THERAPEUTICS

Corporate Presentation February 2024



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Investment Highlights (NASDAQ: VYNE)

Advancing novel BET inhibitor platform to improve the lives of patients suffering from immuno-inflammatory conditions

Innovative Target & Approach	 BET inhibition represents a novel target for the treatment of autoimmune diseases: Addressing the complex signaling of immuno-inflammatory diseases by disrupting inflammatory gene transcription in T cells Potential across broad range of immune-mediated diseases representing multi-billion-dollar opportunities
Clinical Stage Pipeline	 VYN201: Phase 1b PoC data in vitiligo suggest VYN201 has the potential to be category leader VYN202: Supported by robust preclinical data across multiple diverse models of autoimmune disease, Phase 1a SAD/MAD expected to be initiated in Q2 2024¹
Potential for Multiple Clinical Catalysts	 VYN201: Phase 2b trial expected to be initiated in Q2 2024, with top-line results anticipated in mid-2025 VYN202: Phase 1a SAD/MAD read-out anticipated 2H 2024 (2) Phase 1b PoC studies in plaque psoriasis and rheumatoid arthritis planned, with top-line results anticipated in 2H 2025
Experienced Team & Strong Balance Sheet	 Seasoned leadership team with demonstrated track record of progressing programs through regulatory approval Cash: \$93.3M²; No debt Q4 2023 financing with syndicate of leading healthcare investors expected to provides cash runway through the end of 2025

1. Subject to IND clearance by FDA; 2.Cash, cash equivalents, restricted cash and marketable securities as of December 31, 2023; Shares outstanding: ~14.1M; Fully-diluted shares outstanding: ~43.8M

Building a Leading Early-Stage Pipeline to Address Unmet Needs in I&I Conditions

Program Indication(s)	Indiantian (a)	Route of	Current Stage		ute of Current Stag		Status / Next	Diakto
	Administration	Preclinical	IND-Enabling	Phase 1	Phase 2		Rights	
InhiBET™ Platfo	orm - Library of NCE BE	T Inhibitors for An	y Indication Wo	rldwide				
VYN201 Soft pan-BD BET inhibitor	Nonsegmental Vitiligo	Topical					Phase 1 completedQ2 2024: Initiate P2b	Worldwide
VYN202	Moderate-to-Severe Plaque Psoriasis	Quel					 Q2 2024: Initiate P1 	
BD2-selective BET inhibitor	Moderate-to-Severe Rheumatoid Arthritis	- Oral					SAD/MAD	Worldwide

Ongoing evaluation for other autoimmune and fibro-inflammatory diseases



4 Based on current estimates. Targeted milestone related to VYN202 is subject to IND clearance.

InhiBET™ BET Inhibitor Platform

Bromodomain & Extra-Terminal Domain (BET) Inhibition for Immunology and Inflammatory Diseases





VYNE's Drug Design Strategy

Optimize benefit/risk profile of BET inhibitors to target autoimmune diseases

BD2

VYN201 Pan-BD BET Inhibitor

Maximize local effect & minimize systemic exposure

- Tissue targeted administration routes & formulations
- Soft drug / drug delivery strategies to reduce impact of BD1 inhibition on steady-state gene regulation

VYN202 BD2-Selective BET Inhibitor

Improve efficacy and tolerability through BD2-selectivity

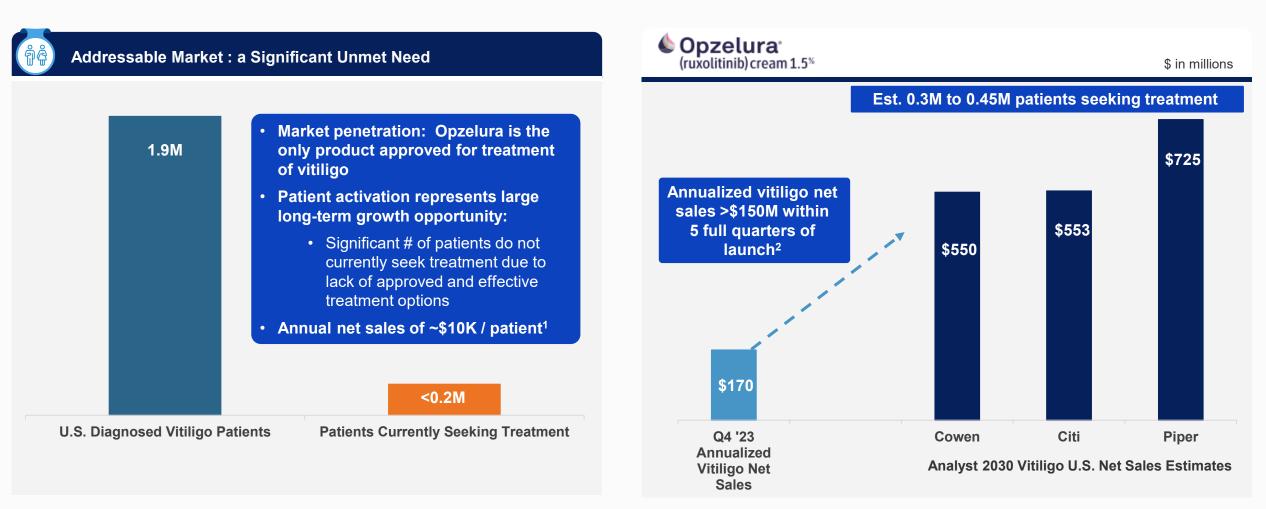
- Class-leading BD2 vs. BD1 selectivity for systemic administration
- BD2 activity more relevant to inflammatory gene expression
- Minimize BD1 inhibition to protect against steady-state gene disruption

Gilan et al, Science. 2020 April 24; 368(6489): 387–394
Dawson et al, Science 2020; Belkina, Nikolajczyk & Denis, J. Immunol. 2013

VYN201: Vitiligo



Vitiligo Represents a Large and Growing Market Opportunity

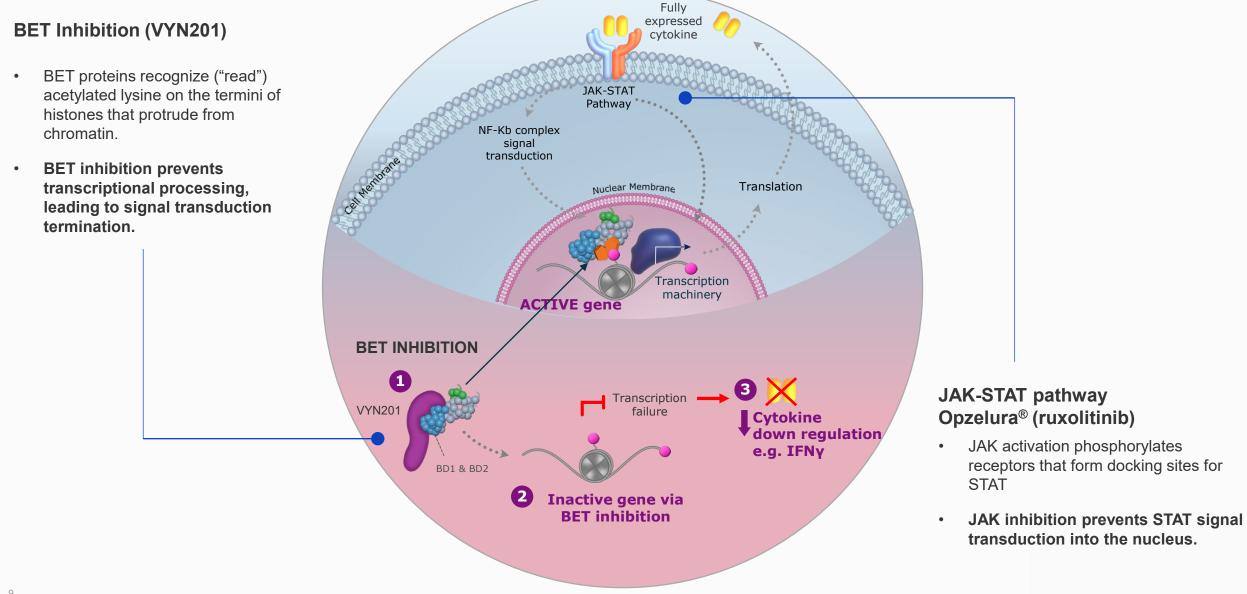


Only one drug approved, treatment is dominated by non-specific therapies including topical steroids and phototherapy

Source: Gandhi et al. JAMA Dermatol. 2022;158(1):43-50; Kruger. 2012;51(10):1206-1212; Rangu. J Clin Dermatol Ther. 2021;7:070; Pandya. AAD 2023 Presentation; Incyte Corporate Pres. Aug. 2023; TD Cowen research dated Sept. 2023; Piper research dated Jan. 2023; Citi research dated July 2023

1. Opzelura estimated pricing: \$2k per 60g tube*10 tubes per patient per year less GTN discount of 50% per Incyte mgmt.; 2. Estimated: Q4'23 net sales \$109mm with vitiligo representing ~40% of TRx per Incyte mgmt.

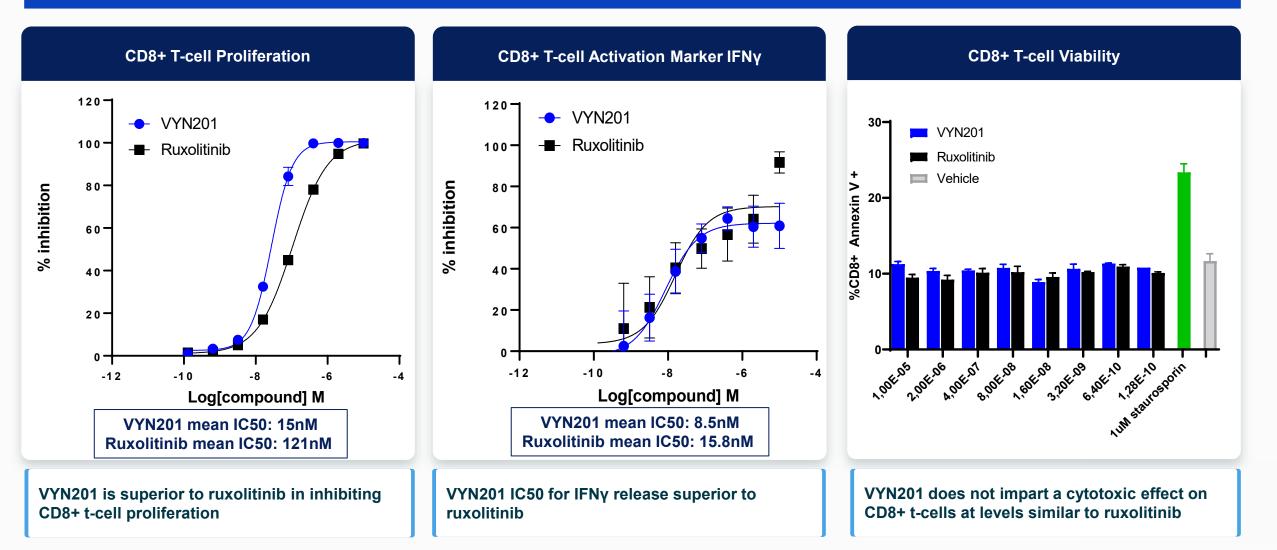
BET Inhibition – A Differentiated Treatment Strategy for Non-Segmental Vitiligo



Adapted from Gonzalez-Gay et al, Autoimmunity Rev, (2020) 19: 102429 and Rusinol and Puig, Int J Mol Sci, (2023) 24: 3391

Pathogenesis of Vitiligo is Primarily Linked to CD8+ T-Cell Proliferation and Hyperactivity

VYN201 has demonstrated marked inhibition of CD8+ t-cell expansion and activity at levels favorable to ruxolitinib



VYN201: Phase 1 Proof-of-Concept



VYN201: Phase 1b Study in Active Vitiligo Patients

Study Design

Treatment on the face and target lesion on trunk of active vitiligo patients for up to 16 weeks of QD treatment

- N = up to 30: 3 cohorts, evaluating 0.5%, 1.0% and 2.0% strengths
- Safety assessments include TEAEs, pharmacokinetics and local skin tolerance
- Exploratory efficacy assessments include F-VASI, biomarkers and photography

Key inclusion/exclusion criteria:

- Subjects with a clinical diagnosis of active non-segmental vitiligo. An active vitiligo lesion is defined as evidence of hypochromic areas / borders and/or confetti-like depigmentation and/or peri-lesional inflammation and/or Koebner phenomenon.
- Facial-Vitiligo Area and Severity Index Score (F-VASI) of ≥0.5.
- Two contralateral active vitiligo target lesions on non-facial anatomical areas. Non-facial target lesion areas should not include hands, wrists, feet, or elbows.
- The presence of leukotrichia should not exceed 50% of the full face or 50% of each non-facial target lesion.

Primary objectives of Phase 1b:



- 1. Assess safety, tolerability and pharmacokinetics
- 2. Evaluate VYN201's ability to arrest the progression of depigmentation in active vitiligo patients
- 3. Identify early evidence of repigmentation
- 4. Inform dose level / dose regimen of Phase 2b dose-ranging study

Vitiligo Disease Activity within PoC Study Designs



Patient Population and Asset Development Status

Patients with Active Disease Will Continue to Depigment in Areas that Show High Activity without Therapy⁵

	Disease Activity	Status		
VYN201 P1b (VYNE)	Active Only	 PoC achieved Phase 1b completed		
Litfulo [®] (ritlecitinib) P2b ¹ JAK3/TEC kinase inhibitor (<i>Pfizer</i>)	Active Only	 Pfizer currently enrolling P3 studies evaluating 50 mg QD dose in active & stable disease 		
Opzelura[®] (ruxolitinib) P2b³ JAK1/JAK2 inhibitor (<i>Incyte</i>)	Active & Stable	 1.5% BID dose approved in the U.S. (July 2022) and EU (April 2023) 		
Povorcitinib P2b ² JAK1 inhibitor (Incyte)	Active & Stable	Incyte currently enrolling P3 studies		
Rinvoq[®] (upadacitinib) P2b⁴ JAK1/JAK2 inhibitor (<i>AbbVie</i>)	Active & Stable	Phase 2b completed		
VXNE expects to enroll natients with active and stable				

VYNE expects to enroll patients with <u>active and stable</u> disease in P2b study **Fig 1:** Vitiligo of the hand with confetti-like depigmentation

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Fig 2: 16 weeks later Showing extension of depigmentation and new areas of confetti-like depigmentation

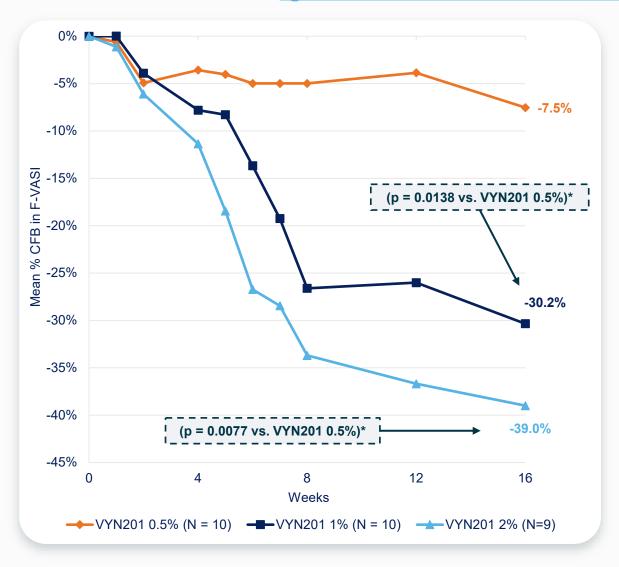


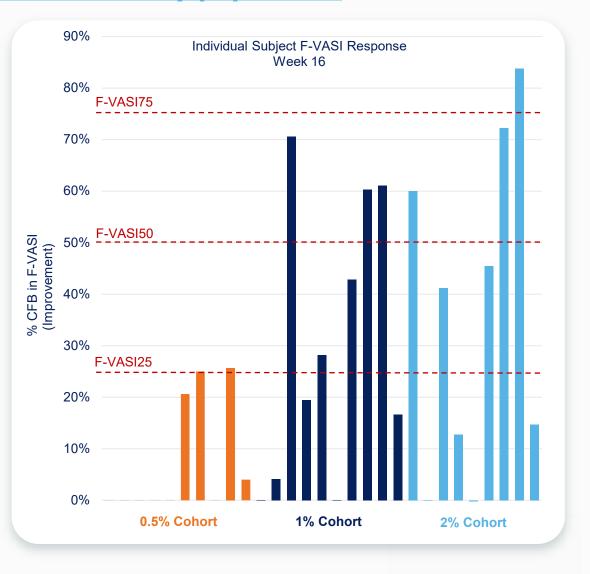
Physicians expect patients with active disease to be more difficult to treat

Source: Data on file; 1. NCT03715829; 2. NCT04818346; 3. NCT03099304; 4. NCT04927975;
 Sosa et al, J Am Acad Dermatol 2015

Promising Onset of Action and F-VASI Response

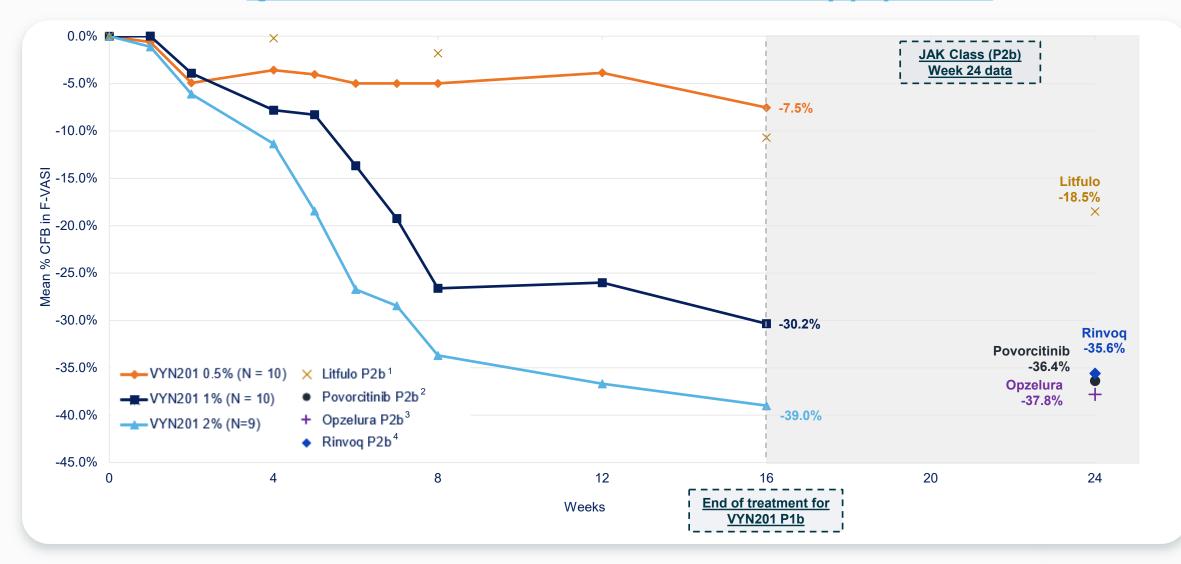
VYN201 Phase 1b: **QD Treatment in 100% active disease study population**





Demonstrated Competitive Efficacy at 16 Weeks vs. JAK Class at 24 Weeks

VYN201 Phase 1b: **QD Treatment in 100% active disease study population**



Note: Data is not based on Head-to-Head comparisons; Source: Clinicaltrials.gov; Study Publications: 1. NCT03715829 (LS mean %CFB for 50 mg QD); 2. NCT04818346 (LS mean %CFB for 45 mg QD); 15 3. NCT03099304 (LS mean %CFB for 1.5% BID); 4. NCT04927975 (LS mean %CFB for 11 mg QD);

Preclinical & Clinical Data Highlight Potential for Differentiated Product Profile

Characteristic	VYN201		Opzelura (Ruvolitinih)	Litfulo	Povorcitinib	
Characteristic	1%	2%	(Ruxolitinib) Cream 1.5%	(Ritlecitinib) 50mg ¹	45mg ²	
Novel MOA / JAK Class Alternative	✓		×	×	X	
Targeted Dosing Posology	QD		BID	QD	QD	
Rapid Onset of Action	✓		Moderate	×	Moderate	
	100% active disease study		Active & stable	100% active disease study	Active & stable	
Efficacy, % CFB F-VASI, <u>Week 16</u>	-30.2	-39.0	<u>disease study</u> P2b: -37.8 (<u>Week 24</u>) ³	-1.8 (<u>Week 8)</u> -18.5 (<u>Week 24</u>)	<u>disease study</u> -36.4 (<u>Week 24</u>)	
Efficacy, % F-VASI50, <u>Week 12</u> ⁵	20.0	33.3	P2b: 21.2 ³ P3: 29.2 ⁴	0.0 (<u>Week 8</u>) 15.4 (<u>Week 24</u>)	25.0	
Potential to Upregulate WNT Pathway ⁶	 ✓ 		×	X	×	
Safety Precaution	-		¥ "Black Box"	¥ "Black Box"	X Expect "Black Box"	
Systemic Exposure	Low (Cmax <1 nM)		Cmax/AUC: 449nM / 3215nM	-	-	

Data is not based on Head-to-Head comparisons Source: Clinicaltrials.gov; Data on file 1.NCT03715829 2. NCT04818346; 3. NCT03099304; 4. Pooled analysis TRuE-V1 and TRuEV2 Incyte Corporate Presentation dated July 19, 2022; 5. Week 16 data for JAK class not available; 6. Based on preclinical data

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Phase 1b Select Images

Subject with near-complete depigmentation (High FVASI)



Baseline



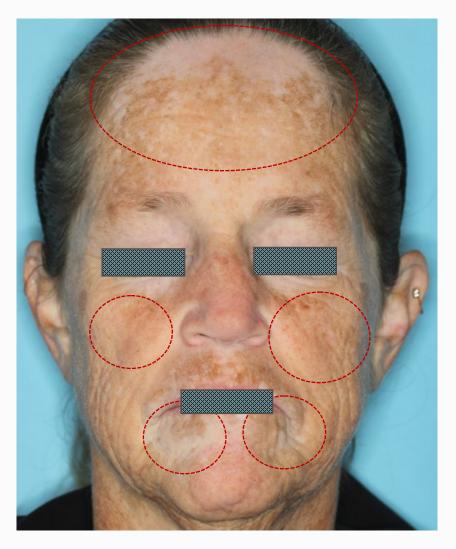
Week 16

(0.5% cohort, Fitzpatrick skin type: 5)

Phase 1b Select Images Subject with significant repigmentation response



Baseline



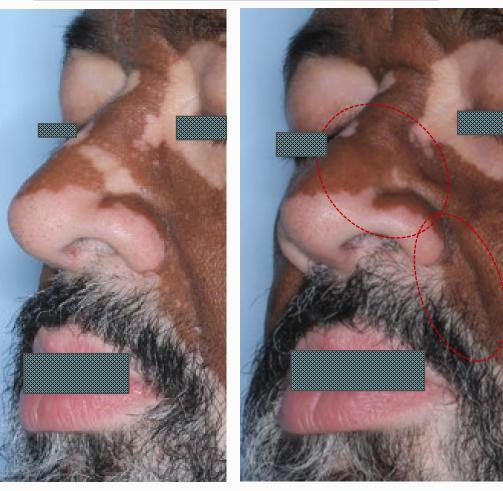
Week 16



(2.0% cohort, Fitzpatrick skin type: 2)

Phase 1b Select Images Subject examples with marked active disease

Confetti-like depigmentation presentation



Inflamed vitiligo presentation



Baseline



Baseline Week 16 (1.0% cohort, Fitzpatrick skin type: 6)

Week 16 (2.0% cohort, Fitzpatrick skin type: 5)

Key Takeaways from VYN201 Phase 1b Results

- Significant clinical response shown with rapid onset of action
- Clear evidence of dose response



- Efficacy data suggest potential to be category leader
- Favorable efficacy results and onset of action compared with the JAK competitive landscape in a more difficult to treat patient population (active disease vs. stable disease)
- Demonstrated favorable safety and tolerability profile to date
- Low systemic exposure levels support "soft" drug design



Believed to be first clinical demonstration of BET inhibitor's effect in autoimmune disease¹



VYN201 Phase 2b Study Design Summary



Randomized, double-blinded, vehicle-controlled Phase 2b trial with separate active treatment extension phase evaluating the efficacy, safety & pharmacokinetics of VYN201 in the treatment of non-segmental vitiligo



Trial size: N=~150 to 200 patients with non-segmental vitiligo (including patients with active and stable disease) N=40 to 50 / arm, evaluating 3 or 4 arms of once-daily treatment (including vehicle)



Duration: 24 weeks with extension to 52 weeks

Key efficacy endpoints:

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Primary: Secondary:

Proportion of subjects achieving FVASI50 at Week 24 vs. Vehicle Proportion of subjects achieving TVASI50 at Week 52 Proportion of subjects achieving FVASI25/75 at Week 24 and 52 %CFB in FVASI score at Week 24 and 52

Key safety assessments:

- Treatment emergent adverse events
- Local skin tolerability assessments
- Clinical laboratory assessments (hematology, chemistry, urinalysis, FSH), Physical exam/vitals, PK

VYN202: BD2 selective BET inhibitor



VYNE's Drug Design Strategy

Optimize benefit/risk profile of BET inhibitors to target autoimmune diseases

VYN201 Pan-BD BET Inhibitor

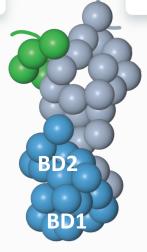
Maximize local effect & minimize systemic exposure

- Tissue targeted administration routes & formulations
- Soft drug / drug delivery strategies to reduce impact of BD1 inhibition on steady-state gene regulation

VYN202 BD2-Selective BET Inhibitor

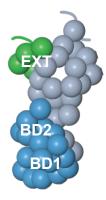
Improve efficacy and tolerability through BD2-selectivity

- Class-leading BD2 vs. BD1 selectivity for systemic administration
- BD2 activity more relevant to inflammatory gene expression
- Minimize BD1 inhibition to protect against steady-state gene disruption



Maximizing On-target Potency vs. BD2 and Minimizing Affinity to BD1 May Be The Key to Optimizing the Benefit/Risk Profile of BET Inhibitors for Autoimmune Diseases

VYN202 is believed to be the most potent and BD2-selective BET Inhibitor in development¹ which is designed to improve efficacy and tolerability



BD2 activity is **associated with inflammatory gene induction** that drives inflammatory responses in autoimmune disease

BD1 regulates "housekeeping" gene activity



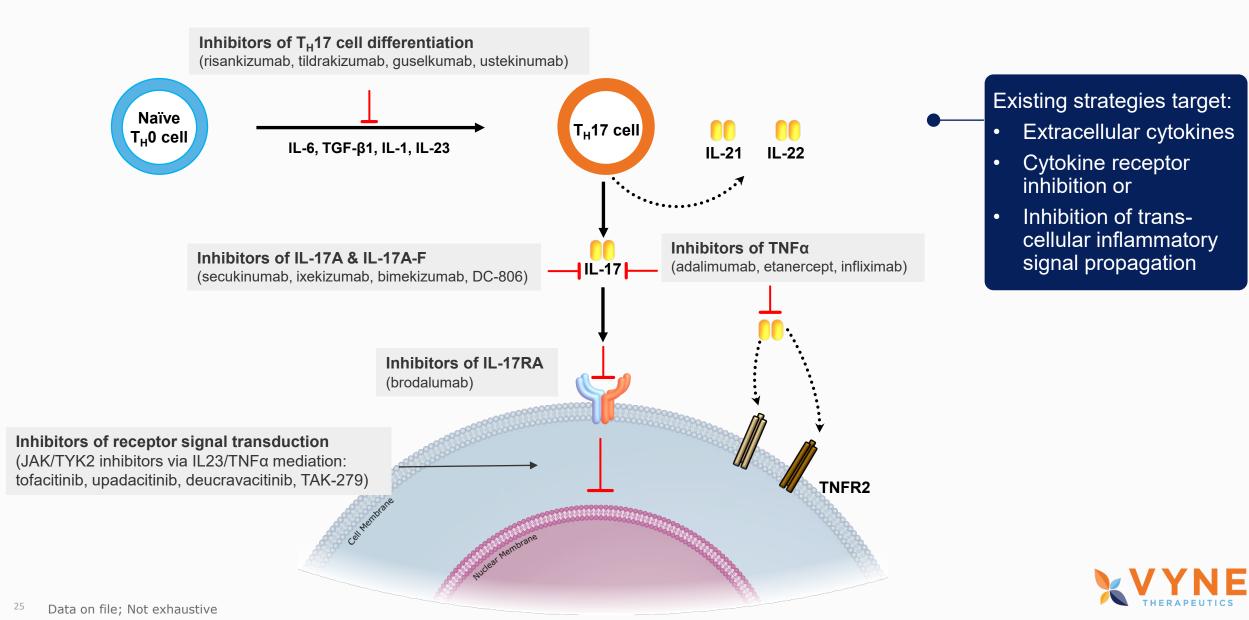
Compound ID	Potency vs. BD2* (nM)	Selectivity** (BD1/BD2)	
VYN202 (VYNE)	<	>>>>	
NUV-868 (Nuvation) ²	2	1,460x (FRET)	
ABBV-744 (AbbVie) ³	28	753x (FRET)	
GSK620 (GSK) ⁴	79	220x	
Pelabresib (Constellation) ²	17	5x (FRET)	
ABBV-075 ³	13	2.6x	
MK-8628/OTX-015 ⁵	26	1.5x	
BI-894999 ⁶	41	0.1x	

*Lower number denotes higher potency

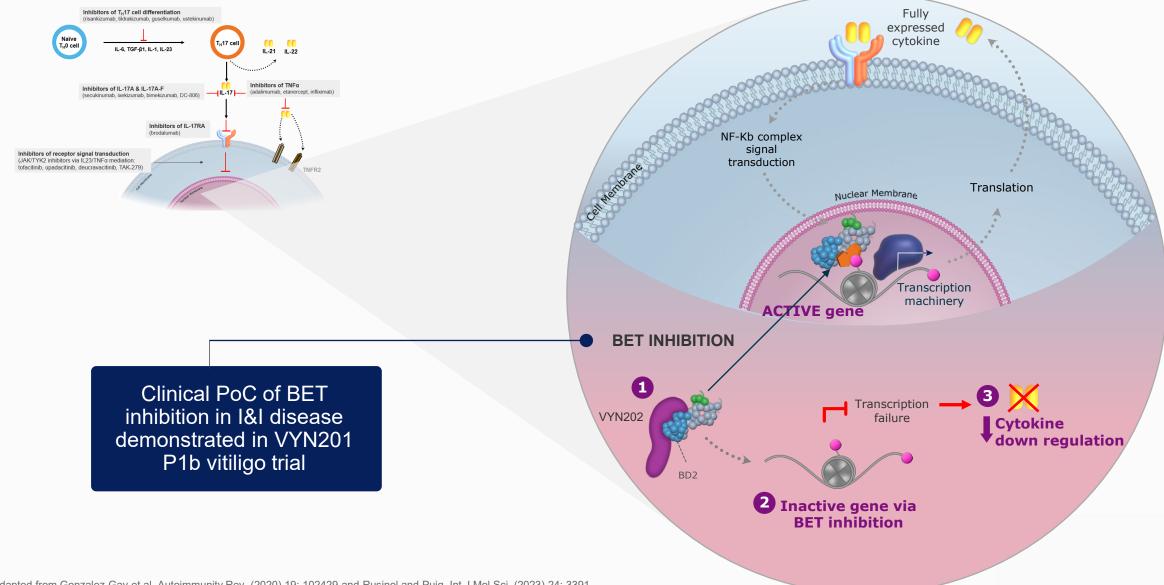
**Higher number denotes higher selectivity. Data based on nanoBRET assay unless otherwise indicated.

1. Based on readily available public information such as clintrials.gov, academic publications and corporate websites/presentations. 2. Nuvation corporate presentation (January 2024); 3. Faivre et al 2020; 4. Delmont et al 2020; 5. Wang et al 2017 6. Kraut et al 2018; Data on file

Strategies to Control Dysregulated T_H17 Immune Cell Activity



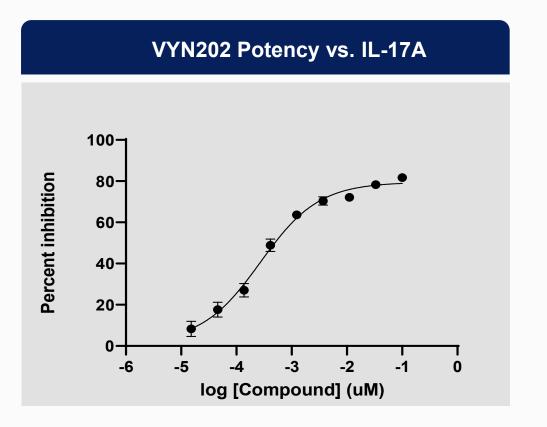
BET Inhibitors Disrupt Inflammatory Gene Transcription in T Cells to Directly Address the Complex Signaling of Immuno- & Fibro-inflammatory Diseases



²⁶ Adapted from Gonzalez-Gay et al, Autoimmunity Rev, (2020) 19: 102429 and Rusinol and Puig, Int J Mol Sci, (2023) 24: 3391

Demonstrated Potency Against Th17 Cytokines

VYN202 Potency vs. IL-17A compares favorably to Secukinumab and DC-806



Therapeutic Agent	IC50 _{IL17A} (nM)
VYN202 (VYNE)	0.27
Secukinumab (Cosentyx - NVS):	0.37
DC-806 (DICE/LLY)	5.7



Cytokines were analysed by ELISA with media supernatant from cultured human PBMCs activated with anti-CD2, CD3 & CD28 antibodies in the presence or absence of compounds for 72h.

²⁷ Source: Data on file; Summary basis of approval for Cosentyx, pharmacology review, CDER, FDA, August 2014; Dice Therapeutics Corporate Presentation March 2023

Minimal Inhibition on Key Innate Immune Chemokine Demonstrates Selectivity of Cytokine Expression (IL-17A and IL-22 vs. CXCL10)

Cytokine	VYN202 IC ₅₀ (nM)	Selectivity vs. CXCL10
IL-17A	0.27	>13,000
IL-22	0.21	>17,000
CXCL10	3637	-

- VYN202 significantly more potent against Th17 Cytokines vs. CXCL10
- CXCL10 interacts with CXCR3 to attract Th1 cells, eosinophils, monocytes, and NK cells to sites of inflammation and is known to be an important part of host defense mechanism



Analysed by ELISA with media supernatant from human PBMCs stimulated with IFN- γ for 24h.

Preclinical Efficacy Models

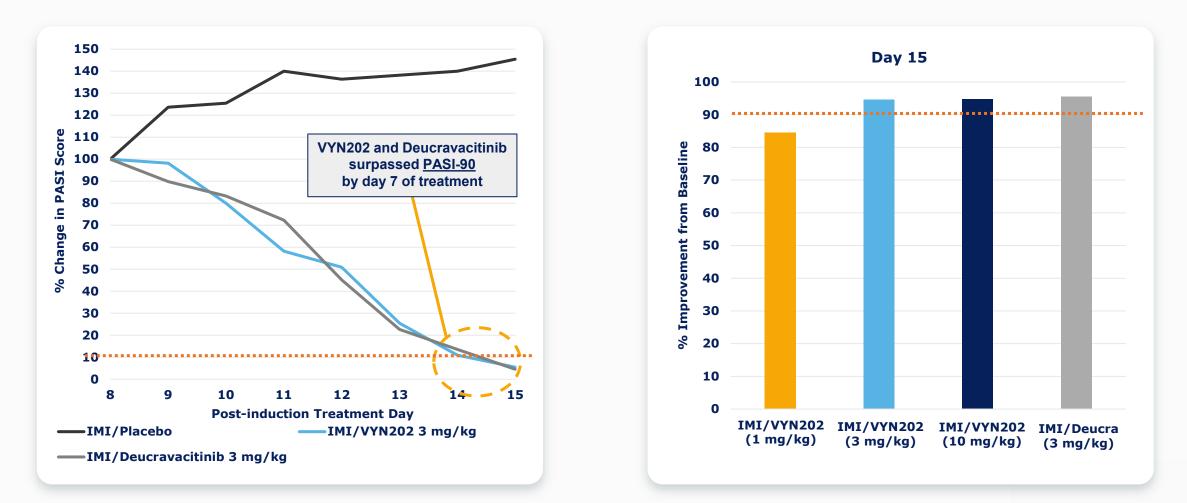


VYN202: Psoriasis Model



VYN202: Comparable Onset of Action and Efficacy to Deucravacitinib¹ at Equivalent Dosing in Preclinical *in vivo* Model of Psoriasis

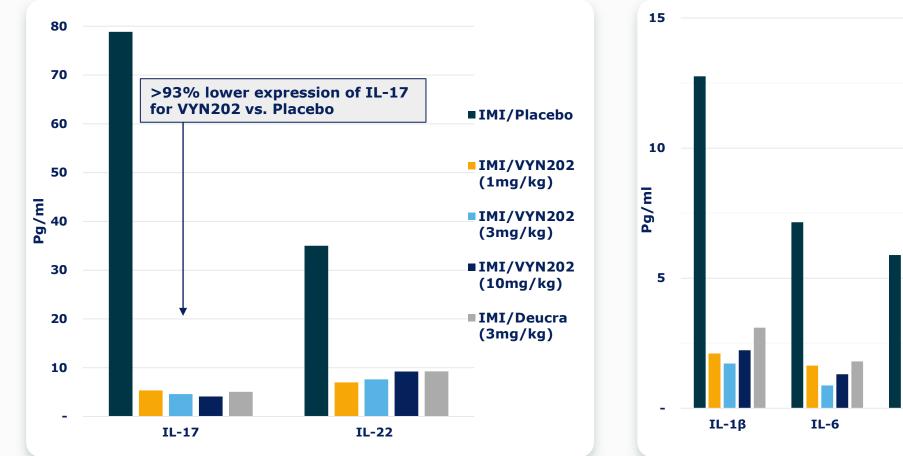
Dorsal depilated BALB-C mice were dosed for 14 days with topical imiquimod cream (Day 1-7: induction phase, Day 8-14: treatment phase). N=8 animals were assigned to each treatment group and received 3 mg/kg of allocated treatment intraperitoneally dosed once-daily on Day 8-14.



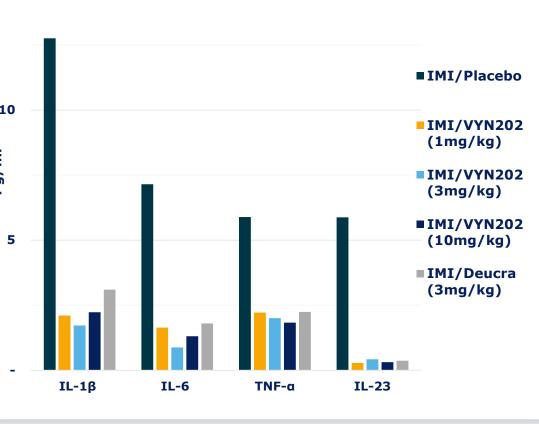
 $1Sotyktu^{\otimes}$ (deucravacitinib) was approved in the U.S. in September 2022. PASI-90 = 90% improvement from baseline in PASI score

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VYN202 Reduced Key Cytokines Associated with Pathogenesis of Psoriasis in Preclinical *in vivo* Model



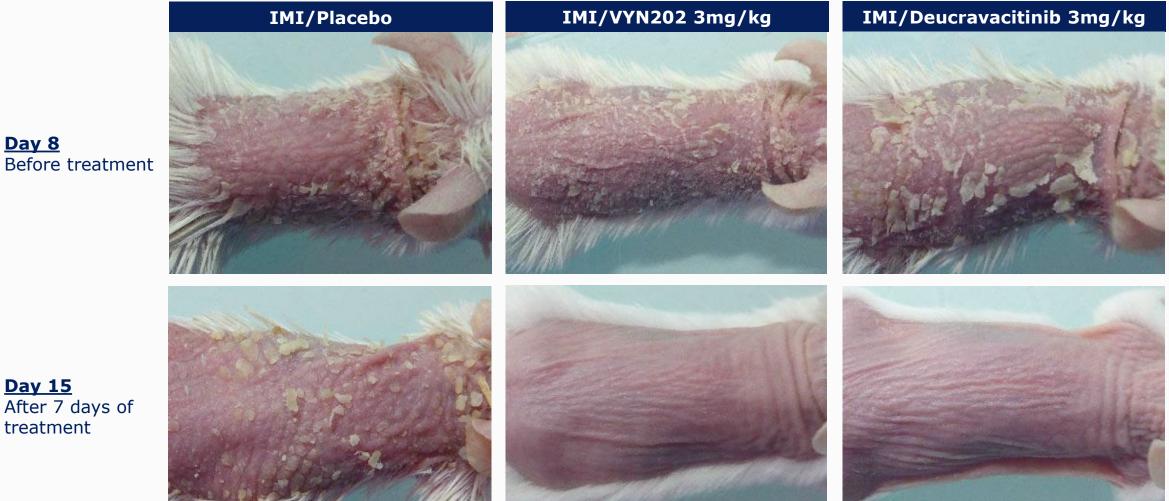
 >93% lower expression of IL-17 at all VYN202 doses compared to placebo



Marked reduction of other disease related Th17 and Th1 cytokines

VYN202: Marked Improvement in Clinical Presentation of Disease

Comparable to deucravacitinib in resolving induced dermal inflammation at an identical dose after 7 days of treatment



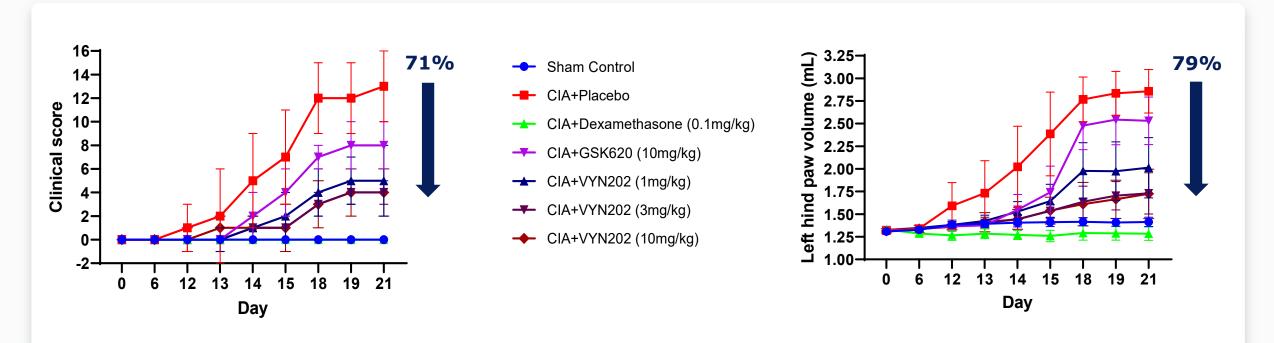
Day 8 Before treatment

VYN202: Rheumatoid Arthritis Model



VYN202: Collagen-Induced Arthritis Model in the Rat – Arthritis Score

- VYN202 demonstrated highly potent anti-inflammatory activity
- VYN202 statistically superior to GSK620 (BD2-selective BET inhibitor) at all dose levels



- VYN202 10mg/kg PO QD treatment resulted in a 71% lower clinical score and 79% lower paw volume compared to CIA+Placebo control at Day 21
- All VYN202 treatment groups were statistically significantly superior to both CIA+Placebo and GSK620 10mg/kg PO QD controls

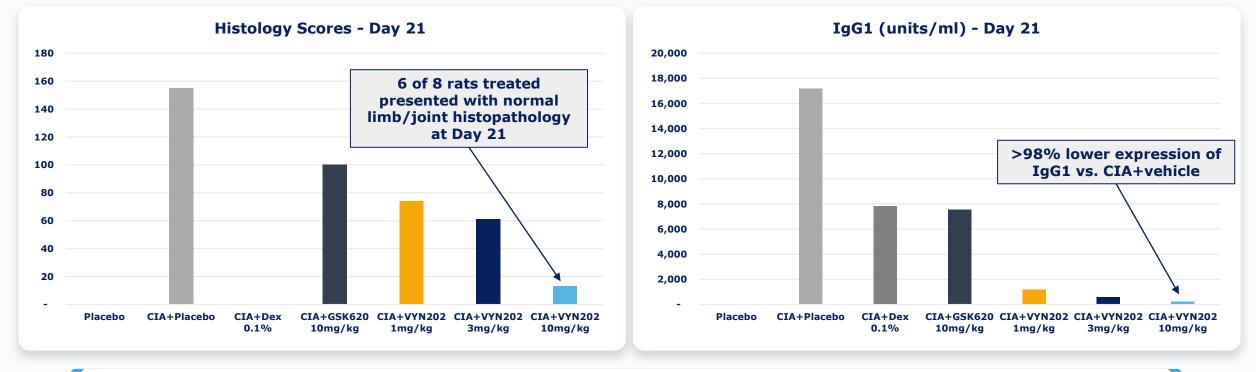
Inflammatory arthritis was induced in Lewis rats using a mixture of collagen and CFA by IV injection at Day 0 and was further challenged with a collagen and IFA IV injection at Day 7 (N=8/treatment group). Treatment groups received oral doses QD for 21 days. Clinical score was evaluated for all four limbs with scoring range from 0 (normal) to 4 (extensive signs and symptoms of arthritis); Maximum clinical score: 16

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VYN202: Collagen-Induced Arthritis Rat Model – Histology Score & Biomarkers

- Treatment with VYN202 at 10mg/kg PO QD results in near normal joint histopathology
- VYN202 demonstrated near complete inhibition of IgG1^{*} expression at all doses



- CIA+VYN202 treatment resulted in a dose-dependent reduction in severity of arthritic histopathology & was statistically superior to CIA+Placebo and CIA+GSK620 at all doses
- VYN202 10mg/kg PO QD reduced the expression of IgG1 by >98% vs. CIA+Placebo control & was statistically equivalent to Placebo control

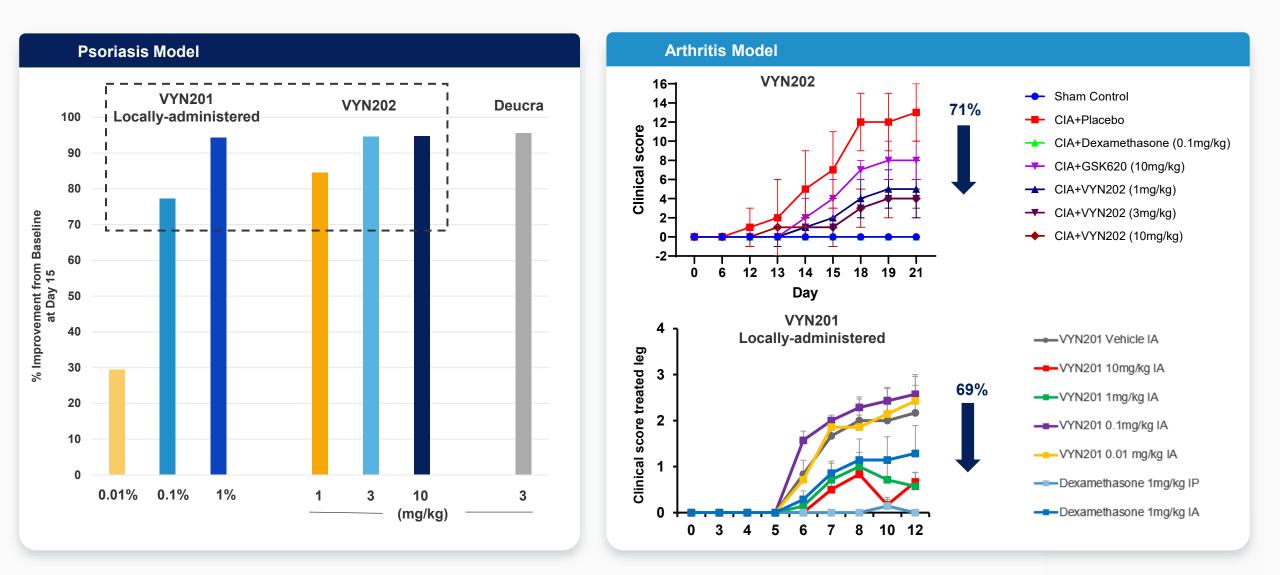
*Immunoglobin G1

Note: Histology - Mixed cell inflammation; tissue granulation; increased bone, periosteum; increased eroded surface bone and cartilaginous erosion/ulceration were assessed on a 4-point severity scale: minimal (1), mild (2), moderate (3) and marked(4). Composite histopathology score was calculated by summing each assessment by severity and incidence. Maximum score: 160 (5 x 4 x N=8/group).



VYN202 Results Show Strong Correlation with VYN201 Results

Reinforcing BET potential and role of BD2 inhibition in treatment of autoimmune diseases



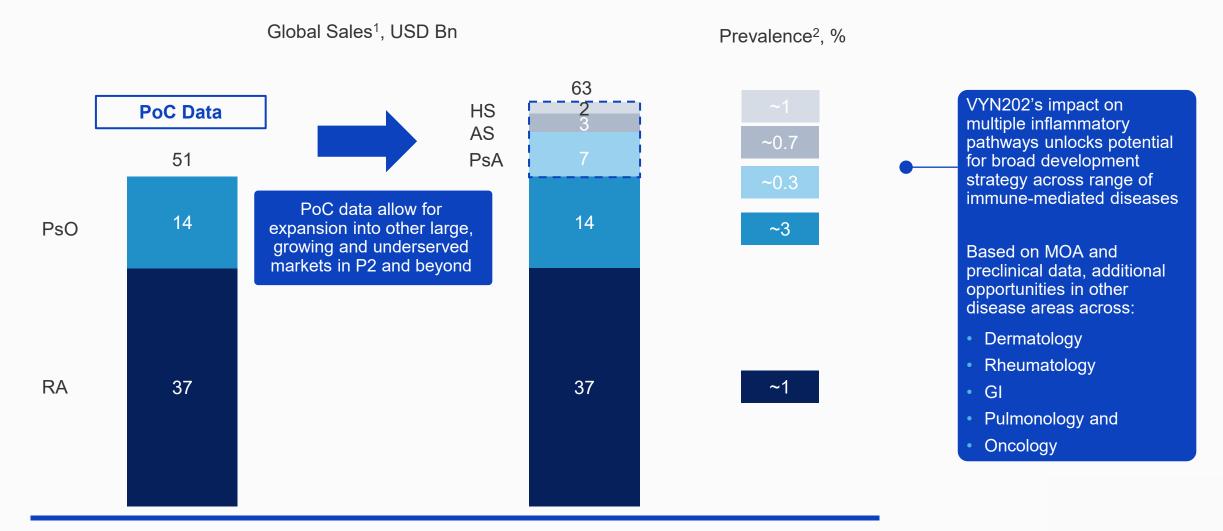
VYN202 Clinical Development Plan

- 1. Moderate-to-Severe Psoriasis
- 2. Moderate-to-Severe Active Rheumatoid Arthritis



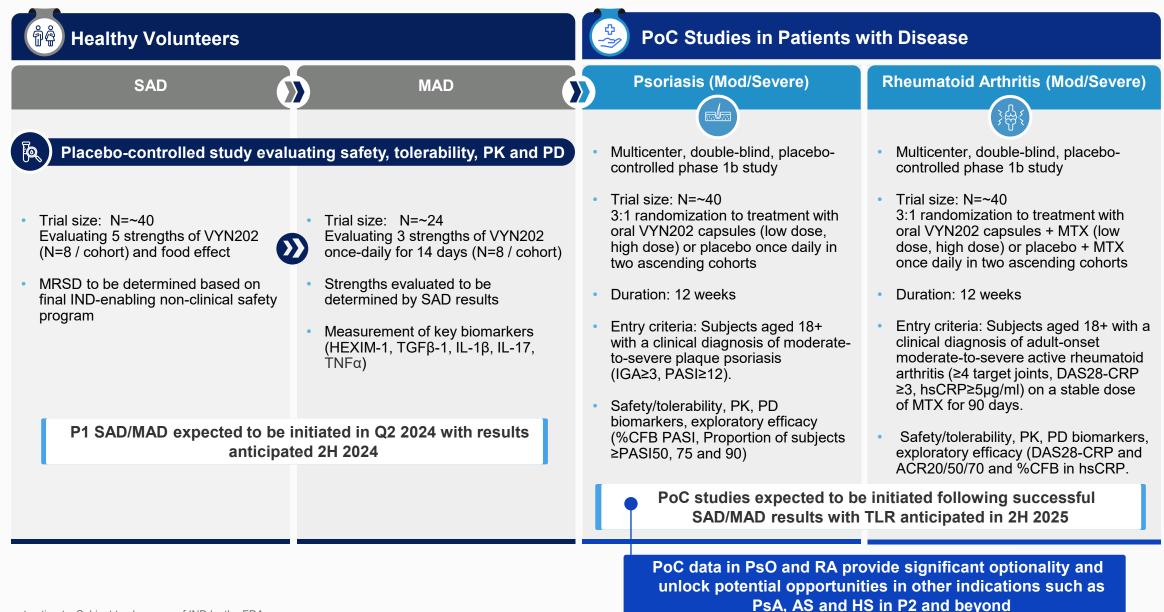
Clinical Development Strategy

Initial PoC studies in psoriasis and rheumatoid arthritis serve as potential gateway to other large, strategically attractive markets



³⁹ Source: 1. Global Data; ABBV 2020 Long-term Strategy Corporate Presentation; Data on file 2. Alotaibi HM Clin Cosmet Investig Dermatol. 2023; MacGearailt C., ⁵¹ Fitzgerald, G. EMJ Rheumatol. 2021; Ogdie A, Weiss P. Rheum Dis Clin North Am. 2015; Armstrong, et al. JAMA Dermatol. 2021; RA Xu Y, Wu Q. J Clin Med. 2021

VYN202 Planned Study Designs



VYN202 Program Summary

- Novel, highly differentiated MOA acting at the point of gene transcription in T Cells to directly address the complex signaling of immuno- & fibro-inflammatory diseases
 - BET Inhibition's impact on multiple inflammatory pathways unlocks potential across broad range of immune-mediated diseases



 Historical pan-BD BET safety concerns addressed via potential class-leading selectivity and potency vs. BD2 binding domain



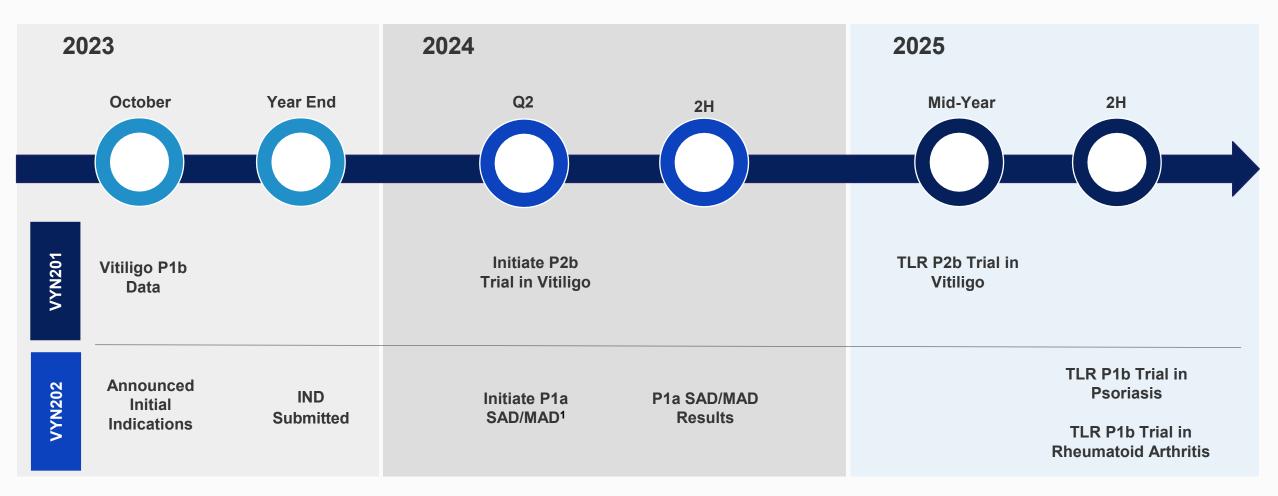
Strong preclinical data across multiple diverse models of autoimmune disease demonstrating significant down
regulation of key pro-inflammatory & disease-related biomarkers with corresponding improvements in disease
severity



 VYN202 preclinical efficacy results show strong correlation with VYN201 results reinforcing drug design thesis and BET inhibition potential in psoriasis, rheumatoid arthritis, and other TH17 driven diseases



Multiple Paths to Potential Value Creation Across BET Inhibitor Programs



Cash runway through the end of 2025



NASDAQ: VYNE





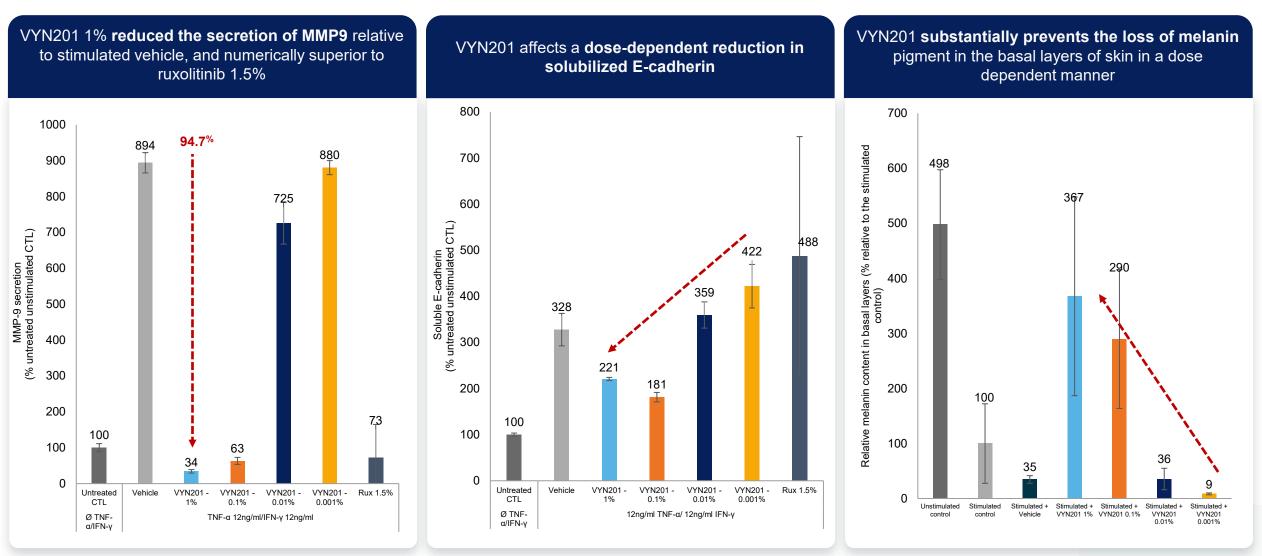


VYN201: Preclinical Data



VYN201: Human Tissue Model of Vitiligo

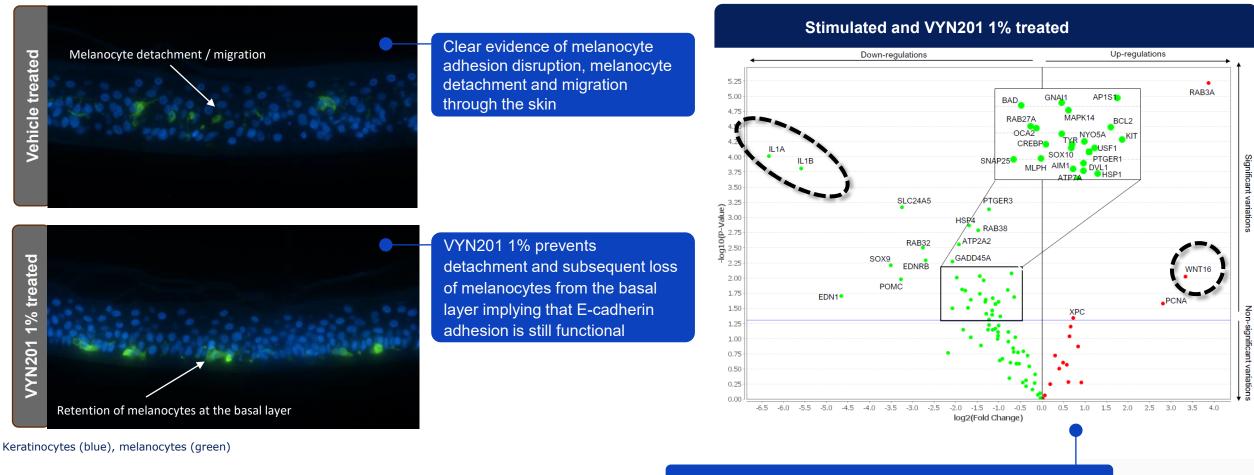
Demonstrated reduction in melanocyte loss and lowering of key inflammatory biomarkers



Reconstituted human epithelial (RHE) skin cultures were treated with a TNF-α and IFN-γ cytokine cocktail to induce a vitiligo phenotype melanocytorrhagy (loss of melanocyte), upregulation of MMP9 and soluble E-cadherin).

VYN201: Human Tissue Model of Vitiligo

VYN201 prevents melanocyte detachment, down regulates the expression of key cytokines and upregulates WNT pathway



Significant downregulation of cytokines IL6, IL1A and IL1B and TNFa and upregulation of the WNT pathway (Wnt16)

VYN201: Phase 1 Proof-of-Concept



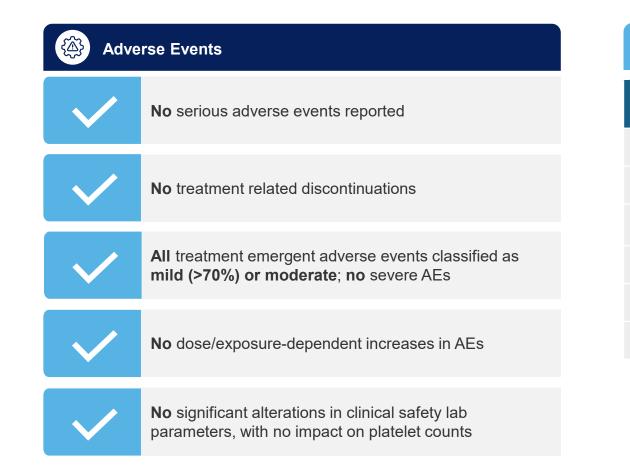
Baseline Demographic and Clinical Characteristics

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⁴ 4	0.5% Cohort (N=10)		1% Cohort (N=10)		2% Cohort (N=9)		Total (N=29)	
Age - year mean	49.2		53.2		57.0		52.9	
Age group - no. / %	0	0%	0	0%	0	0%	0	0%
12-17	0	0%	0	0%	0	0%	0	0%
18-64	9	90%	8	80%	8	89%	25	86%
>=65	1	10%	2	20%	1	11%	4	14%
Female sex - no. / %	6	60%	7	70%	7	78%	20	69%
Race or ethnic group								
Hispanic or Latino	0	0%	2	20%	7	78%	9	31%
Not Hispanic or Latino	10	100%	8	80%	2	22%	20	69%
Fitzpatrick Skin type - no. / %								
I St	0	0%	0	0%	0	0%	0	0%
II	5	50%	4	40%	1	11%	10	34%
III	1	10%	3	30%	3	33%	7	24%
IV	3	30%	2	20%	4	44%	9	31%
V	0	0%	0	0%	1	11%	1	3%
VI	1	10%	1	10%	0	0%	2	7%
F-VASI mean / (min-max)	1.34	(0.54-3.21)	1.14	(0.51-3.36)	0.83	(0.51-1.92)	1.11	(0.51-3.36)
Disease stability - no. / %		. /		. ,		, ,		. ,
Active / Progressive	10	100%	10	100%	9	100%	29	100%
Stable	0	0%	0	0%	0	0%	0	0%



Demonstrated Favorable Safety & Tolerability Profile



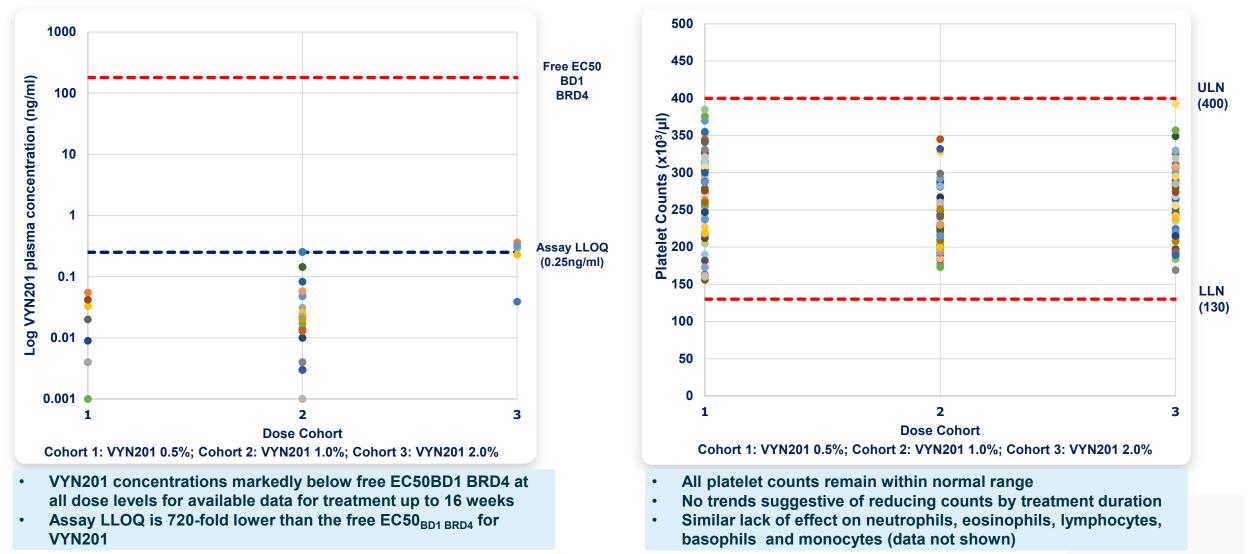
Local Skin Tolerability

Assessment	Mean Score Range 0 (None) to 3 (Severe)
Burning/Stinging	0.26
Scaling	0.15
Dryness	0.22
Pruritus	0.14
Erythema	0.29
Hyperpigmentation	0.10



VYN201 Phase 1b: Low Systemic Exposure in Vitiligo Subjects Correlates with No Impact on Platelet Counts

Available data for treatment up to 16 weeks supports "soft" drug approach for topical pan-BD BET inhibitor



⁵¹ Data available as of 11/8/23 LLOQ = Lower Limit of Quantification