

Building the Next Immunology Leader

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Experienced and proven leadership

- Experienced drug developers and asset hunters led by ex-Arena leaders
- Product approvals & commercialization
- Significant corporate transactions

Multiple Phase 2 programs

- Validated mechanisms pursuing innovative new development paths
- Potential Best in Class attributes combined with strategic clinical development to enhance differentiation

Track Record of Execution

- Deep relationships with KOL community
- Prior CRO leadership history within team enhances our Sponsor status
- Recent precedent of on-time execution in crowded I&I spaces (UC, AD, etc.) includes absorbing COVID impact without delays

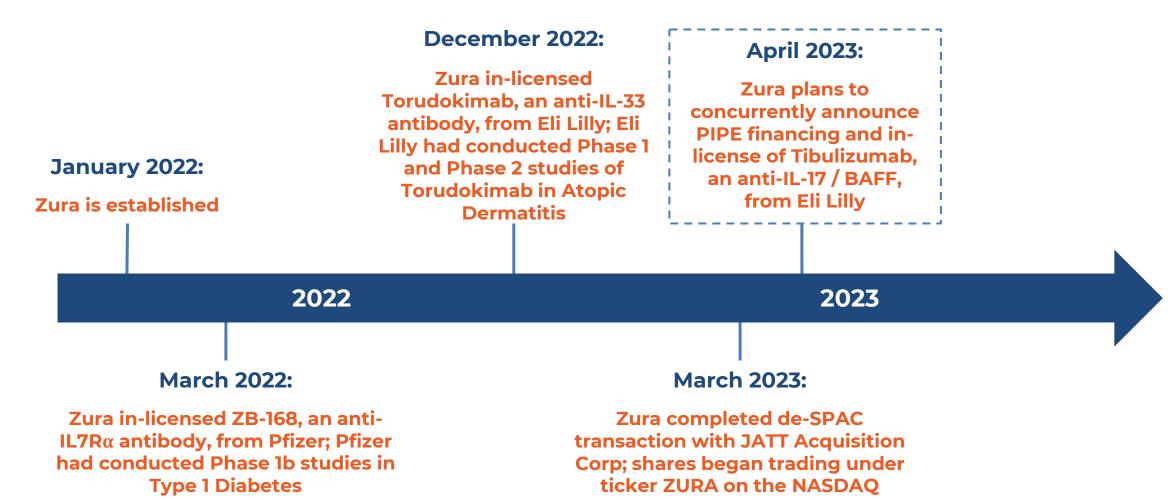
Strong and committed financial backing with long-term alignment

- Investors aligned with long-term commitment
- Successful PIPE transformation, including \$65M in funding through Business Combination

Abbreviations: AD, Atopic Dermatitis; CRO, Contract Research Organization; KOL, Key Opinion Leader; UC, Ulcerative colitis



Zura Company Timeline



An Experienced Leadership Team from A to Z











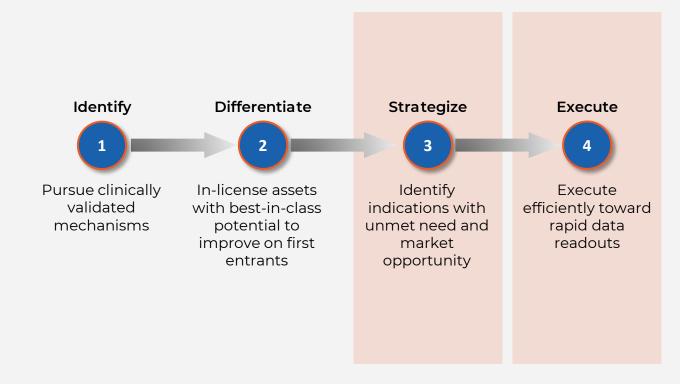








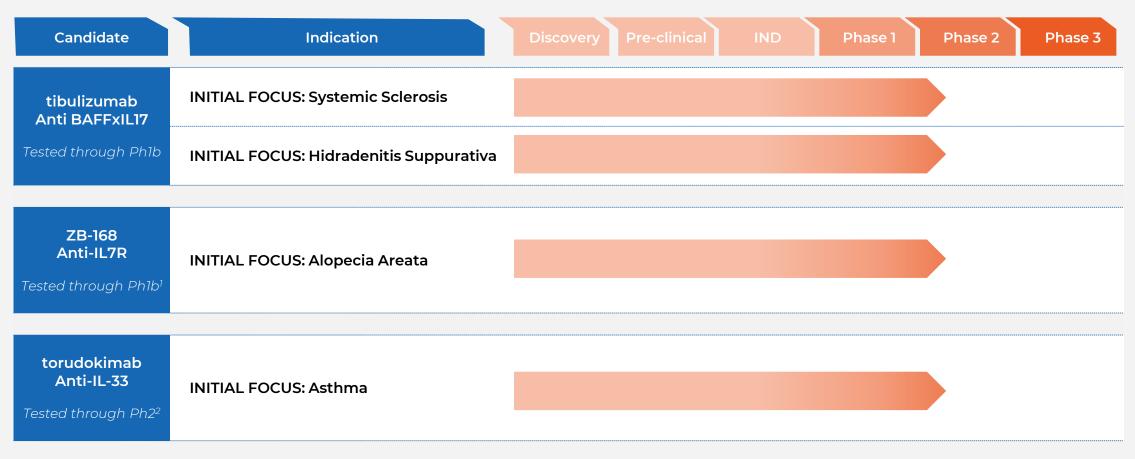
Zura's Business Development Aligns with its Philosophy of Developing Validated Mechanisms in Novel Ways





Clinical stage pipeline targeting key immunology pathways

Current financing will bring in ZB-106 as lead asset into Zura

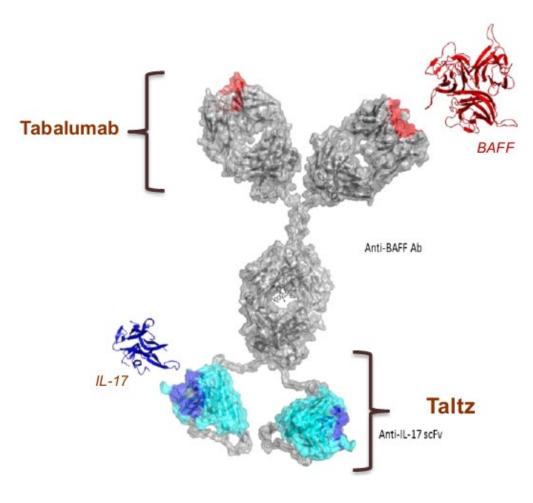


Note: Clinical development plan subject to confirmation, pending regulatory and further clinical feedback









ZB-106 is an IgG-scFv engineered by the fusion of ixekizumab (TALTZ®) and tabalumab^{1,2}

- ZB-106 neutralizes IL-17A or BAFF regardless of whether the other binding sites are occupied
- ZB-106 binds in the same way as Taltz and tabalumab with the same number of binding sites
- Activity is mediated through direct target engagement and not ADCC
- Terminal half-life ~26 days

Robust existing clinical and non-clinical data package

- Two Phase 1b studies completed by Eli Lilly (RA and Sjögren's Syndrome)
- 78 subjects have been dosed with ZB-106
 - 57 subjects = single dose; 21 subjects = multiple dose up to 12 weeks
- Chronic toxicity studies completed with no adverse findings

Durable and deep IL-17 and BAFF signaling blockade observed with sub cutaneous dosing every 4 weeks

At target Q4W doses BAFF and IL-17 achieve maximum receptor occupancy

Low rate of immunogenicity

 Across 78 subjects exposed to ZB-106, only 1 subject tested positive for Antidrug Antibodies (ADAs)

Safety profile to date appears to be consistent with ixekizumab (TALTZ®) and IL-17A class

1. Liu et al. 2016. *J Inflam Research*; 2. Manetta et al. 2014. *J Inflam Research*; 3. Benschop et al. 2019. MAbs





Eli Lilly Deal Terms



Terms of Tibulizumab (ZB-106) License

Upfront:

· Mid-teens upfront cash payment for exclusive global license

Milestones:

- Single digit development milestones
- Back-end milestones triggered at approval and sales-based
- · Single to low double-digit royalties on net sales

Other Key terms:

- No development in select indications (a) plaque psoriasis, (b) pediatric psoriasis, (c) genital psoriasis, (d) psoriatic arthritis, (e) ankylosing spondylitis, (f) non-radiographic axial spondylarthritis, (g) chronic spontaneous urticaria, and (h) juvenile idiopathic arthritis
- · Right of first negotiation for Lilly upon completion of Phase 2b data
- · Most patents expire in April 2033, but US patent expires June 2034
- · Data protection is expected from marketing approval for 12 (US), 10 (EU), and 8 (JP) years





Clinical Development



Upcoming milestones

tibulizumab (BAFFx17)

- 2 clinical studies for ZB-106
- · Initiate phase 2 study in **Systemic Sclerosis** (2024)
- · Initiate phase 2 study in **Hidradenitis Suppurativa** (2024)

ZB-168 (IL-7Rα)

- · Advance CMC program for ZB-168 ready to initiate clinical drug product at scale (H1 2024)
- Enable targeted launch of clinical trials in H2 2024 pending expected **phase 2 external catalysts in Atopic Dermatitis, Ulcerative Colitis and Sjögrens Syndrome**

torudokimab (IL-33)

- \cdot Gain FDA Regulatory feedback and alignment for torudokimab on phase 2/3 designs in Asthma (H2 2023)
- Enable launch of clinical trials in H2 2024 pending expected **phase 2 and 3 external catalysts in Asthma and COPD**





ZB-106: Potential First-in-Class, Dual Antagonist Combining tabalumab and Taltz





IL-17 and BAFF Approved in Multiple Autoimmune Diseases

- IL-17 and B-cell assets are widely recognized to have significant value
- ZB-106 represents an opportunity to pioneer a new approach to treating autoimmune diseases by directly addressing both aspects of immune inflammatory response

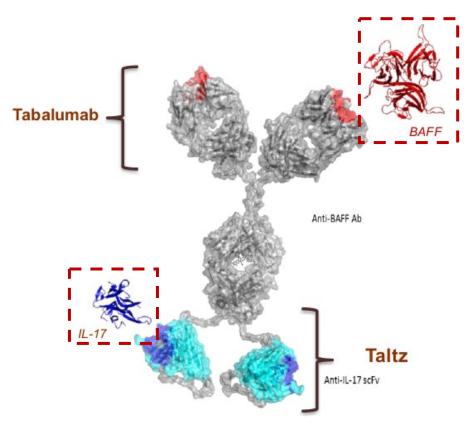
			IL	-17		IL-17 / BAFF		BAFF / TA	CI / APRIL	
	Company	& novartis	Lilly	ACELYRIN 🕰	○ MoonLake	🍁 zurabio	GSK	⊘ Reme6en	CHINOOK	Vero
	Asset	Cosentyx (secukinumab)	Taltz (ixekizumab)	Izokibep	Sonelokimab	ZB-106	Benlysta (belimumab)	Telitacicept	BION-1301	Atacicept
	МоА	IL-17A	IL-17A	IL-17A/A	IL-17A/F	IL-17A/BAFF	BAFF	TACI fc	APRIL	BAFF/APRIL
	Delivery	SC/IV	SC	SC	SC	SC	SC/IV	SC	SC	SC
	Plaque Psoriasis	Approved	Approved		Ph3					
	Psoriatic Arthritis	Approved	Approved	Ph2b/3	Ph2					
	AS	Approved	Approved	Ph3						
SL	SLE / Lupus						Approved	App. China		
atior	HS	Filed		Ph2b/3	Ph2	Ph2 Ready			-	
Indications	Lupus Nephritis	Ph3					Approved			Ph3
	Sjögren's							Ph3		
	IgAN							Ph2	Ph1/2	Ph2b/3
	Other			Uveitis (Ph2b/3)		Syst. Sclerosis (Ph2 Ready)	Syst. Sclerosis (Ph2)	MG (Ph3) RA (Ph3)		





ZB-106 is a Combination of Two Compounds that have Each Demonstrated Efficacy with an Established Safety Profile

- Taltz® (ixekizumab) is an approved anti IL-17 therapy with estimated peak sales >\$3bn
- tabalumab is an anti-BAFF which has shown efficacy in some phase 3 trials



TABALUMAB

4,275 subjects dosed across 21 studies

- Statistically significant efficacy in a phase 3 study in SLE
- Demonstrated safety profile

(TALTZ®)

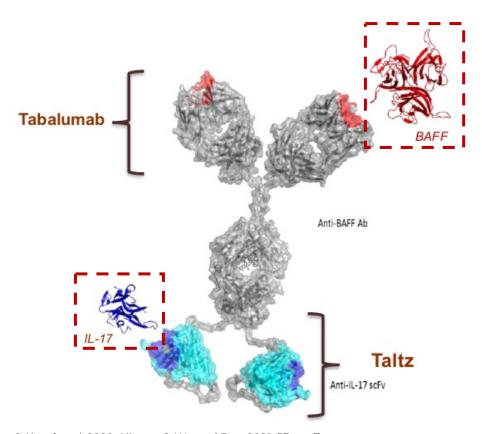
- Commercially approved drug with >\$2.2bn of annual sales¹
- Demonstrated efficacy in multiple indications
- Demonstrated safety profile

1. Eli Lilly Annual Report



ZB-106 Has Broad Potential Therapeutic Applications

• Potential to be a first-in-class biologic in a number of autoimmune diseases where both BAFF and IL-17 are implicated in the pathology^{1,2}





- Systemic Sclerosis
- Sjögren's Syndrome
- Systemic Lupus Erythematosus

IL-17

- Hidradenitis Suppurativa
- Uveitis
- Bechet's Disease
- Lichen Planus
- Pustular Psoriasis
- Impetigo Herpetiformis
- Pityriasis Rubra Pilaris

1. Kaegi et al. 2020. Allergy; 2. Wu and Dao, 2022. JDermTreat



ZB-106 Disrupts IL-17 and/or BAFF-Mediated Inflammation

ZB-106 has the potential to treat diseases driven by B-cell and T-cell signaling

Autoimmune

Inflammation

T-cell and B-cell synergy

- Multiple T-cell driven diseases remain suboptimally treated despite the growth in "pure play" anti-IL-17 drugs
- B-cell driven diseases often have a T-cell driven autoimmune component contributing to the pathology
- · Combined approach to address T-cell and B-cell drivers of autoimmunity has the potential to increase clinical benefit

zurabio

BAFF Binds to BAFF trimer and BAFF 60-mer preventing binding to BAFF-R, TACI, and BCMA² 11 -17 Binds to IL-17A preventing IL-17A/A and IL-17A/F BAFF heterodimerization¹ 60-mer Trimer IL-17A/IL-17F IL-17A/IL-17A IL-17F/IL-17F TACI IL-17RA IL-17RC



Plasma Cell Survival

T Cell Independent

Antibody Responses/

B Cell Regulation/

Class Switch Recombination

Immature B Cell Survival and

Maturation

Trimer

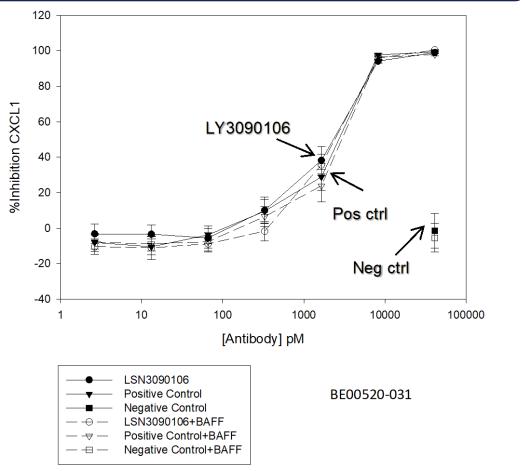
BCMA



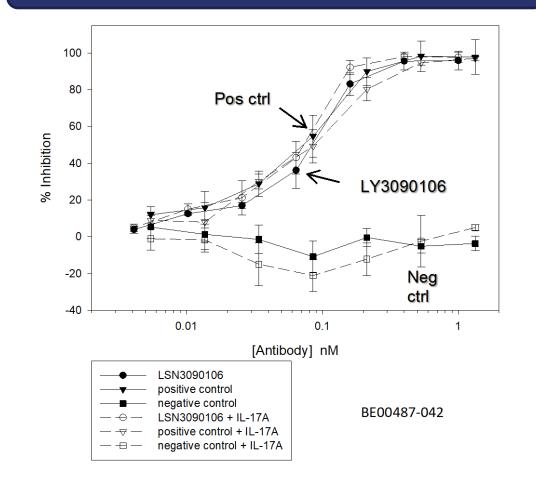
ZB-106 (LY3090106) Independently Neutralizes IL-17 or BAFF



ZB-106 inhibits IL-17 mediated CXCL1 production in HT-29 epithelial cells in a BAFF independent manner¹



ZB-106 inhibits BAFF-mediated proliferation in T1165 cells in an IL-17 independent manner¹



Benchop et al. 2019 mAbs.

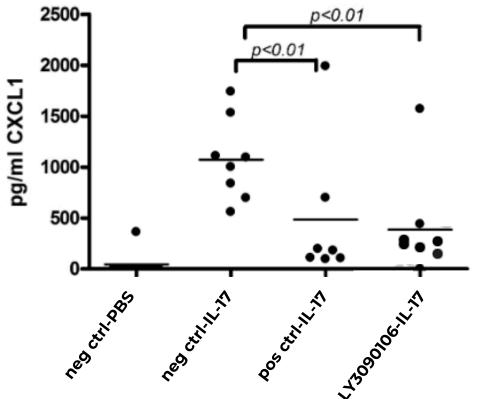




ZB-106 (LY3090106) Inhibits IL-17 or BAFF-Mediated Inflammation

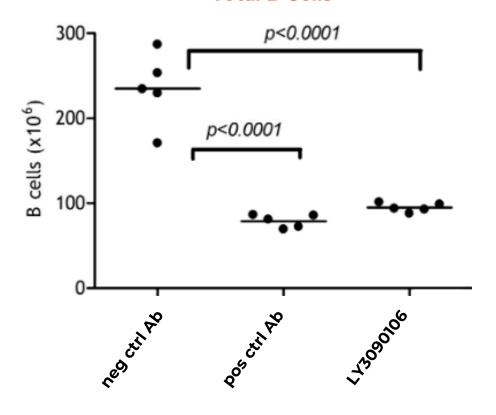
ZB-106 inhibits IL-17 mediated CXCL1 production in C57BI/6 mice similar to ixekizumab (positive control)¹

IL-17-induced CXCL1 Levels In-Vivo



ZB-106 reduces total B cell counts in the spleens of human BAFF transgenic mice similar to tabalumab (positive control)¹





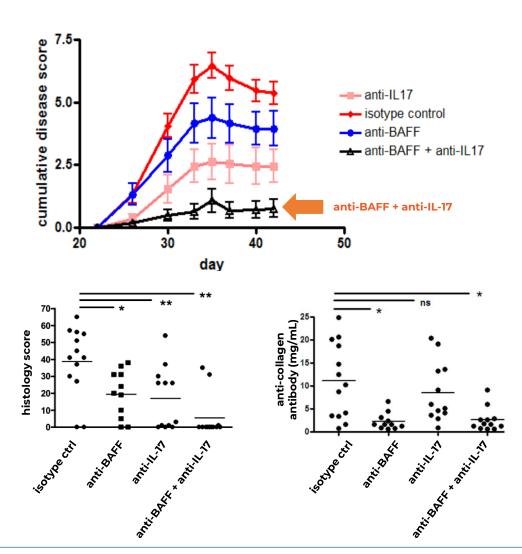
Benchop et al. 2019 mAbs.





Combining IL-17 and BAFF Neutralization in a Murine Model of Arthritis Enables Improvement in Therapeutic Benefit

- Rheumatoid arthritis is a prototypic autoimmune disease where individually targeting IL-17-mediated inflammation or depleting B cells has been clinically validated
- The collagen-induced arthritis (CIA) murine model is similarly characterized by increased IL-17 production and B cells that drive disease pathogenesis
- Surrogate antibodies were used to evaluate whether neutralization of IL-17 and BAFF was superior to targeting individual pathways
- Mice were injected with anti-IL-17A and/or anti-BAFF on days 22, 29, and 36
- Blockade of both IL-17A and BAFF was associated with reduced:
 - Disease severity
 - Inflammation in the hind paw (histology score)
 - Anti-collagen antibodies









ZB-106 is Clinically De-Risked Through P1b 78 Subjects/Patients Dosed Across 3 P1/1b studies



Pharmacokinetics	Pharmacodynamics	Safety and ADA
 t_{1/2} is 26.9 days Bioavailability after SC doses was 62.9% At doses tested there is evidence of maximum target engagement with clinical safety supporting 6-fold "window" between max target engagement and max human dose tested 	 In Ph1b healthy volunteer study in RA patients there was multiple impacts on PD markers Decrease in CD20+ B-cells with higher doses generally associated with larger changes from baseline Decrease in hs-CRP AUC was associated with higher ZB-106 AUCs 	 SAD studies: No deaths or SAEs MAD study: No deaths, single related SAE of neutropenia with resolution Most frequent TEAE: Headache, transient neutropenia, nausea, diarrhea No infections In the multiple ascending dose study, one subject had TE-ADAs detected at a titer of 1:5120



Established dosing regimen



Demonstrated PD in patients in ph1b



Safety / ADA profile in line with Taltz

ZB-106 is a highly validated molecule that enables the opportunity to deliver on the promise of both IL-17 and BAFF inhibition in autoimmune disease

Source: Zura Internal Data, IND Briefing





ZB-106: Systemic Sclerosis



Overview of Systemic Sclerosis



Disease Overview

- Systemic sclerosis (SSc) remains among the deadliest of the rheumatic diseases
- Patients with SSc often have severe disability, fibrosis-related organ failure, and die prematurely
 - Up to 50% develop interstitial lung disease (ILD), the most common cause of mortality in these patients
 - The disease has a severe impact on patients' lives, causing a variable constellation of symptoms including Raynaud's phenomenon, arthritis, painful ulcers on the fingers and toes, thickening and scarring of the skin, shortness of breath, hypertension, and severe fatigue

Unmet Need

- High unmet need remains as standard of care relies on immunosuppression therapy and biologic agents which are toxic and not well tolerated
 - Other current treatments only aim to manage symptoms and include pain relief through nonsteroidal, anti-inflammatory medications or corticosteroids
- Two disease-modifying drugs are approved for severe lung complications of the disease (SSc-ILD), but no effective treatment
 exists that combats the disease across organ systems

Patient Population

- Varying prevalence estimates among world populations, with higher population estimates in the US than in Europe or Asia
- Data suggests ~250 per million adults in the US (80-100K patients), 233 per million in Australia (~6K patients), 88-158 per million in Western Europe
- Women are affected more frequently than men, with a female-to-male ratio of 5:1 and most commonly presents between the ages of 30-40 years





Overview of Systemic Sclerosis Potential Opportunity

Rare and life-threatening autoimmune disease characterized by tissue inflammation and fibrosis that has no disease modifying therapy

~200,000

people with SSc in US, EU and Japan¹

40-60%

mortality in 10 years²

Zero

SSc-specific drugs approved

\$2B+

annual potential market opportunity

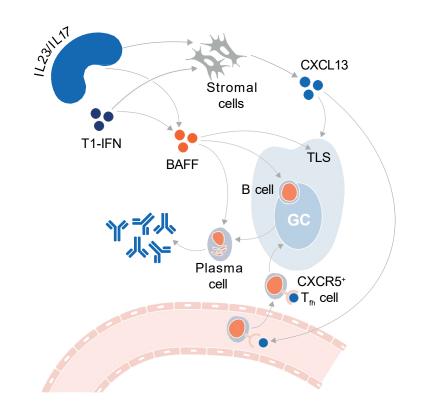
1. Health Advanced, LLC; Lenabasum Commercial Market Assessment 2. Tyndall et al, 2010 3. Bergamasco, A. et al., Clin Epidemiol. 2019 Apr 18;11:257-273 4. Zura Bio internal analysis and benchmarking 5. Internal assumption based on demand research and rare disease analogues



IL-17 and BAFF Inhibition Pathways Have Shown Efficacy in Placebo Controlled Trials in Systemic Sclerosis (SSc)

IL-17 efficacy in SSc

- · Brodalumab treatment in SSc leads to improved clinical outcomes¹
- IL-17 known to play key role in the fibrotic process of various organs like lung, kidney, heart and skin
- Th17 cell-derived II -17 was significantly higher in the skin and serum of SSc patients²



Role of BAFF in SSc

- · Belimumab therapy shows efficacy in open label studies and one single center PBO study³
- Phase 2/3 initiated in SSc-ILD by GSK
- · SSc patients have B cell abnormalities characterized by chronic hyper-reactivity of memory B cells⁴
- BAFF and auto-antibodies are key biomarkers in SSc^{5,6}

ZB-106 has the potential to treat the TH17 and BAFF components of SSc

1. Fukasawa et al. 2022. Annals Rheum Disease; 2. Yang et al. Arthritis Research & Therapy 2014 3. Ebata et al. 2021. Lancet Rheumatol 4. Sato et al. 2004. Mollmmunol.; 5. Senecal et al 2020. JSclerodermaRelatDisord: 6. Sato et al. 2000. JImmunol.



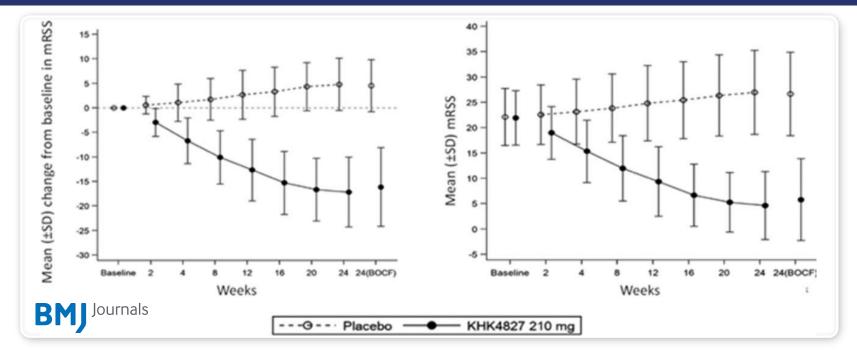
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Brodalumab Treatment in SSc has Demonstrated Improved Clinical Outcomes



- Brodalumab achieved the primary endpoint (treatment difference of least square mean: -21.2 [95% CI -23.9, 18.5];
 P<0.0001), and demonstrated a rapid, sustained reduction in mRSS over 52 weeks¹
- The outcome of brodalumab treatment suggested its therapeutic effects on lung/respiratory functions, digital ulcers, the symptoms of gastroesophageal reflux disease, and QOL without any noteworthy safety concerns

mRSS over the 24-week follow-up (Mean +/- SD)







Belimumab Treatment in SSc has Demonstrated Improved Clinical Outcomes



Overview of Belimumab in SSc

- 52-week, investigator initiated, single center, double blind, placebo-controlled pilot study
- 20 subjects with dcSSC on MMF treated with belimumab or placebo
- No significant differences in AEs between belimumab group and placebo
- Patients in both treatment groups experienced clinical improvements in MRSS favoring belimumab (p=NS)
- All secondary endpoints favored belimumab with statistical significance in 2 endpoints: SHAQ DI and VAS Raynaud's phenomenon
- GSK recently received Orphan Drug Designation for the potential treatment of SSc with plans to initiate a phase 2/3 trial in SSc-ILD in 1H 2023

Table 2. Change in primary and secondary end points at 52 weeks*

	Belimumab + MMF (n = 9)	Placebo + MMF (n = 9)
MRSS, 0-51	-10 (-13, -9)	-3.0 (-15, -1)
SHAQ DI score, 0-3	-0.25 (-0.38, -0.25)†	0.00 (-0.13, 0.13)
VAS pain score, 0-150 mm	-10.5 (-40.5, 6.5)	-1.0 (-32.0, 0.0)
VAS RP score, 0–150 mm	-30.0 (-40.0, -14.0);	0.0 (-7.0, 22.0)
VAS ulcers score, 0–150 mm	-12.0 (-38.0, 1.0)	0.0 (-7.5, 4.0)
VAS breathing score, 0–150 mm	2.0 (0.0, 7.0)	0.0 (-7.0, 3.0)
VAS overall score, 0–150 mm	-14.0 (-29.0, -9.00)	-10.0 (-40.0, -6.0)
SF-36 MCS score, 0-100	7.50 (2.50, 18.50)	3.00 (0.00, 10.00)
SF-36 PCS score, 0-100	8.00 (-3.50, 19.00)	-3.00 (-3.00, 27.00)
PGA, 0-10	-4.43 (-8.05, -0.90)	-1.67 (-2.87 , -0.90)
FVC, % predicted	5.00 (0.00, 8.00)	-2.00 (-6.00, 4.00)
DLco, % predicted§	2.00 (-7.00, 7.00)	0.00 (-6.00, 7.00)
CRISS score	0.61 (0.34, 0.88)	0.03 (<0.001, 0.80)

^{*} Values are the median (interquartile range). MMF = mycophenolate mofetil; CRISS = composite response index in diffuse cutaneous systemic sclerosis (see Table 1 for other definitions).





[†] P = 0.042 versus placebo + MMF.

 $[\]ddagger P = 0.029 \text{ versus placebo} + \text{MMF}.$

[§] Adjusted for hemoglobin level.



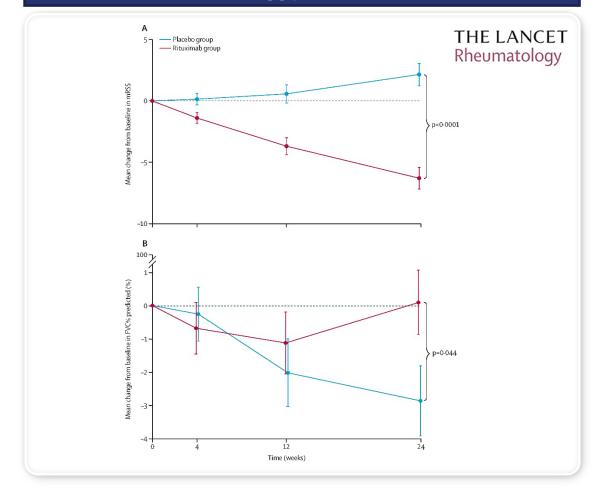
B-Cell Depletion Therapy with Rituximab in SSc has Demonstrated Improved Clinical Outcomes



Rituximab in SSc shows efficacy

- Multiple Studies have shown the potential effectiveness of Rituximab in SSc – mainly open label and observational studies
- The most compelling data come from the DESIRES double blind – placebo controlled trial¹
- Fifty-six patients with SSc entered the study
- The primary endpoint of mRSS change after 24 weeks of study treatment
- Rituximab -6.30 points vs. PBO +2.14 points (p < 0.0001)
- 48 / 56 subjects had SSc-ILD 2.96% FVC improvement at 24 weeks vs. PBO (p=0.04)

Randomized data shows improvements in SSc and SSc-ILD





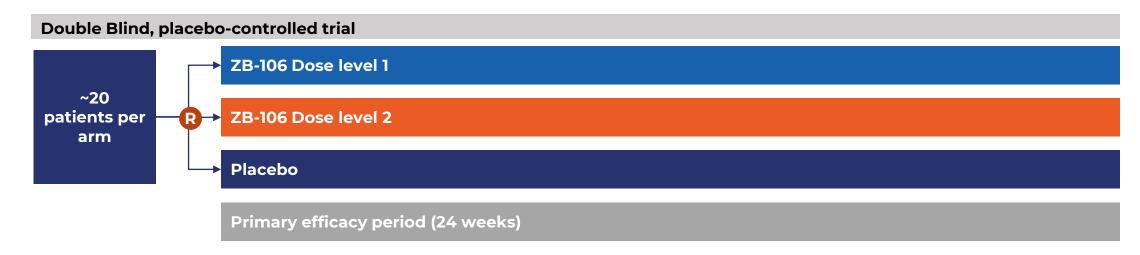


Proposed Phase 2 Trial Design



Key inclusion criteria:

- mRSS 10-29
- Subject presented the first symptoms of sclerosis other than Raynaud's phenomenon within 60 months before enrollment



Key efficacy endpoints:

- Change mRSS
- CRISS
- SHAQ DI
- VAS (RP, Pain, Ulcers, Breathing)
- FVC, DLCO
- PK / PD assessments

Key safety endpoints:

- General Safety and Tolerability
- Severe infection
- Neutropenia
- ADA / nAb

Note: Clinical development plans are subject to ongoing review, regulatory feedback





ZB-106: Hidradenitis Suppurativa



Overview of Hidradenitis Suppurativa



Disease Overview

- Hidradenitis Suppurativa is an inflammatory follicular skin disease
- Skin lesions develop in axillae, in the groin, and under the breasts, are formed as a result of inflammation & infection of sweat glands and are characterized by:
 - · Recurrent boil-like nodules and abscesses that culminate in pus-like discharge
 - Difficult-to-heal open wounds (sinuses) and scarring.
 - Increased Th1/Th17 and B cell mediated inflammation¹⁻³
 - Disproportionately affects women between adolescent age to 55 years of age^{4,5}

Clinical Opportunity

- Estimated that there are ~300K people living with Hidradenitis Suppurativa in the U.S. (1-2% global prevalence)
- Average of 7 years to diagnose globally
- High unmet need as there is only <u>One</u> FDA-approved treatment for Hidradenitis Suppurativa (Humira)
 - Current treatments only aim to manage symptoms and include palliative care such as over-the-counter eyedrops, topical cyclosporine and off-label treatments such as steroids or immunosuppressants to manage systemic symptoms





Overview of Hidradenitis Suppurativa Opportunity

Despite Multiple IL-17 Development Programs, There is Significant Opportunity to Address
Unmet Need in HS

First in Class Therapy With Transformational Potential

- Known efficacy of IL17
- Strong rationale for BAFF
- Known dosing profile

Large Addressable Market

~300KLiving U.S.
Patients¹

1-4%Global
Prevalence²

\$5-10B

Potential market³

Significant Unmet Need

1 Drug Approved Efficacy ceiling with IL17 alone

~10-20%

HiSCORE 50 Placebo-Adjusted⁴

BAFF

has potential to improve clinical response vs IL17 alone - emerging early clinical data of B-cell targeted therapies

1. Epidemiology of Hidradenitis Suppurativa: Prevalence, Pathogenesis, and Factors Associated with the Development of HSInge E. Deckers & Hessel H. van der Zee & Errol P. Prens 2. Evaluate Pharma 3. Jefferies Wall Street Research 4. Cosentyx and Bimzelx Public Presentations, Publications and Research



Despite Multiple IL-17 Development Programs, There is Significant



Opportunity to Address Unmet Need in HS

- 1 IL-17 A/F hypothesis still remains to be proven in the clinic
 - IL-17 mediated inflammation is a key driver of pathophysiology in HS
 - Multiple IL-17 compounds have shown efficacy, however, there were minimal differences between therapies targeting IL-17A alone versus those targeting IL-17A/F
- 2 Smaller therapeutics may not achieve higher efficacy or convenience
 - Izokibep (IL-17A/A blocking peptide) reported improvement in a small open label study that enrolled HS patients primarily classified as Hurley Stage 2
 - Data presented were similar to secukinumab Ph2 open label study in HS suggesting additional studies are needed to address the role of tissue penetration and smaller therapeutic approach
- 3 Despite clinical validation of IL-17, there remains a significant therapeutic gap for large number of patients
 - HiSCR50 at 16 weeks tends to be ~ 15-30% (PBO adjusted), leaving substantial unmet need with opportunity for a differentiated therapy
 - Addition of B-cell targeted therapies has the potential to improve overall clinical response compared with IL-17 alone

ZB-106 may address the efficacy gap raised for current IL-17 approaches in HS





Public Data in Multiple P3 Studies Shows IL-17 is Clinically Validated Pathway to Treat HS



Recent HS [Data					
	ompany (Asset)	abbvie Humira	U NOVARTIS Cosentyx	Bimzelx	ACELYRIN 🛆 Izokibep	
Ме	echanism	TNF-α	IL-17A	IL-17A/F	IL-17A/A	
Adm	inistration	SC	SC/IV	SC	SC	
	Phase	PIONEER I & II Phase 3	SUNSHINE & SUNRISE Phase 3	BE HEARD I & II Phase 3	Phase 2b Part A Open- Label	
Dosing		40mg QW for 12W	300mg Q2W for 16W	320mg Q2W for 16W	160mg QW for 12W	
Tota	al Patients	n=633	n=360	Est. n=579	n=30	
Efficacy	Non-Placebo Adjusted	42% - 59% at W12	42% - 45% at W16	48% - 52% at W16	71% at W12	
(HiSCR50)	Placebo-Adjusted	16% - 31% at W12	11%+ at W16	19% - 20% at W16	NA	
Safety /	Most Common AEs	Headache 9% - 13% at W12	Headache 9% - 12% at W16	Hidradenitis 7% - 9% at W16	Injection site reactions	
Tolerability	Candidiasis	0% at W12 ¹	0% - 3% at W12 ¹	4% - 7% at W16	0% at W16 ²	

Sources: Company Presentations, Publications and Research. 1. Represents data from psoriasis trial. 2. Represents safety data from psoriatic arthritis trial.



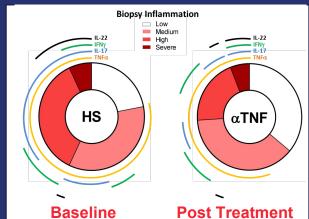


Limitations of Current Approaches in HS



Scratching the Surface

 Treatment with anti-TNFα therapy fails to downregulate inflammatory cytokines (IL-22, IL-17, IFNγ) in moderate-severe lesions¹



 The presence of dermal tunnels increased the amount of time needed to achieve HiSCR50 with adalimumab²

Tunnelling into HS

- Recent literature highlights the role of dermal tunnels in the pathogenesis of HS^{2,3}
- Dermal tunnels in HS are characterized by increased cellular infiltration including neutrophils; and Sabat et al. demonstrated increased BAFF production by neutrophils³
- Transcriptomic profiling highlights increased IL-17A and BAFF expression in dermal tunnels^{3,4}
- Dermal tunnels were additionally shown to have increased numbers of B cells³ and B cell targeting therapies are currently under investigation in HS⁶
- One significant drawback of the HiSCR is the lack of a dynamic measurement of draining tunnel; therefore, not fully capturing the anti-inflammatory properties of a therapeutic
- The International Hidradenitis Suppurativa Severity Score System (IHS4) was developed to assess inflammatory nodules (1 point), abscesses (2 points) and draining tunnels (4 points)





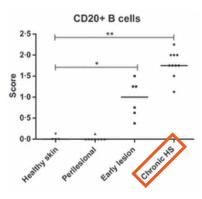




B-cells in HS lesions

- HS lesions have increased numbers of CD20+ B and CD138+ Plasma Cells¹
- B-cell activating factor (BAFF) is produced by B cells, macrophages, dendritic cells, and neutrophils
- BAFF regulates B-cell survival, maturation and differentiation

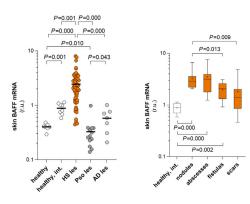
CD20+ B cells in HS Lesions



BAFF in HS

- Increased BAFF expression in HS lesions^{2,3}
- Lesional upregulation of BAFF and BAFF receptors is attributed to B cells and plasma cells^{2,4}
- Neutralization of BAFF with a soluble variant of BAFF-R in HS lesional explants reduced the expression of key genes associated with B and plasma cell function²

BAFF gene expression in HS



Clinical data in HS

- B cell depletion with rituximab provided therapeutic benefit⁵
- 4/5 cases report complete remission of HS lesions⁵

Rituximab in HS case report summary

Complete Remission	No Remission		Complete Remission	No Remission
4	1	HS History (cont), n (%)		
1/3 (1:3)	1/0 (-)	Hurley Stage ^c		
46.2 (20.5)	54 (-)	I	2/3 (66.7)	1/1 (100.0)
		п	1/3 (33.3)	0/1 (0.0)
1/2 (50.0)	1/1 (100.0)	Comorbidities, n (%)		
2/2 (100.0)	1/1 (100.0)	RA	2/4 (50.0)	0/1 (0.0)
0/2 (0.0)	1/1 (100.0)	+ PsQ	0/4 (0.0)	1/1 (100.0)
		PV + DDD	1/4 (25.0)	0/1 (0.0)
		ICTO + CAAMR	1/4 (25.0)	0/1 (0.0)
1/3 (33.3)	0/0 (0.0)			
1/3 (33.3)	0/0 (0.0)			
1/3 (33.3)	0/0 (0.0)			
	Remission 4 1/3 (1:3) 46.2 (20.5) 1/2 (50.0) 2/2 (100.0) 0/2 (0.0) 1/3 (33.3) 1/3 (33.3)	Remission Remission 4 1 1 13 (1:3) 1/0 (c) 46.2 (20.5) 54 (c) 1/2 (50.0) 1/1 (100.0) 2/2 (100.0) 1/1 (100.0) 1/1 (100.0) 1/3 (33.3) 0.0 (0.0) 1/3 (33.3) 0.0 (0.0) 1/3 (33.3) 0.0 (0.0) 1/3 (33.3) 0.0 (0.0) 1/3 (33.3) 0.0 (0.0) 1/3 (33.3) 0.0 (0.0) 1/3 (33.3)	Remission Remission	Remission Remission Remission

CAAMR, chronic active antibody-mediated rejection; DDD, Dowling Degos disease; HS, hidradenitis supporativa; ICTO, idiopathic carpotanal osteolysis; E2, D pocisasis; FV, pemphigus vulgaris; R4, theumatoid arthritis Smoking, BMI, and family history of HS was not reported in 24 complete remission cases.

1. Van der Zee et al. 2012. Br J Derm; 2 Rumberger et al. 2020. J Inflam Research; 3.Sabat et al 2022. JACI; 4. Gudjonsson et al. 2020. JCI Insight.; 5. Seigel et al 2023. JCutanMedicSurgery



^bHS location was not reported in 1/4 complete remission cases and 1/1 no remission cases.

^cHurley stage was not reported in 1/4 complete remission cases.

Anti-CD20+ and Anti-BAFF Treatment in HS ZB-106 Therapeutic Potential Opportunity



Rituximab in HS

- Chimeric mAb to CD20, upon binding triggers cell death
- · Used off label in a range of autoimmune diseases
- Case reports in HS (systematic review 2023)¹
 - Majority with complete remission when treated with Rituximab did not respond to previous therapy including antibiotics and surgical excision, antibiotics alone, and isotretinoin with benzoyl peroxide.

Case report breakdown – 80% full remission¹

Supplementary Table 1. Demographic and Clinical Features of Patients with HS Treated with Rituximab

	Complete Remission	No Remission		Complete Remission	No Remission
Number of Cases, n	4	1	HS History (cont), n (%)		
Female/Male (ratio)	1/3 (1:3)	1/0 (-)	Hurley Stage ^c		
Mean Age (stdey)	46.2 (20.5)	54 (-)	I	2/3 (66.7)	1/1 (100.0)
Risk Factors, n (%)a			п	1/3 (33.3)	0/1 (0.0)
Smoking History	1/2 (50.0)	1/1 (100.0)	Comorbidities, n (%)		
Overweight or Obese	2/2 (100.0)	1/1 (100.0)	RA	2/4 (50.0)	0/1 (0.0)
Family History of HS	0/2 (0.0)	1/1 (100.0)	+ PSO	0/4 (0.0)	1/1 (100.0)
HS History, n (%)			PV + DDD	1/4 (25.0)	0/1 (0.0)
HS Location ^b			ICTO + CAAMR	1/4 (25.0)	0/1 (0.0)
Inguinal + Back	1/3 (33.3)	0/0 (0.0)			
Inguinal + Abdomen	1/3 (33.3)	0/0 (0.0)	-		
Gluteal	1/3 (33.3)	0/0 (0.0)	-		
			-		

CAAMR, chronic active antibody-mediated rejection; DDD, Dowling-Degos disease; HS, hidradenitis suppurativa; ICTO, idiopathic carpotarsal osteolysis; PsQ, psoriasis; PV, pemphigus vulgaris; RA, rheumatoid arthritis

Implications for ZB-106

- CD20+ B-Cells
 - ZB-106 has direct effect reducing CD20+ B-cells
- BAFF
 - Increased BAFF expression in HS lesions^{2,3}
 - Lesional upregulation of BAFF and BAFF receptors is attributed to B cells and plasma cells^{2,4}
 - Dysregulated BAFF expression contributes to autoimmune diseases via effects on abnormal B-lymphocyte activation, proliferation, survival, and immunoglobulin secretion⁵
 - Murine models in RA provide evidence of synergistic activity of Anti-BAFF and Anti-IL-17
 - ZB-106 has been shown to have a clinical impact in diseases with elevated BAFF (e.g. SLE) with significant decreases in B-cells and serum immunoglobulins⁶
- ZB-106 → Opportunity to improve clinical outcomes
 - Impacting CD20+ B-cells directly
 - Inhibition of abnormal B-Cell activation and immunoglobulin secretion

Sources: 1. Seigel et al 2023. JCutanMedSurgery; 2. Rumberger et al. 2020. JInflamResearch; 3. Sabat et al 2022. JACI; 4. Gudjonsson et al. 2020. JCI Insight.; 5. Bosello et al 2007. IntJImmunopatholPharmacol; 6. Merrill et al. 2016. Ann Rheum Dis



^a Smoking, BMI, and family history of HS was not reported in 2/4 complete remission cases.

^b HS location was not reported in 1/4 complete remission cases and 1/1 no remission cases.

^cHurley stage was not reported in 1/4 complete remission cases.



ZB-106 in Hidradenitis Suppurativa Clinical Development Plan Rationale

Rationale to study HS: Opportunity for superior clinical response based upon IL-17 + BAFF inhibition

- IL-17 blockade in HS is a validated target with clear evidence of efficacy
- HiSCR50 at 16 weeks tends to be ~ 50% (placebo adjusted HiSCR50 ~15-30%), leaving substantial unmet need
- Translation data indicate an interplay between B cells and the IL-17 pathway in HS
- Case reports have shown that rituximab has an impact on HS clinical course

Dosing Rationale

- We have clear dosing windows for ZB-106
- ZB-106 clinical safety supports 6-fold "window" between max target engagement and max human dose tested





Proposed Phase 2 Trial Design

Key inclusion criteria:

- Moderate to Severe HS
- Hurley Stage II/III
- Total abscess and inflammatory count (AN) ≥ 3

Double Blind, placebo-controlled trial



Primary efficacy period (16 weeks)

Key efficacy endpoints:

- HiSCR (50, 75, 100)
- Improvement in baseline AN counts
- IHS4
- PGA
- DLQI
- PK / PD assessments

Key safety endpoints:

- General Safety and Tolerability
- Severe infection
- Neutropenia

Note: Clinical development plans are subject to ongoing review, regulatory feedback





ZB-106: Optionality in additional indications



Multiple External Readouts Continue to Validate Both IL-17 and BAFF Pathways in Additional Diseases



	Unmet need	Evidence validating relevance of IL-17 and BAFF inhibition	External de-risking events
Sjögren's syndrome (SS)	 It is estimated that there are 250,000 – 350,000 people living with Sjögren's in 	Multiple clinical readouts have validated the BAFF Pathway in Sjögren's including	 Argenx efgartigimod phase 2 data in 2024
	 the U.S.¹ Some estimates of the total global patient 	 Novartis phase 2b data with BAFF-R lanalumab (VAY736) 	 Novartis BAFF-R lanalumab (VAY736) phase 3 2027 Remegen
	burden approach ~4M, with a smaller subset patients presenting most severely	Remegen Telitacicept ph2 data	
	 High unmet need as there are no FDA- approved treatments for Sjögren's 	IL-17 pathway continues to be explored pre- clinically for Sjögren's Syndrome	Telitacicept phase 3 readout 2027
Systemic Lupus Erythematosus (SLE)	 Systemic lupus erythematosus (SLE) is the most common form of lupus, 	tabalumab (BAFF) previous showed statistically significant efficacy in large 1,124 patient Ph3 study	Novartis BAFF-R lanalumab (VAY736)
	affecting approximately 70 percent of an estimated 5 million people with lupus worldwide ²	Benlysta (BAFF) is approved in SLE and Lupus Nephritis (LN)	 Remegen Telitacicept
	 Approximately 170,000-200,000 Americans live with SLE. It is a chronic, incurable autoimmune disease producing autoantibodies that can attack almost any system in the body 	IL-17 pathway continues to be explored pre- clinically for SLE and LN	



Conclusion Investment Highlights



Experienced and proven leadership

- Experienced drug developers and asset hunters led by ex-Arena leaders
- Product approvals & commercialization
- Significant corporate transactions

Track Record of Execution

- Deep relationships with KOL community
- Prior CRO leadership history within team enhances our Sponsor status
- Recent precedent of on-time execution in crowded I&I spaces (UC, AD, etc.) includes absorbing COVID impact without delays

Multiple Phase 2 programs

- Validated mechanisms pursuing innovative new development paths
- Potential Best in Class attributes combined with strategic clinical development to enhance differentiation

Strong and committed financial backing with long-term alignment

- Investors aligned with long-term commitment
- Successful PIPE transformation, including \$65M in funding through Business Combination

Abbreviations: AD, Atopic Dermatitis; CRO, Contract Research Organization; KOL, Key Opinion Leader; UC. Ulcerative colitis



ZB-168: A Potential Best-in-Class Anti-IL7R Inhibiting Both IL7 and TSLP Pathways



ZB-168 – Asset Overview



About ZB-168

- IL7R α implicated in two key immune pathways¹: IL7 and TSLP
- Only anti-IL7R program to date with human clinical data showing impact on key T-cell subpopulations²
- Well tolerated in >90 subjects and patients dosed in Phase 1 studies conducted by Pfizer^{2,3}
- Utility in multiple T-cell driven diseases⁴

Indication Areas of Potential Interest

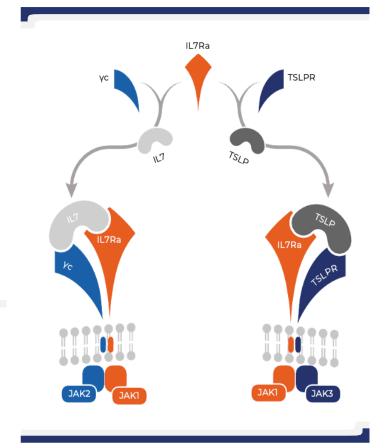
- Respiratory
- Dermatologic
- Gastrointestinal

Mechanism of Action

- Inhibition of IL7R α blocks both IL7 and TSLP signaling 5
- Blocking IL7R α selectively inhibits survival/activity of effector memory and central memory CD4 and CD8 T cells while preserving the T_{regs} compartment^{1, 5}
- T cell transcriptomics show downregulation of genes associated with activation, differentiation and trafficking of Th1, Th2 and Th17⁶
- Blocking TSLP reduces Asthma exacerbations in both Th2 high and low populations⁷

Market Opportunity

- Advances in the field further validate IL7 and TSLP in multiple type Th1 & Th2 immune disorders with significant global opportunities
- Potential 1st-in-class opportunities within several indications



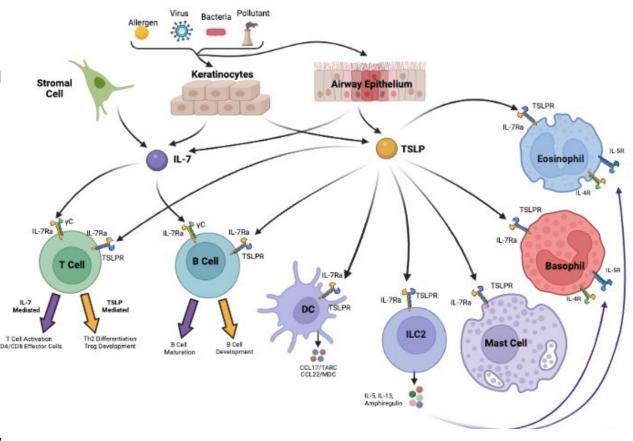
1. doi: 10.1038/s41467-018-06804-y, 2. 10.1172/jci.insight.126054, 3. Clinical study report, 4. doi:10.3389/fimmu.2020.01557, 5. https://www.frontiersin.org/articles/10.3389/fimmu.2020.01557/full, 6. Herold, K. C. et a. JCI Insight. 2019; 4(23):e126054. 7. doi: 10.1056/NEJMoa2034975



ZB-168 Enables Broad Impact on Epithelial-Driven Inflammationby Targeting both TSLP and IL-7

TSLP and IL-7 Pathways

- Thymic stromal lymphopoietin (TSLP) is an epithelial-derived cytokine primarily expressed in the lungs, skin and gastrointestinal tract¹
- TSLP is released from the epithelium by disease exacerbating environmental factors and is an important amplifier of Th2 immune response, including the production of IL-4, -5, -9 and -13.1
- TSLP inhibition is clinically validated in severe asthma and has shown positive therapeutic benefit in additional Th2 driven diseases^{2,3}
- IL-7 is a growth factor that binds to the heterodimeric receptor of IL-7R: γ C and is critical for the survival, development and homeostasis of central and effector memory T cells⁴
- Due to the high expression of IL-7R on $T_{\rm eff}$ compared to $T_{\rm reg}$, inhibition results in a 20-fold greater activity in reducing $T_{\rm eff}$, leading to an increase in Treg:Teff ratio^{5, 6}
- Dual inhibition of TSLP and IL-7 has potential to modulate Th1, Th2, and Th17-driven inflammation in a targeted manner across a broad number of allergic and autoimmune diseases⁷









ZB-168 Has Broad Potential Therapeutic Applications

Inhibition of IL7R promotes a normalisation in T_{reg} : $T_{effector}$ T-cell ratios⁴





Multiple Potential Indications in Key Therapeutic Areas

- Respiratory
- Dermatologic
- Gastrointestinal



TSLP is an early player in triggering airway inflammation via the activation of several immune cells such as dendritic cells, innate lymphoid cells, monocytes, macrophages and mast cells⁵

^{1.} Eosinophilic esophagitis; 2. Chronic rhinosinusitis with nasal polyps; 3. Chronic spontaneous urticaria; 4. doi.org/10.3389/fimmu.2018.02692 & doi.org/10.1016/j.isci.2020.101421; 5. https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6436879/

${\color{red} 2}$ ZB-168 is Potential Best-in-Class and Only Non-Partnered IL7R α



Asset in Development















	ZB-168	ADX-914	OSE-127	GSK2618960	Tezepelumab	UPB-101
Type of Antibody	Human	Human	Humanised	Humanised	Human	Human
Target	Ι L7 Rα	IL7Rα	IL7Rα	IL7Rα	TSLP	TSLPR1
Mode of Administration	SC ²	SC	IV ³	IV	SC	IV
Lead Indications	Alopecia Areata	Atopic Dermatitis	Ulcerative Colitis; pSS ⁴	Programme inactive	Asthma, CRSwNP	Asthma
*Current Phase	Phase 1b/2	Phase 1b/2	Phase 2	Phase 1b	Approved	Phase 1
Humans Exposed	HVs ⁵ : 60 subjects Patients: 33 subjects	HVs: ~32 subjects Patients: asthma	HVs: ~63 subjects Patients: Ulcerative colitis	HVs: 18 subjects Patients: None	Patients: >1,000	HVs: 46 subjects Patients: 0

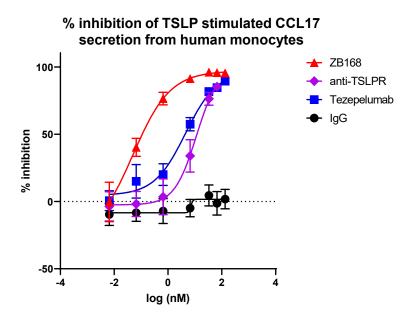
*As of September 2022; 1. Thymic stromal lymphopoietin receptor; 2. Subcutaneous; 3. Intravenous; 4. Primary Sjögren's syndrome 5. Healthy volunteers











- ZB-168 is nearly **10-fold** more potent than AZ/AMG's tezepelumab, and tezepelumab does not inhibit IL7 signaling
- ZB-168 is >300-fold more potent than Q32Bio / Horizon's ADX-914 in TSLP-induced markers, but similar in IL7-induced pSTA5⁴

	v zurabio	Upstream BIO*	AstraZeneca AMGEN	@32BIO HORIZON
Asset	ZB-168 <i>(IL7R</i> α <i>)</i>	UPB-101 (α-TSLPR)	Tezepelumab (TSLP)	ADX-914 (IL7Rα)
	IL7Rα mAb	α-TSLPR mAb	TSLP mAb	IL7Rα mAb
TSLP-Induced Signals	 7.5 ng/ml / 0.05nM (CCL17)⁽¹⁾ 11 ng/ml / 0.07nM (CCL22)⁽¹⁾ 0.08 nM (CCL2)⁽⁴⁾ 	• 16.1 ng/ml / 0.1nM (CCL17) ⁽³⁾	• 67 ng/ml / 0.44nM (CCL17) ⁽³⁾	• 24 nM (<u>CCL2</u>) ⁽⁴⁾
IL7-Induced Signals	• 0.46nM (pSTAT5) ⁽²⁾	Neg	Neg	 0.6 nM (IL7 at 0.25ng/ml)⁽⁴⁾ 2.1nM (IL7 at 2.5ng/ml)⁽⁴⁾

^{1.} Zura Internal Data, 2. doi: 10.1172/jci.insight.126054, 3. doi: https://doi.org/10.1124/jpet.121.000686, 4. BMS patent https://patents.google.com/patent/WO2020154293A1/en



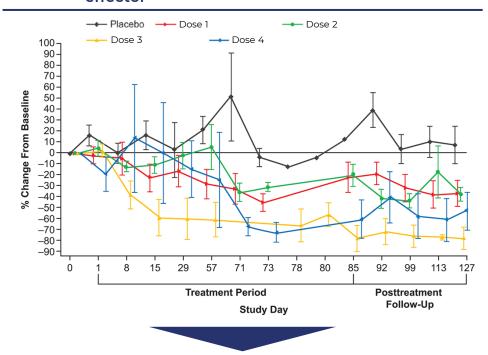


ZB-168 is Further Differentiated by T_{effector} Cell Inhibition



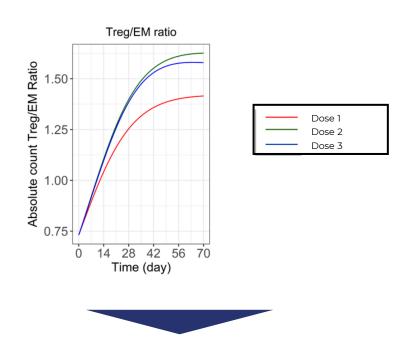
Clinical data in patients demonstrates impact on key T-cell subpopulations

CD8+ T_{effector} cells¹



- Up to 70% reduction in CD8+ T_{effector} memory cells
- Similar reductions seen for naïve and central memory T-cells

Ratio of T_{reg} to T_{effector} cells²



- Increases in ratios observed for all doses tested
- ZB-168 shows 20x greater potency for $T_{\text{effector}\,\text{memory}}$ vs T_{req} cells

1. doi: 10.1172/jci.insight.126054, 2. doi:10.1208/s12248-019-0401-3





Summary of Clinical Data



- 93 subjects dosed with ZB-168 to date, including 33 patients with Type 1 Diabetes¹ and Multiple Sclerosis²
- In Phase 1 single ascending dose study, ZB-168 was generally well tolerated with no deaths and no subjects discontinued, or dose reduced due to Adverse Events (AEs)³
- Demonstrated significant clinically relevant biologic effects that may lead to a therapeutic benefit¹
- Demonstrated proof of mechanism in a Phase 1b study of patients with recent onset Type 1 Diabetes (activity in inducing tolerance)¹





Targeting Anti-IL33, an Alarmin with Potential in Multiple Indications



torudokimab - Asset Overview



About torudokimab

- IL-33 implicated in driving Th2 biology through ST2 and Th1/Th17 through alternative signaling¹
 - Drug well tolerated in Phase 1 and 2 trials conducted by Eli Lilly²:
 - 141 healthy volunteers in Phase 1 study
 - 103 patients with moderate to severe atopic dermatitis
 - Utility in diseases driven by epithelial inflammation

Indication Areas of Potential Interest

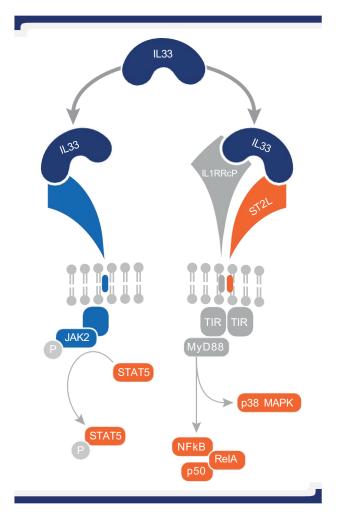
- Respiratory
- Dermatologic
- Gastrointestinal
- Orphan autoimmune

Mechanism of Action

 Inhibition of IL-33 blocks both ST2 and RAGE signaling³

Market Opportunity

- Advances in the field further validate IL-33 in multiple respiratory disorders with significant global blockbuster opportunities
- Potential 1st and best-in-class opportunities within multiple indications
- Validated pathways in COPD4 and asthma⁵



1. Suzanne Cohen et al. 2015 Nature, 2. https://clinicaltrials.gov/ct2/show/NCT03913260; https://clinicaltrials.gov/ct2/show/NCT03343587; https://clinicaltrials.gov/ct2/show/NCT03831191, Section 6.1, DSUR for period 23-Sep-2019 to 22-Sep-2020, 3. Okragly et al Journal of Inflammation Research 2021:14 3823–3835, 4 . https://doi.org/10.1016/S2213-2600(22)00005-4, 5. doi:10.1056/NEJMoa2024257



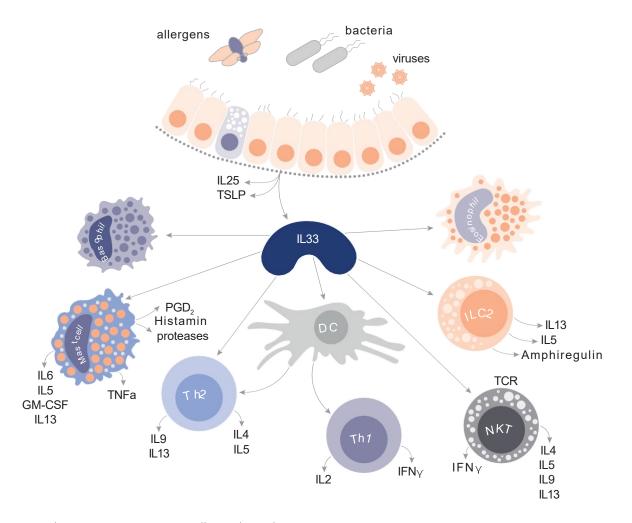


Targeting IL-33 In Epithelial Driven Diseases



IL-33 Pathway

- IL-33 is a member of the IL1 cytokine family that is constitutively expressed in structural and lining cells including fibroblasts, endothelial, and epithelial cells of skin, gastrointestinal tract, and lungs¹
- IL-33 is released from the epithelium by disease exacerbating environmental factors and is an important amplifier of innate inflammation during exacerbations²
- Polymorphisms in IL33 and ST2 are associated with increased eosinophil production as well as respiratory diseases such as COPD and severe asthma.
- IL-33 inhibition clinically validated in severe asthma, COPD³, and subsets of other epithelial disorders⁴
- Pre-clinical data demonstrates superior activity of torudokimab compared with etokimab suggesting the potential for best-inclass activity⁵
- Emerging biology suggests expanding opportunity for IL-33 in fibrotic and autoimmune conditions⁶



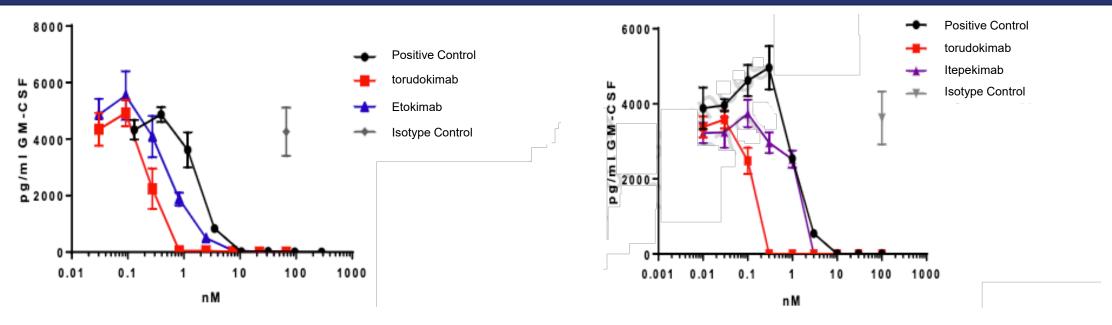
1. Chan, 2019. Frontiers Immunol, 2. doi.org/10.1016/j.cyto.2022.155891, 3. https://doi.org/10.1038/ng.323 and doi:10.1016/j.jaci.2020.04.051, 4. ::https://doi.org/10.1016/j.cyto.2022.155891, 3. https://doi.org/10.1038/ng.323 and doi:10.1016/j.jaci.2020.04.051, 4. ::https://doi.org/10.1016/j.cyto.2022.35600(22)00005-4; doi:10.1026/scitransImed.aax2945,5. Sci Trans Med., Zura Bio Internal data, 6. doi: 10.1111/jimm.12174; https://doi.org/10.3389/fphys.2021.781012 and https://doi.org/10.3389/fmed.2021.739489





torudokimab Has Potential for "Best-in-Class" Activity

Torudokimab was 2.9 and 5.5 fold more potent than etokimab and itepekimab, respectively, inhibiting IL-33-induced GM-CSF production by human mast cells



Antibody	k _{on} (M ⁻¹ s ⁻¹)	k _{off} (s ⁻¹)	k _d (pM)	Torudokimab Potency
torudokimab (LY3375880)	1.7×10 ⁶	6.7x10 ⁻⁵	39	
etokimab (AnaptysBio)	9.4x10 ⁵	1.2x10 ⁻⁴	112	2.9x
itepekimab (Regeneron)	7.6x10 ⁵	1.6x10 ⁻⁴	215	5.5x

Source: Zura Bio Internal data





Summary of Clinical Data



- >100 subjects dosed with torudokimab to date, including in a Phase 2 trial in atopic dermatitis¹
- In Phase 1 study, torudokimab was well tolerated and no safety concerns were identified in either the SAD or MAD portions
- The target engagement evaluation suggested binding to IL-33 and treatment emergent ADA had no apparent impact on PK or target engagement
- In Phase 2 study in atopic dermatitis, torudokimab was well tolerated and no safety concerns identified; despite overall non-significant efficacy, responder analyses confirms key biomarker reductions (IL13, periostin and CCL17/TARC) and no ADA impact¹





Building the Next Immunology Leader