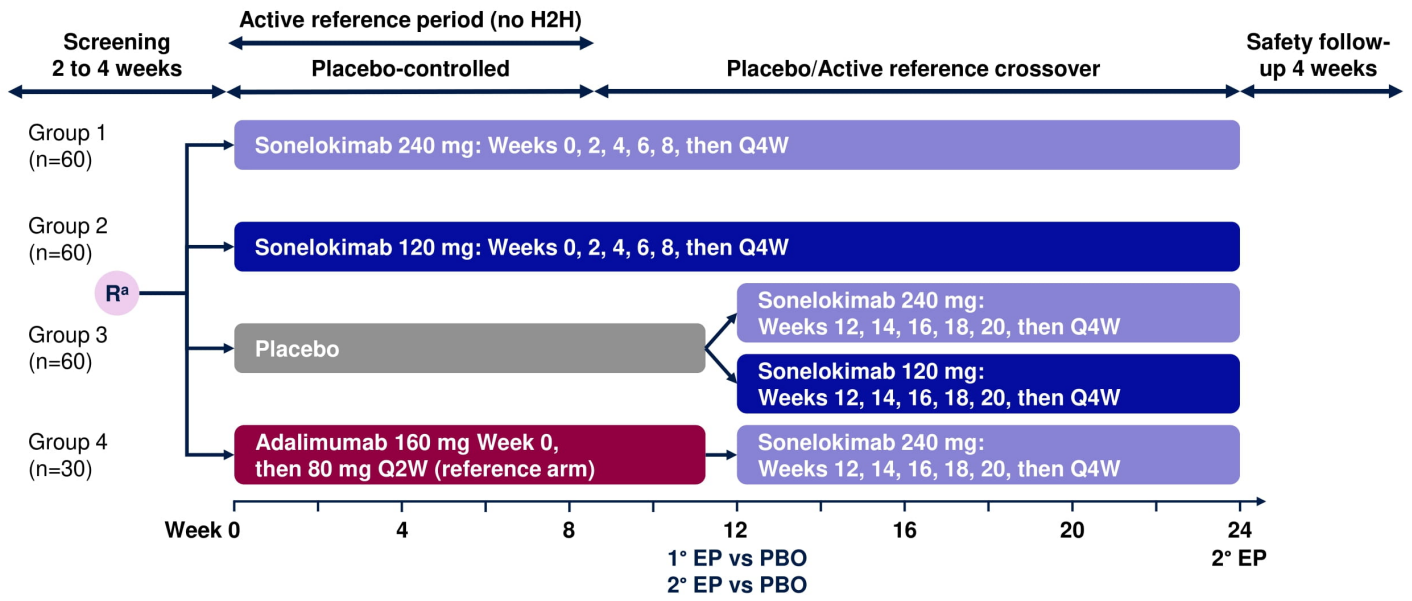


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Recap: We are driving two global Phase 2 trials in our program



HS: Phase II, randomized, double-blind, placebo-controlled, 24-week study of sonelokimab in patients with active moderate to severe HS



^aRandomization stratified by Hurley stage status (I/II and /III) and prior biologic use (Y/N). Patients in Hurley stage III limited to ~40%
 SOURCE: MoonLake Clinical Development

Primary endpoint

- HiSCR75^a response at Week 12

Key secondary endpoints

- HiSCR50 response at Week 12
- % Change from baseline in IHS4
- DLQI total score of 5 or below at Week 12
- Patients achieving NRS30^b in Patient's Global Assessment of Skin Pain at Week 12

^aHiSCR75: Clinical response per Hidradenitis Suppurativa Clinical Response (HiSCR) criteria, ie, $\geq 75\%$ reduction from baseline in total abscess and inflammatory nodule (AN) count, with no increase from baseline in abscess or draining fistula count

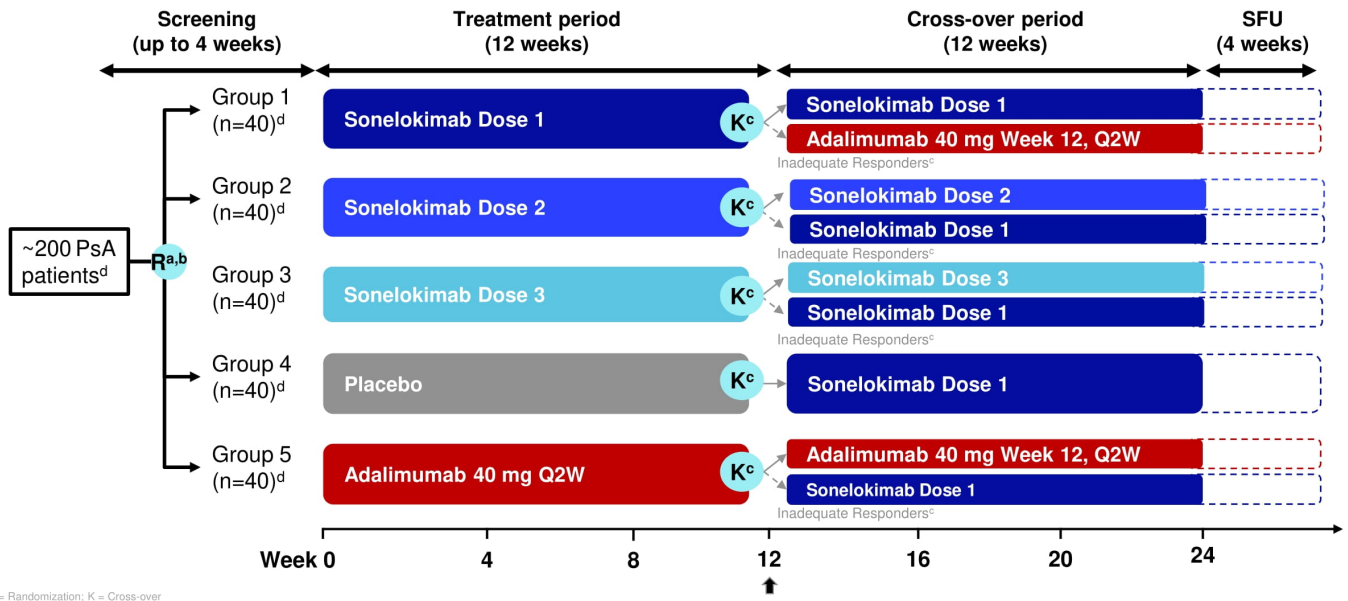
^bNRS30: $\geq 30\%$ reduction and at least 1 unit reduction from baseline in numerical rating scale (NRS), among patients with baseline NRS ≥ 3

DLQI, Dermatology Life Quality Index; IHS4, International Hidradenitis Suppurativa Severity Score System

SOURCE: MoonLake Clinical Development

HS	Regulatory - FDA	<ul style="list-style-type: none"> Approved
	IRB - US	<ul style="list-style-type: none"> Central IRB Protocol Approval received. Site approvals in progress
	Regulatory/CEC/CIRB - ROW	<ul style="list-style-type: none"> All submissions performed RA - CA/NL/POL/BL approvals received CEC/CIRB – CA/POL/BL approvals received
	Site Activation	<ul style="list-style-type: none"> 58/60 selected + 6 back ups 8 SIVs complete (7 scheduled in June) 8 sites activated (7 US, 1 Canada), 4 recruiting
	Patient Recruitment	<ul style="list-style-type: none"> 11 patients screened 3 patients enrolled/dosed 4 patients screen failed
PSA	Regulatory - FDA	<ul style="list-style-type: none"> New design finalized & re-costed with CRO
	Regulatory - ROW	<ul style="list-style-type: none"> Submissions on hold pending finalisation of updated protocol
	Site Activation	<ul style="list-style-type: none"> 34/61 selected (short feasibility to be performed covering new study design)
	Patient Recruitment	<ul style="list-style-type: none"> First patient screened projected for 30 Sep 2022

PsA: Final design of proposed Phase II PsA study (24 weeks)



R = Randomization; K = Cross-over

a Randomization stratified by sex (male/female) and prior exposure to biologic agents (yes/no)

b At the beginning of the Treatment Period at Week 0/Day 1, all eligible participants will be randomized 1:1:1:1:1

c In the cross-over period, starting at Week 12, participants on soneelokimab 120 mg that have not achieved an adequate response will receive adalimumab 40 mg Q2W until Week 24; participants on soneelokimab 60 mg (started at baseline Q2W or Q4W) that have not achieved an adequate response will receive soneelokimab 120 mg every 4 weeks until week 24; participants on adalimumab that have not achieved an adequate response will receive soneelokimab 120 mg Q4W until Week 24; an adequate response is defined as a reduction of the tender and swollen joint count of at least 20%. Patients on placebo will receive soneelokimab Q4W until Week 24.

d Final number of participants is subject to results of additional statistical power calculations.

SOURCE: MoonLake Clinical Development

Primary endpoint

- ACR50 response^a at Week 12

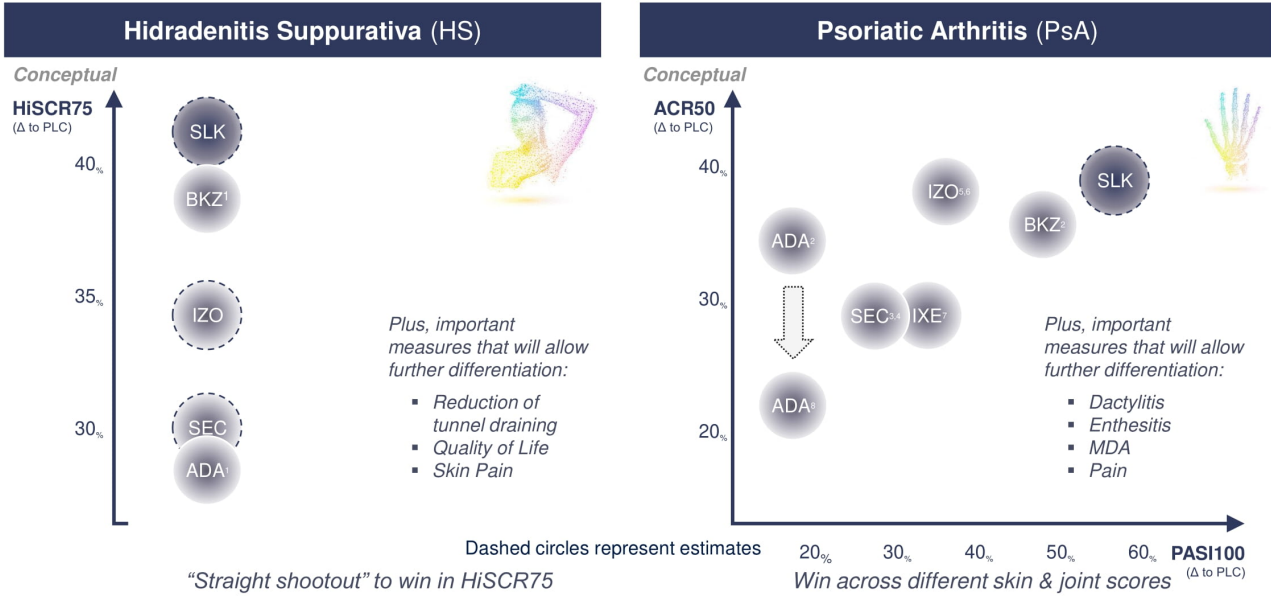
Key secondary endpoints

- PASI100 response at Week 12 (patients with psoriasis involving $\geq 3\%$ BSA at baseline)
- ACR20 response at Week 12

Other secondary endpoints

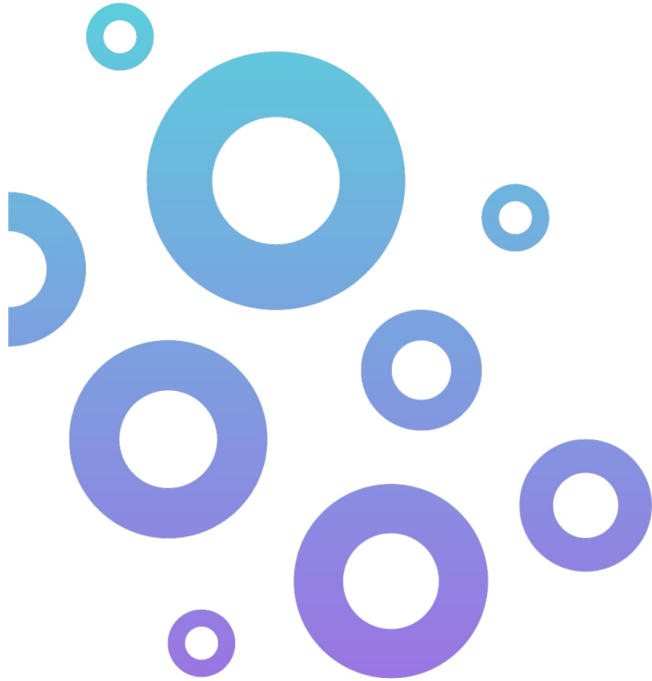
- ACR70 response at Week 12
- Minimal disease activity (MDA) at Week 12, defined as meeting 5/7 of the following:
 - ≤ 1 tender joint
 - ≤ 1 swollen joint
 - PASI score ≤ 1 or psoriasis affecting $\leq 1\%$ BSA
 - Pain score ≤ 15 (0–100 VAS)
 - Patient global activity score ≤ 20 (0–100 VAS)
 - HAQ-DI score ≤ 0.5
 - ≤ 1 tender enthesal point
- Health Assessment Questionnaire Disability Index (HAQ-DI) at Week 12

^aACR50: \square 50% improvement in tender joint count (68 joints) and swollen joint count (66 joints), and \square 50% improvement in 3 of the following 5 measures: Patient's Global Assessment of Disease Activity (PtGADA), Physician's Global Assessment of Disease Activity (PhGADA), Patient's Assessment of Arthritis Pain (PtAAP), Health Assessment Questionnaire-Disability Index (HAQ-DI), high-sensitivity C-reactive protein (hs-CRP)
ACR, American College of Rheumatology; BSA, body surface area; PASI, Psoriasis Area and Severity Index; VAS, visual analogue scale
SOURCE: MoonLake Clinical Development



1. Glatt S, et al. JAMA Dermatol. 2021 Nov 1;157(11):1279-1288; phase 2 POC study of BKZ in HS with ADA as active reference, week 12; 2. McInnes I et al. EULAR abstract LB0001; June 2022; BKZ and ADA skin and joint data is from a phase 3 PsA study with ADA as active reference, bio-naïve patients, week 16; 3. McInnes I et al. FUTURE 2, Lancet.; 2015 September; doi: 10.1016/S0140-6736(15)61134-5; 4. Langley G, et al. ERASURE, N Engl J Med; 2014 July; doi: 10.1056/NEJMoa1314258; secukinumab joint and skin data come from different studies; ACR50 is from phase 3 PsA, 50 mg, bio-naïve and bio-experienced patients, week 24; PASI100 is from phase 3 psoriasis, 300 mg, week 12; 5. Behrens F et al., EULAR abstract OP0258; 2022 May; 6. Gerdes S et al., EADV abstract 364; September 2021; izokibep joint data is from a phase 2a study in PsA, 80 mg Q2W, bio-naïve and bio-experienced patients, week 16; skin data is from phase 2 study in PsO, 80 mg Q2W, week 12; 7. Mease P et al. SPIRIT-P1; Ann Rheum Dis.; 2017 Jan; doi: 10.1136/annrheumdis-2016-209709; phase 3 PsA study, IXE 40 mg Q4W, bio-naïve patients, week 12; 8. McInnes IB, et al. N Engl J Med. 2021 Apr 1;384(13):1227-1239

SOURCE: MoonLake Clinical Development



- Evidence for a specific role of IL-17F in a growing number of diseases including HS, PsA and PsO
- Full anti-inflammatory potential and long-term disease control requires inhibition of IL-17A/A, A/F, and F/F
- Optimal delivery of MoA requires unique characteristics such as enhanced penetration and albumin-binding
- Focus on clinical development in HS and PsA as two model diseases for MoA and molecule features of SLK
- 24-week programs with next-level treatment goals and active reference arms, plus placebo
- Creating solid basis for Phase 3 readiness in 3 key indications for SLK

SOURCE: MoonLake Clinical Development

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Financial Overview & Guidance



2021

2022

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
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March '21
Registration as Swiss stock corporation

April '21
Series A led by BVF Partners L.P.

July '21
Registration of UK subsidiary

October '21
Definitive agreement with Helix Acquisition Corp. to enter into De-SPAC business combination
Concurrent commitments of leading Biotech investors for a PIPE

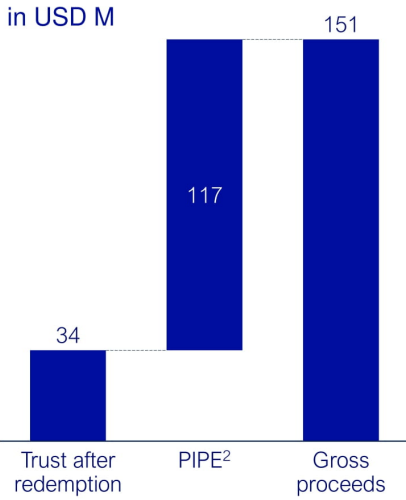
May '21
Announcement of License Agreement with Merck KGaA, Darmstadt, Germany

- Global rights
- Royalties in the low teens
- USD 25m upfront + 9.9% ownership

April '22
Closing of De-SPAC transaction and listing on Nasdaq under ticker MLTX

Details on next page

De-SPAC proceeds¹



Corporate structure



Business combination with Helix Acquisition Corp (SPAC sponsored by Cormorant Asset Management)

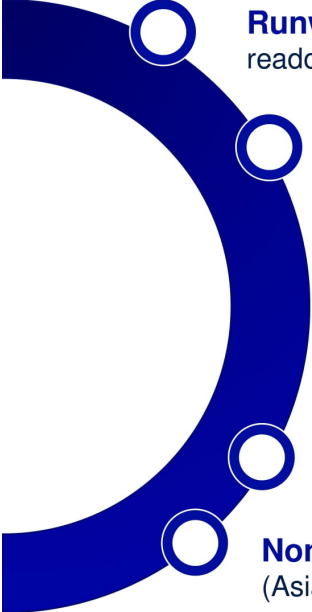
USD 151m in aggregate deal proceeds¹

Backed by top Biotech investors across the PIPE and non-redeeming shareholders

Top-10 SPAC deal in Healthcare since 2019 in a tough market environment

52.7m shares (dual class structure only temporary – relevant share count is Class A + Class C combined)

¹ Prior to transaction-related expenses
² Includes issuance of, in aggregate, 100,000 Class A Ordinary shares to placement agents as share-based payment for PIPE placement services
 SOURCE: MoonLake Finance



Runway well into 2H-2024: cash provides runway to key clinical data readouts plus 12+ months (at zero debt)

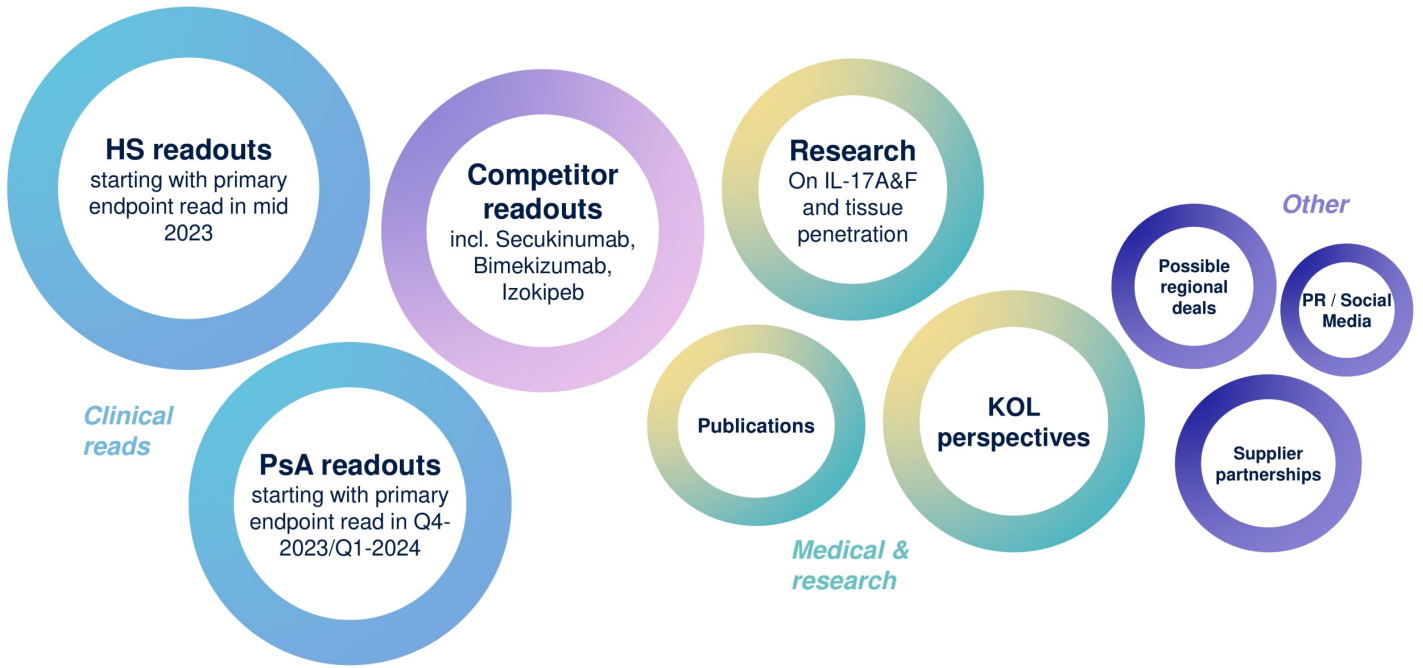
Average quarterly cash burn in the “low-teen millions”¹ – next quarters elevated due to one-off expenses:

- Remaining De-SPAC transaction cost
- Trial initiations in HS and PsA
- **Milestone payments:** single-digit USD millions due in licensing milestones for initiation of Phase 2 trials (note: no additional milestones until acceptance of regulatory filing)

Management committed to focus on Sonelokimab development

Non-dilutive cash opportunities so far untapped: regional partnering (Asia), grants, and other non-dilutive opportunities for additional cash exist

1 In USD millions
SOURCE: MoonLake Finance



Our approach to Investor Relations

Open and transparent communication on company strategy, direction and updates in a **regulation-FD compliant** manner

No plans to change status as **domestic filer** with quarterly financial reporting and other associated filing requirements

At least semi-annual **event-based meetings** with **opportunity for Q&A** (incl. an in-person/virtual capital markets day)

Where possible, **participation of independent experts**

Presence at key **investor and scientific conferences** globally, as relevant

BIO€QUITY EUROPE

svb

LifeSci

UBS

HCW
HELVANWIRCHT&CO

AAD
American
Academy of
Dermatology
Association

CR
Convergence

eular

EUROPEAN ALLIANCE
OF ASSOCIATIONS
FOR IMMUNODERMATOLOGY

People and resources



Jorge Santos da Silva (CEO)



Kristian Reich (CSO)



Matthias Bodenstedt (CFO)



Atif Khan
(Investor Relations and Strategy)



Patricia Marques de Sousa
(Communications and Media)

Ad-hoc investor queries may be directed to
[**ir@moonlaketx.com**](mailto:ir@moonlaketx.com)

Dedicated IR website with link to all filings
[**ir.moonlaketx.com**](http://ir.moonlaketx.com)



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