

**R&D Day** November 9, 2023



### **Forward Looking Statements and Important Notes**

This presentation by VYNE Therapeutics Inc. ("VYNE") includes forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 including, but not limited to, statements regarding VYNE's plans, regulatory filings and development timelines for VYN201 and VYN202, VYNE's InhiBET<sup>™</sup> platform, VYNE's cash runway through the end of 2025 and other statements regarding the future expectations, plans and prospects of VYNE. All statements in this presentation which are not historical facts are forward-looking statements. Any forward-looking statements are based on VYNE's current knowledge and its present beliefs and expectations regarding possible future events and are subject to risk, uncertainties and assumptions that could cause actual results to differ materially and adversely from those set forth or implied by such forward-looking statements. These risks and uncertainties include, but are not limited to: VYNE's ability to successfully develop its product candidates; the timing of commencement of future preclinical studies and clinical trials; VYNE's ability to create intellectual property and the scope of protection it is able to establish and maintain for intellectual property rights covering its product candidates, including the projected terms of plant protection; risks that any of VYNE's patent applications; estimates of VYNE's expenses, capital requirements, its needs for additional financing and its ability to obtain additional capital on acceptable terms or at all; VYNE's expectations regarding licensing, business transactions and strategic operations; VYNE's number of other risks and uncertainties, and other important factors in VYNE's actual results on form 10-K for the year ended December 31, 2022 and Quarterly Report on Form 10-Q for the period ended June 30, 2023, as well as discussions of potential risks, uncertainties, and other important factors in VYNE's scaper enderlooking statements to reflect subsequent events or circumstances, except as otherwise required reduc

Certain information contained in this presentation relates to or is based on studies, publications, surveys and other data obtained from third-party sources and VYNE's own internal estimates and research. While VYNE believes these third-party sources to be reliable as of the date of this presentation, VYNE has not independently verified, and makes no representation as to the adequacy, fairness, accuracy or completeness of, any information obtained from third-party sources. In addition, all of the market data included in this presentation involves a number of assumptions and limitations, and there can be no guarantee as to the accuracy or reliability of such assumptions. Finally, while VYNE believes its own internal research is reliable, such research has not been verified by any independent source. You are cautioned not to give undue weight to any such information, projections and estimates.

The trademarks included herein are the property of the owners thereof and are used for reference purposes only. This presentation concerns product candidates that are under clinical investigation. None of such product candidates have been approved for marketing by the FDA or the EMA, and such product candidates are currently limited to investigational use, and no representation is made as to their safety or effectiveness for the purposes for which they are being investigated.

Disclosure: Dr. Amit Pandya served as a consultant to VYNE in connection with the Phase 1b trial and is receiving compensation for his presentation at today's event.





Торіс	Speaker	Timing
Intro	David Domzalski, President and Chief Executive Officer	5 mins
Vitiligo Background, Treatment Landscape & Unmet Need	Dr. Amit Pandya, former President of the Global Vitiligo Foundation and Staff Dermatologist, Department of Dermatology, Palo Alto Foundation Medical Group	15 mins
VYN201 Phase 1b Results & Phase 2 Plans	Dr. Iain Stuart, Chief Scientific Officer	25 mins
VYN202 Preclinical Data & Clinical Plans	Dr. Iain Stuart, Chief Scientific Officer	25 mins
Financial Update	Tyler Zeronda, Chief Financial Officer	5 mins
Q&A session		15 mins

#### **Investment Highlights (NASDAQ: VYNE)**

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

Innovative Target & Approach	<ul> <li>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</li> <li>Potential across broad range of immune-mediated diseases representing multi-billion-dollar opportunities</li> </ul>
Clinical Stage Pipeline	<ul> <li>VYN201: Phase 1b PoC data in vitiligo suggest VYN201 has the potential to be category leader</li> <li>VYN202: Supported by robust preclinical data across multiple diverse models of autoimmune disease, Phase 1a SAD/MAD expected to be initiated in Q1 2024 following IND clearance</li> </ul>
Potential for Multiple Clinical Catalysts	<ul> <li>VYN201: Phase 2b trial expected to be initiated in 1H 2024 targeting top-line results in mid-2025</li> <li>VYN202: Phase 1a SAD/MAD read-out anticipated mid-2024</li> <li>(2) Phase 1b PoC studies in plaque psoriasis and rheumatoid arthritis planned with targeted top-line results expected in mid-2025</li> </ul>
Experienced Team & Strong Balance Sheet	<ul> <li>Seasoned leadership team with demonstrated track record of progressing programs through regulatory approval</li> <li>Pro forma cash: \$103.7M<sup>1</sup>; No debt Recent financing with syndicate of leading healthcare investors provides cash runway through the end of 2025</li> </ul>

1. As of September 30, 2023, reflecting gross proceeds from \$88 million PIPE financing in October 2023; Pro forma shares outstanding: ~14.0M; Pro forma fully-diluted shares outstanding: ~42.8M excluding treasury stock method; unaudited

#### **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

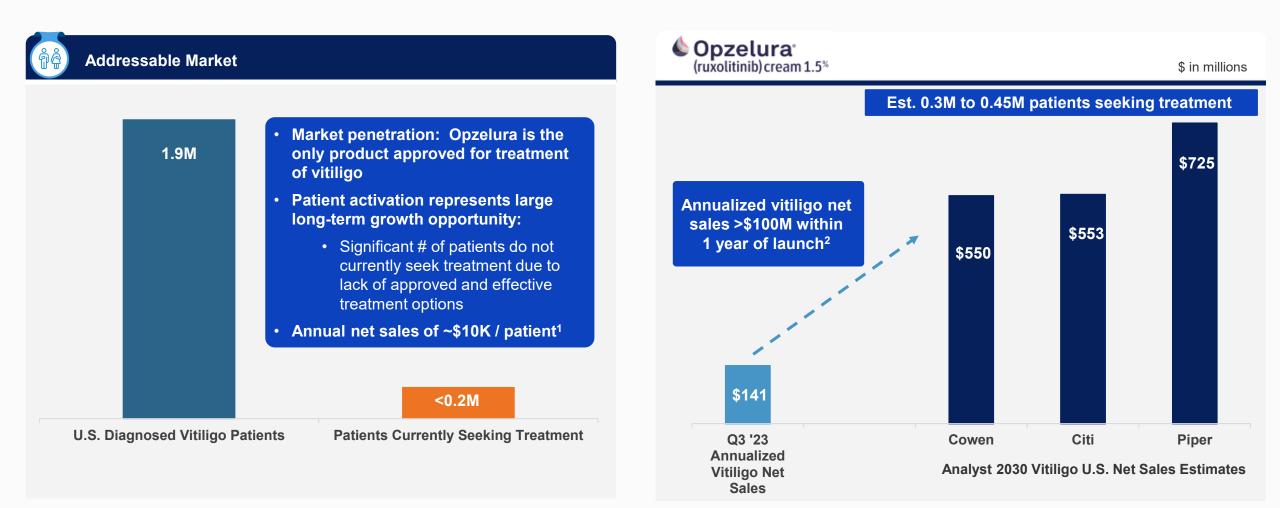
- Class-leading BD2 vs. BD1 selectivity for systemic administration
- BD2 activity more relevant to inflammatory gene expression
- Minimize BD1 inhibition to protect against steady-state gene disruption

Gilan et al, Science. 2020 April 24; 368(6489): 387–394 5 Dawson et al, Science 2020; Belkina, Nikolajczyk & Denis, J. Immunol. 2013

## VYN201: Vitiligo



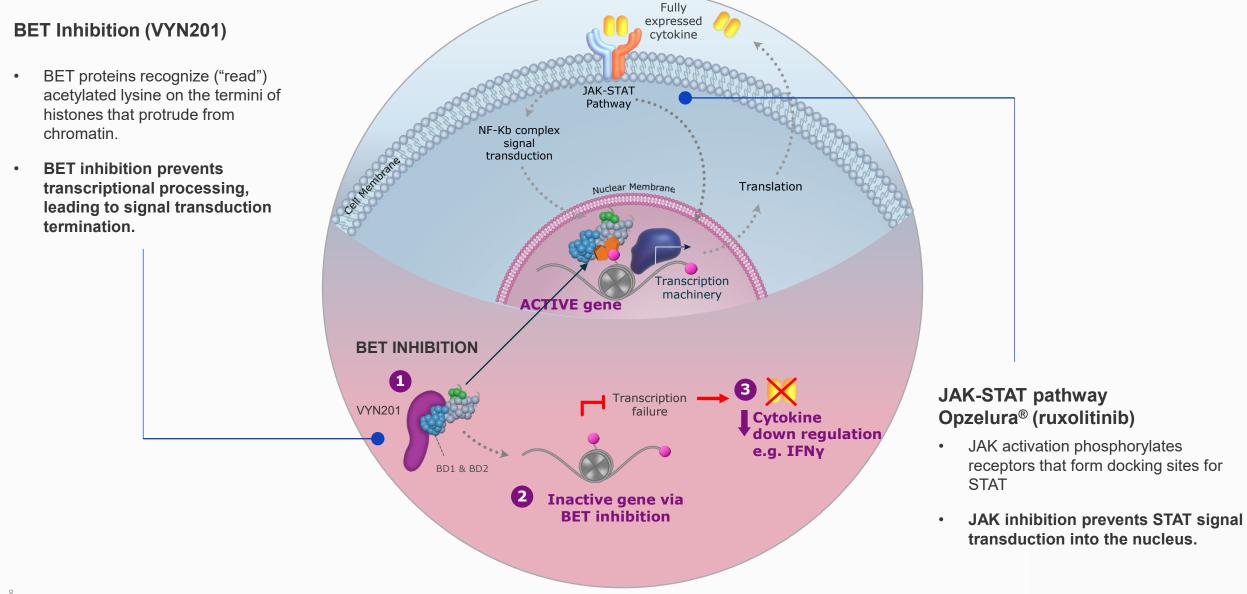
#### **Vitiligo Represents a Large and Growing Market Opportunity**



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 pricing: \$2k per 60g tube\*10 tubes per patient per year less GTN discount of 50% per Incyte mgmt.; 2. Estimated. Q3'23 net sales \$88mm: Vitiligo represents ~40% of TRx per Incyte mgmt.

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



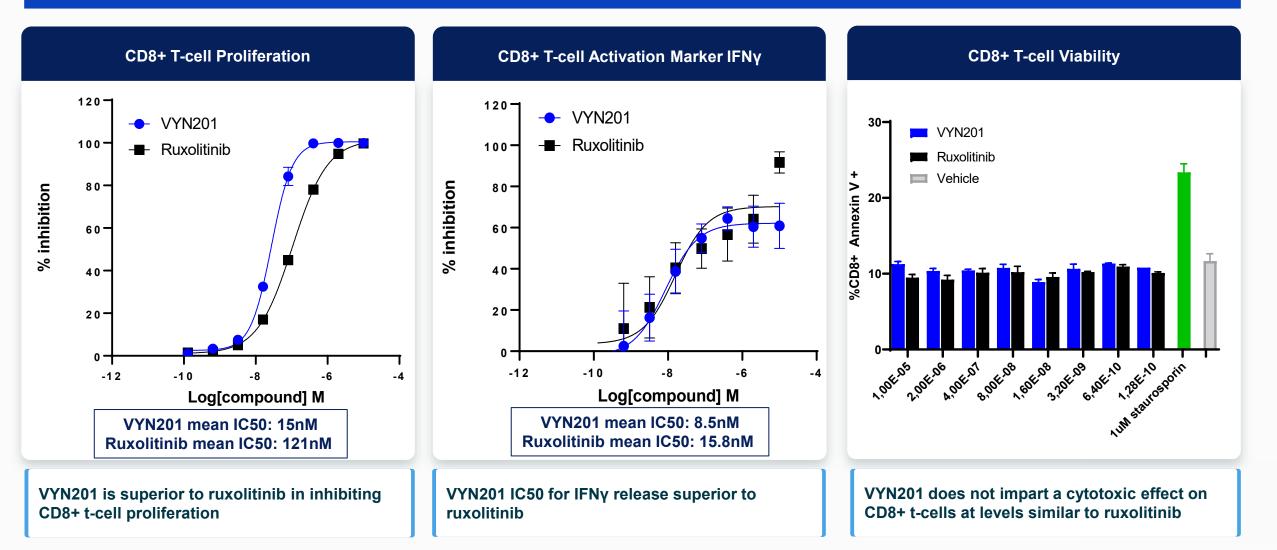
Adapted from Gonzalez-Gay et al, Autoimmunity Rev, (2020) 19: 102429 and Rusinol and Puig, Int J Mol Sci, (2023) 24: 3391

## **VYN201: Preclinical Data**



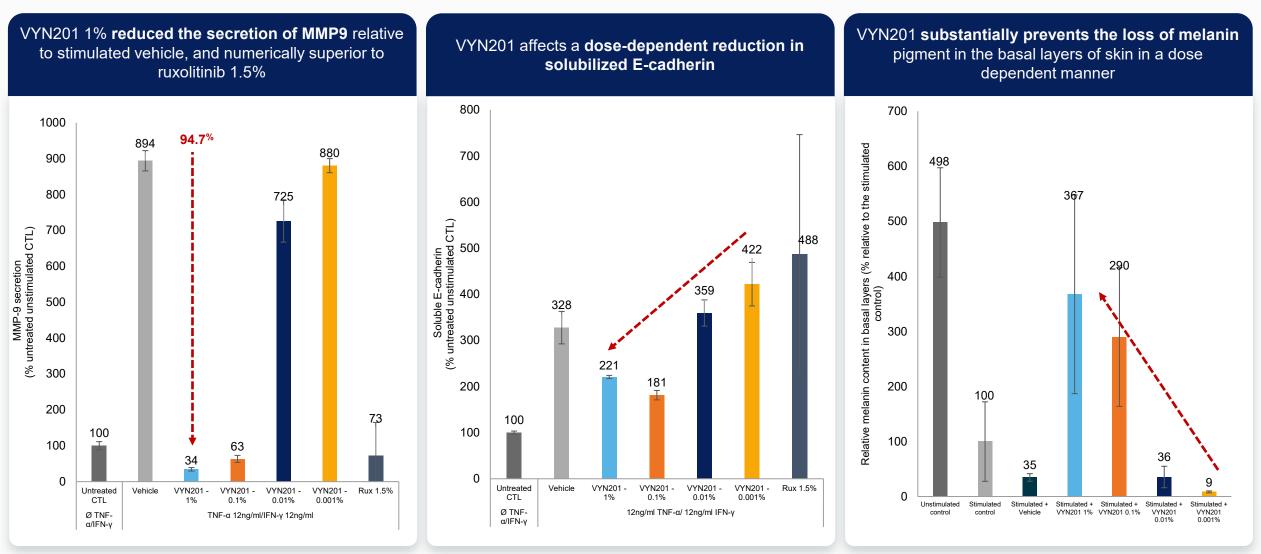
# Pathogenesis of Vitiligo is Primarily Linked to CD8+ T-Cell Proliferation and Hyperactivity

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



### VYN201: Human Tissue Model of Vitiligo

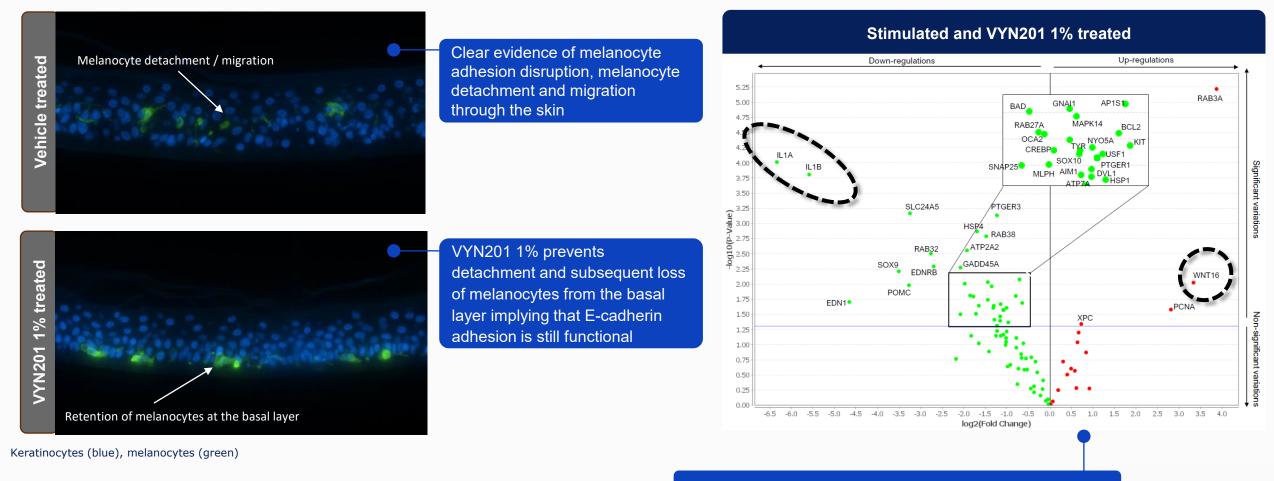
Demonstrated reduction in melanocyte loss and lowering of key inflammatory biomarkers



Reconstituted human epithelial (RHE) skin cultures were treated with a TNF-a and IFN- $\gamma$  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



### 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 Therapy<sup>5</sup>

	Disease Activity	Status
VYN201 P1b (VYNE)	Active Only	<ul><li> PoC achieved</li><li> Phase 1b completed</li></ul>
Litfulo <sup>®</sup> (ritlecitinib) P2b <sup>1</sup> (Pfizer)	Active Only	<ul> <li>Pfizer currently enrolling P3 study evaluating 50 mg QD dose in active &amp; stable disease</li> </ul>
Povorcitinib P2b <sup>2</sup> (Incyte)	Active & Stable	<ul> <li>Incyte preparing for Phase 3 program</li> </ul>
<b>Opzelura<sup>®</sup> (ruxolitinib) P2b<sup>3</sup></b> (Incyte)	Active & Stable	<ul> <li>1.5% BID dose approved in the U.S. (July 2022) and EU (April 2023)</li> </ul>
<b>Rinvoq<sup>®</sup> (upadacitinib) P2b</b> <sup>4</sup> ( <i>AbbVie</i> )	Active & Stable	Phase 2b completed

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

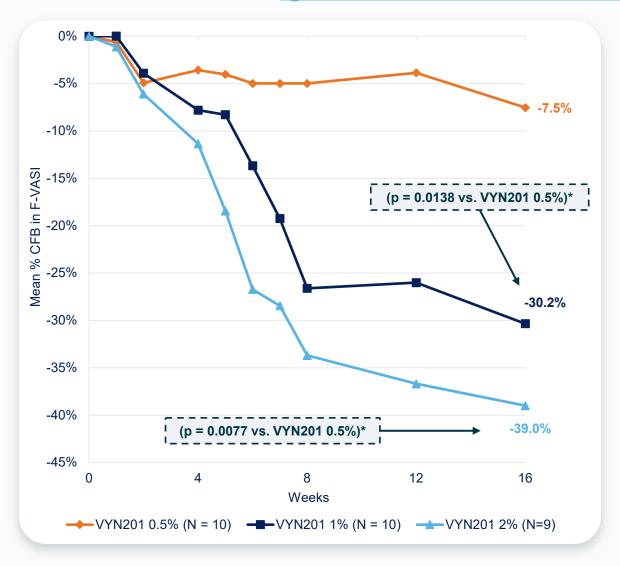
### **Baseline Demographic and Clinical Characteristics**

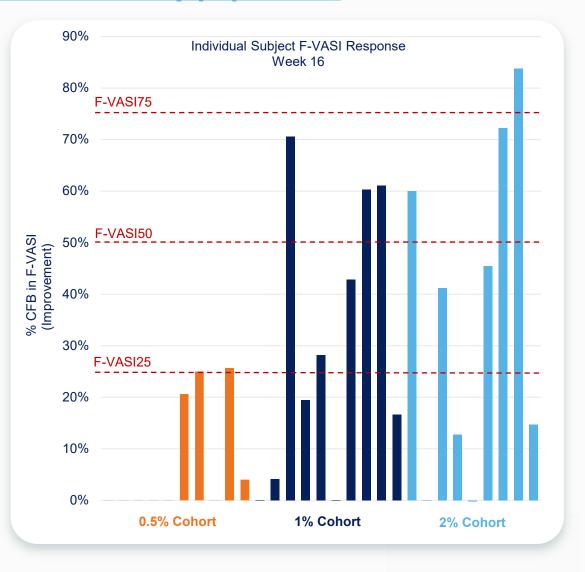
<sup>†</sup> ÷		o Cohort N=10)		Cohort N=10)		Cohort N=9)		otal  =29)
Age - year mean	4	19.2	Į	53.2	Į	56.8	5	52.9
Age group - no. / %	0	0%	0	0%	0	0%	0	0%
12-17	0	0%	0	0%	0	0%	0	0%
18-64	9	90%	8	80%	8	89%	25	86%
>=65	1	10%	2	20%	1	11%	4	14%
Female sex - no. / %	6	60%	7	70%	7	78%	20	69%
Race or ethnic 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. / %								
l ,	0	0%	0	0%	0	0%	0	0%
11	5	50%	4	40%	1	11%	10	34%
111	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%



#### **Promising Onset of Action and F-VASI Response**

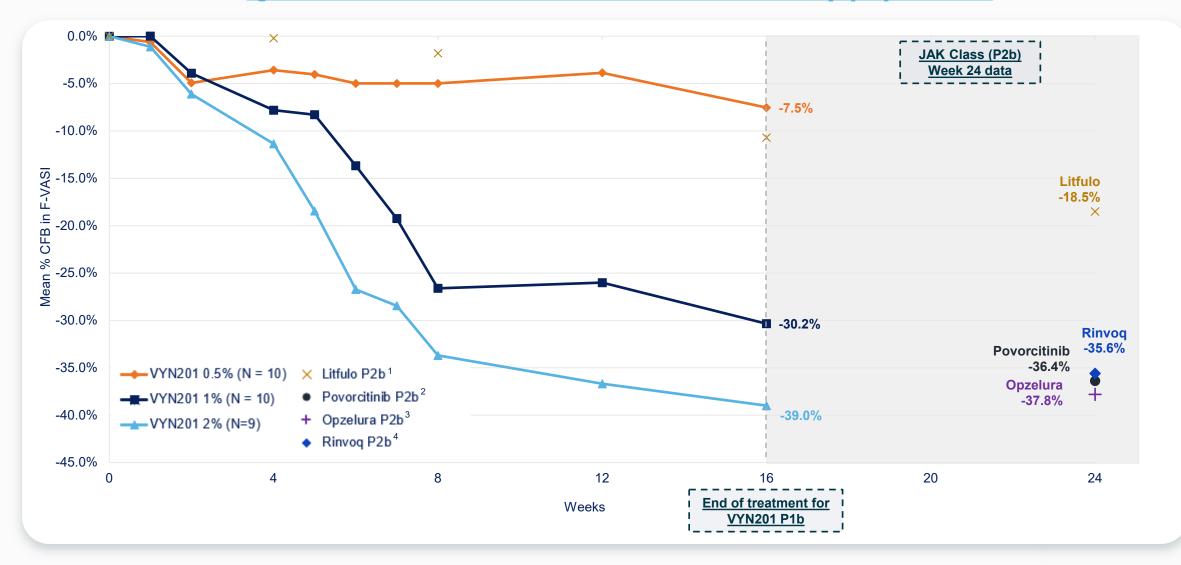
VYN201 Phase 1b: **QD Treatment in 100% active disease study population** 





#### **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); 3. NCT03099304 (LS mean %CFB for 1.5% BID); 4. NCT04927975 (LS mean %CFB for 11 mg QD); \*% CFB T-test based on latest observed case (LOCF)

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#### **Preclinical & Clinical Data Highlight Potential for Differentiated Product Profile**

Characteristic	VYN201     Opzelura       Characteristic     (Ruxolitinib)		Litfulo (Bitlesitinih)	Povorcitinib		
Characteristic	1%	2%	(Ruxolitinib) Cream 1.5%	(Ritlecitinib) 50mg <sup>1</sup>	45mg <sup>2</sup>	
Novel MOA / JAK Class Alternative	✓		×	×	X	
Targeted Dosing Posology	QD		BID	QD	QD	
Rapid Onset of Action	✓		Moderate	×	Moderate	
	<u>100% active</u>	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> ) <sup>3</sup>	-1.8 ( <u>Week 8</u> ) -18.5 ( <u>Week 24</u> )	<u>disease study</u> -36.4 ( <u>Week 24</u> )	
Efficacy, % F-VASI25, <u>Week 12</u> <sup>5</sup>	40.0	55.6	P3: 27.3 <sup>4</sup>	-	-	
Efficacy, % F-VASI50, <u>Week 12</u> <sup>5</sup>	20.0	33.3	P2b: 21.2 <sup>3</sup> P3: 29.2 <sup>4</sup>	0.0 ( <u>Week 8</u> ) 15.4 ( <u>Week 24</u> )	25.0	
Potential to Upregulate WNT Pathway			×	×	×	
Safety Precaution		-	*Black Box"	*Black Box"	X Expect "Black Box"	
Systemic Exposure	Low (Cmax <1 nM)		Cmax/AUC: 449nM / 3215nM	-	-	

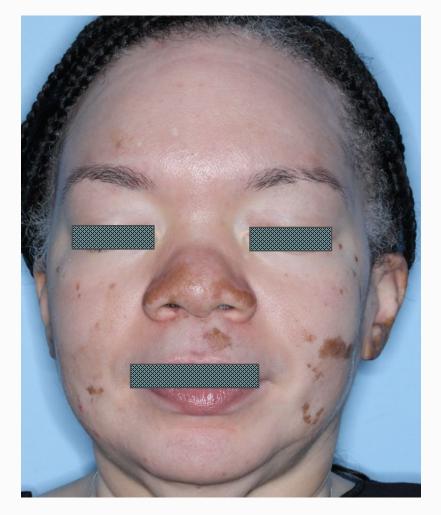
Data is not based on Head-to-Head comparisons

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;

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### **Phase 1b Select Images**

Subject with near-complete depigmentation (High FVASI)



Baseline



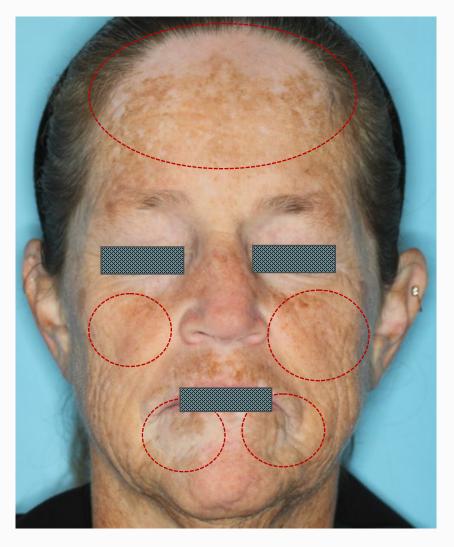
Week 16

(0.5% cohort, Fitzpatrick skin type: 5)

### Phase 1b Select Images Subject with significant repigmentation response



Baseline



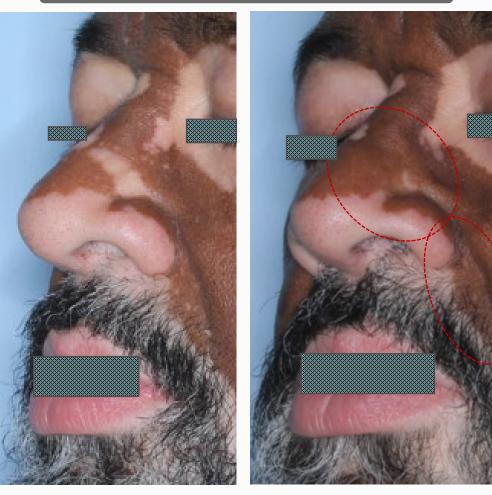
Week 16



(2.0% cohort, Fitzpatrick skin type: 2)

#### **Phase 1b Select Images Subject examples with marked active disease**

Confetti-like depigmentation presentation



Inflamed vitiligo presentation



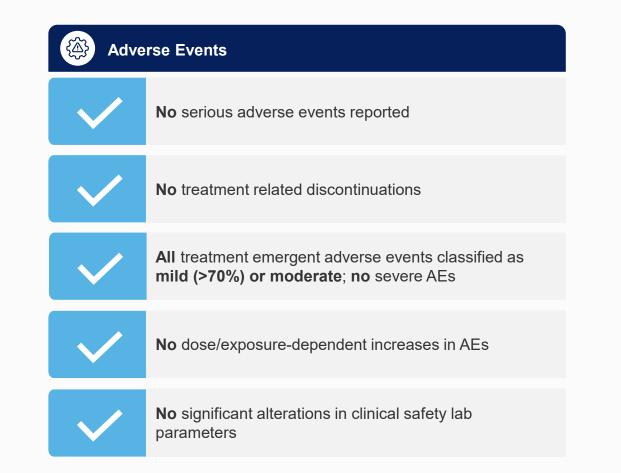
Baseline



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

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

### **Demonstrated Favorable Safety & Tolerability Profile**



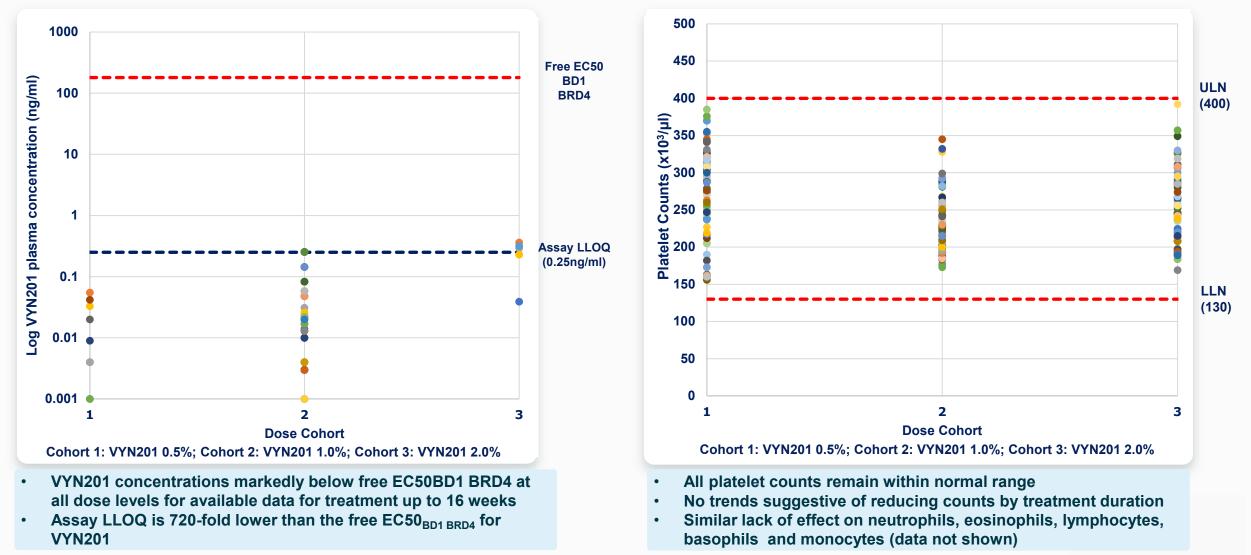
Local Skin Tolerability

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



<sup>&</sup>lt;sup>24</sup> Data available as of 11/8/23 LLOQ = Lower Limit of Quantification

### **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 disease<sup>1</sup>



#### 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=50 / arm, evaluating up to 4 arms of once-daily treatment (vehicle, low, mid, high)



Duration: 24 weeks with extension to 52 weeks

#### Key efficacy endpoints:

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Primary:Proportion of subjects achieving FVASI50 at Week 24 vs. VehicleSecondary:Proportion of subjects achieving TVASI50 at Week 52Proportion 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

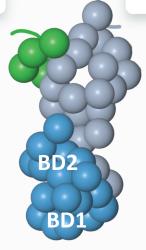
## Maximize local effect & minimize systemic exposure

- 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

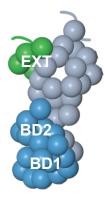
- Class-leading BD2 vs. BD1 selectivity for systemic administration
- BD2 activity more relevant to inflammatory gene expression
- Minimize BD1 inhibition to protect against steady-state gene disruption



Gilan et al, Science. 2020 April 24; 368(6489): 387–394 28 Dawson et al, Science 2020; Belkina, Nikolajczyk & Denis, J. Immunol. 2013

### 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 development<sup>1</sup> 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



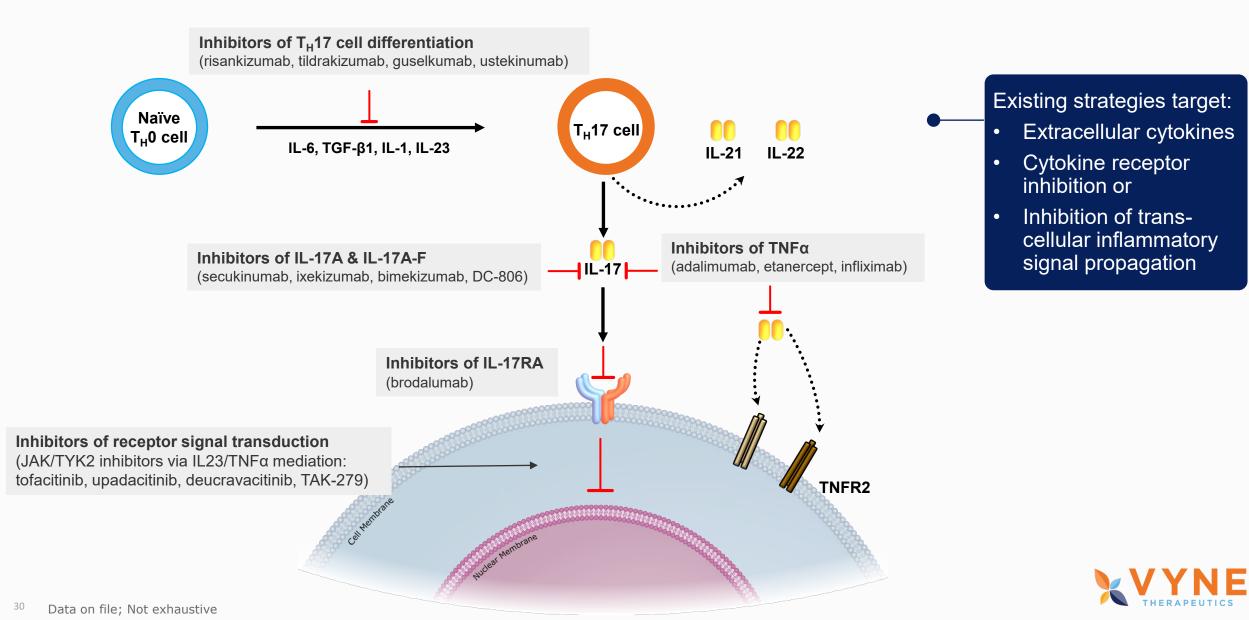
Compound ID	Potency vs. BD2* (nM)	Selectivity** (BD1/BD2)
VYN202 (VYNE)	<	>>>>
NUV-868 (Nuvation) <sup>2</sup>	2	1,460x (FRET)
ABBV-744 (AbbVie) <sup>3</sup>	28	753x (FRET)
GSK620 (GSK) <sup>4</sup>	79	220x
Pelabresib (Constellation) <sup>2</sup>	17	5x (FRET)
ABBV-075 <sup>3</sup>	13	2.6x
MK-8628/OTX-015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

\*Lower number denotes higher potency

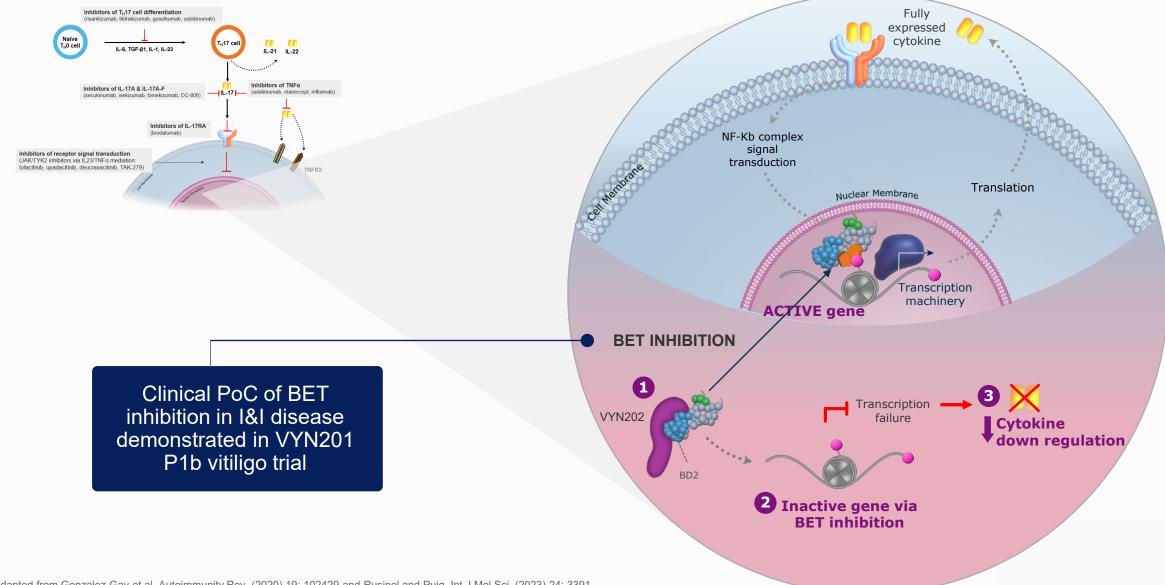
\*\*Higher number denotes higher selectivity. Data based on nanoBRET assay unless otherwise indicated.

1. Based on readily available public information such as clintrials.gov, academic publications and corporate websites/presentations. 2. Nuvation corporate presentation (May 2023); 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<sub>H</sub>17 Immune Cell Activity**



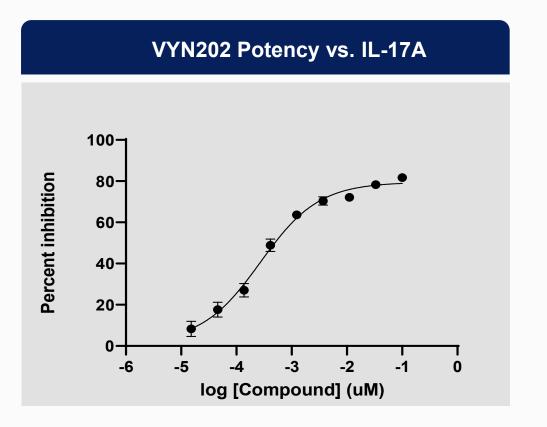
#### **BET Inhibitors Disrupt Inflammatory Gene Transcription in T Cells to Directly Address the Complex Signaling of Immuno- & Fibro-inflammatory Diseases**



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 <sub>IL17A</sub> (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.

<sup>32</sup> 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 <sub>50</sub> (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



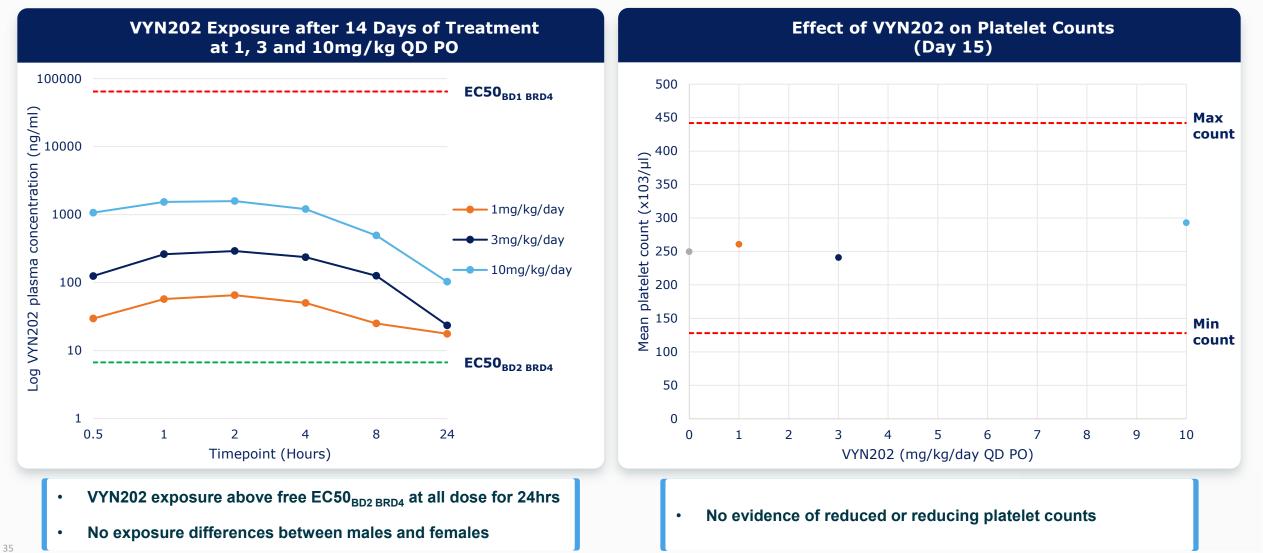
Analysed by ELISA with media supernatant from human PBMCs stimulated with IFN- $\gamma$  for 24h.

## **Preclinical Safety Data**



#### **Dog Toxicokinetics & Effect on Hematopoietic system**

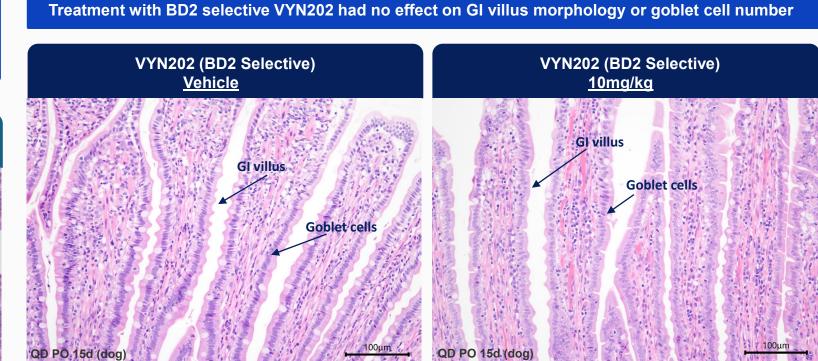
- VYN202 exposure significantly above free EC50<sub>BD2 BRD4</sub> at 1,3 & 10mg/kg QD for 24 hours
- No effect on platelet counts

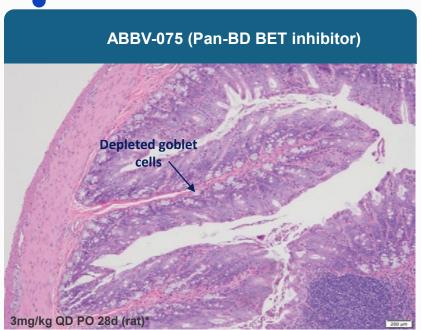


### Effect on Gastrointestinal (GI) System

**Compared to pan-BD BET inhibitors** 

Oral pan-BD BET inhibitors (like ABBV-075) are known to negatively impact GI mucosa via goblet cell toxicity, leading to related gastrointestinal adverse events in the clinic\*





\* Faivre EJ et al, Nature, 578, 306-310 (2020)
 <sup>36</sup> Images for VYN202 representative from histopathology of the duodenum (H&E stain). Comparable results obtained for ileum and jejunum.

# **Preclinical Efficacy Models**

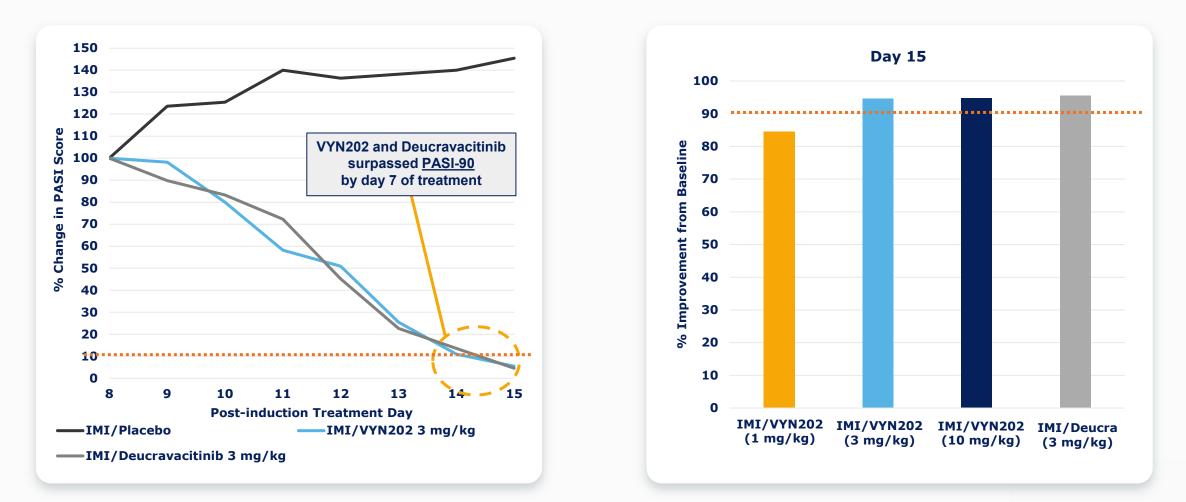


## VYN202: Psoriasis Model

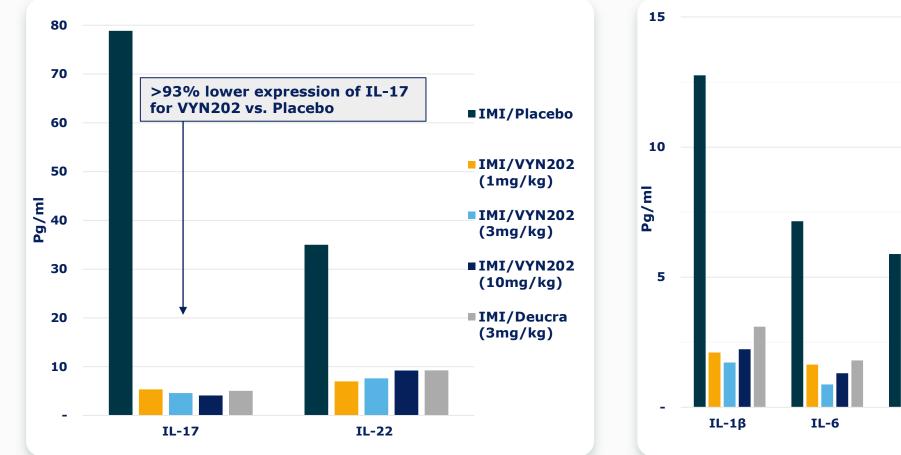


### VYN202: Comparable Onset of Action and Efficacy to Deucravacitinib<sup>1</sup> at Equivalent Dosing in Preclinical *in vivo* Model of Psoriasis

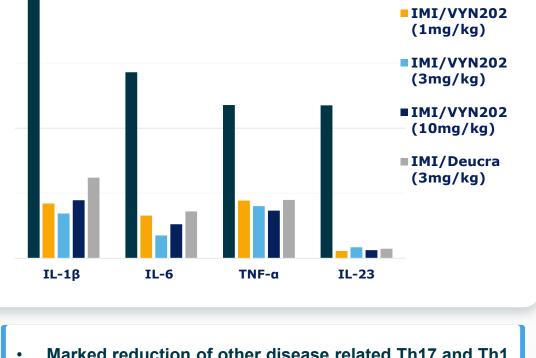
Dorsal depilated BALB-C mice were dosed for 14 days with topical imiquimod cream (Day 1-7: induction phase, Day 8-14: treatment phase). N=8 animals were assigned to each treatment group and received 3 mg/kg of allocated treatment intraperitoneally dosed once-daily on Day 8-14.



# 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

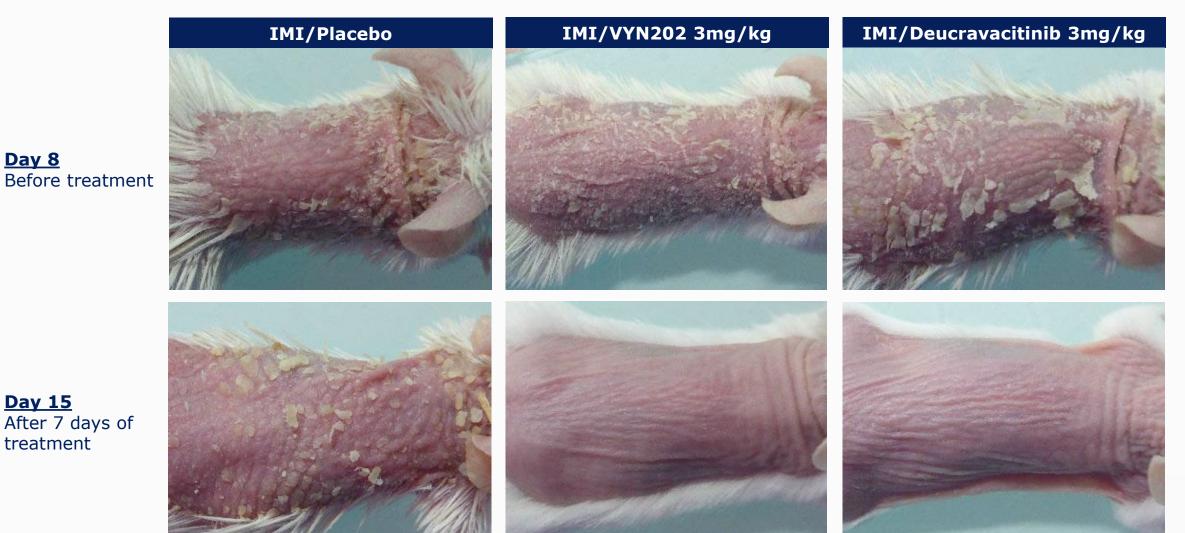


■IMI/Placebo

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



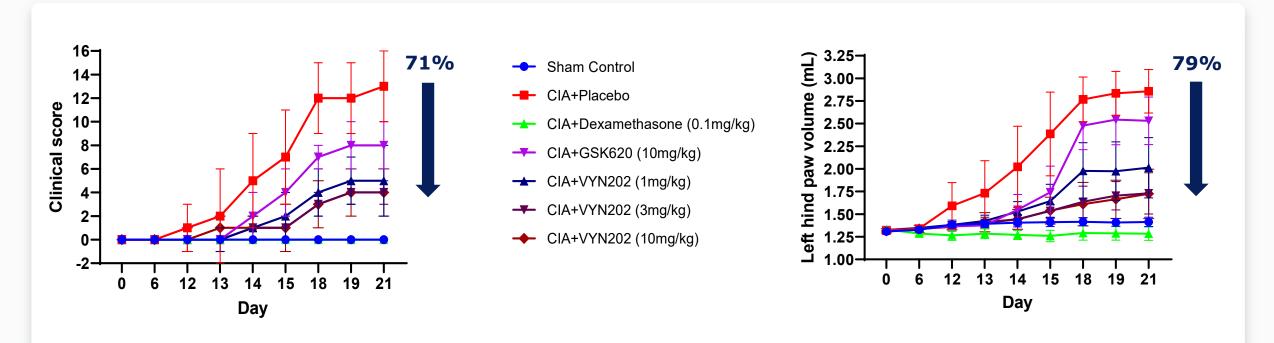
41 IMI = imiquimod;

# 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

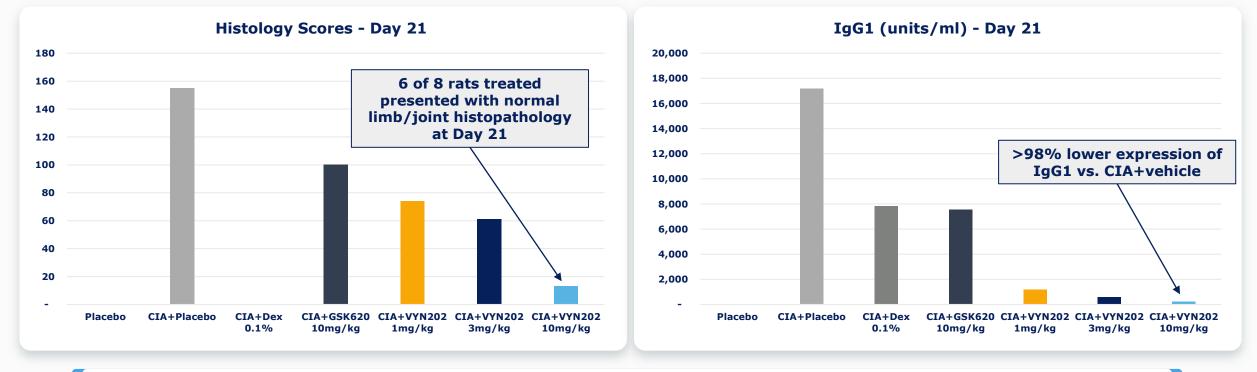
Inflammatory arthritis was induced in Lewis rats using a mixture of collagen and CFA by IV injection at Day 0 and was further challenged with a collagen and IFA IV injection at Day 7 (N=8/treatment group). Treatment groups received oral doses QD for 21 days. Clinical score was evaluated for all four 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<sup>\*</sup> 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

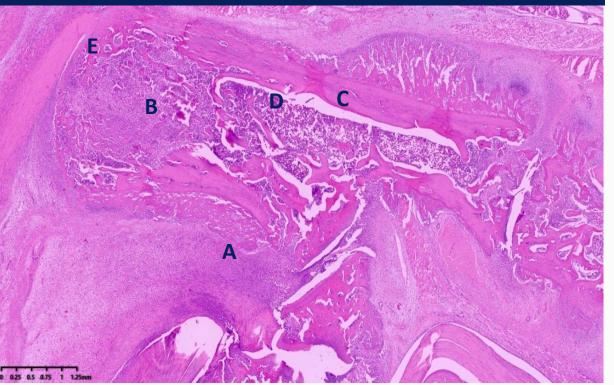
#### \*Immunoglobin G1

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).



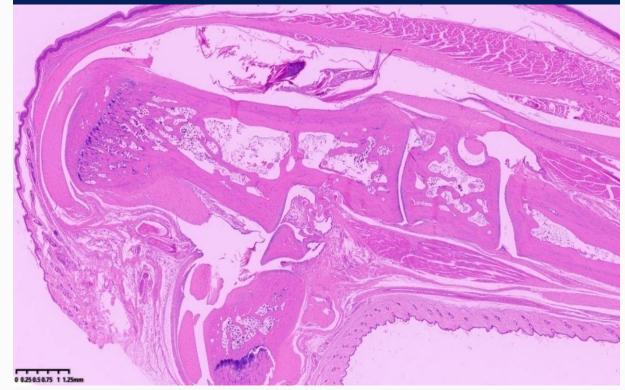
### VYN202: Collagen-Induced Arthritis Rat Model – Pathology Images Treatment with VYN202 at 10mg/kg PO QD results in near normal joint pathology

#### CIA+Placebo



- A. Inflammation; mixed cell, marked
- B. Granulation tissue; marked
- C. Increased bone, periosteum; marked
- D. Increased eroded surface, bone; moderate
- E. Erosion/ulcer; cartilagenous, moderate

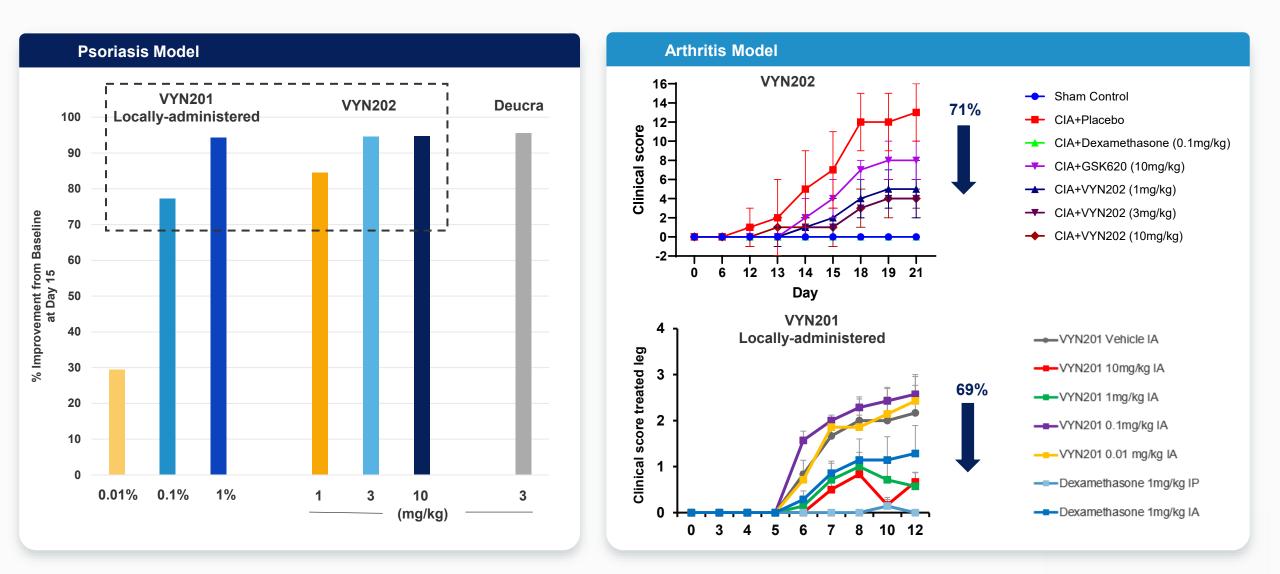
#### CIA+VYN202 10mg/kg



Normal joint presentation

## VYN202 Results Show Strong Correlation with VYN201 Results

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



## 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 and supported by completed and on-going nonclinical toxicity studies



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

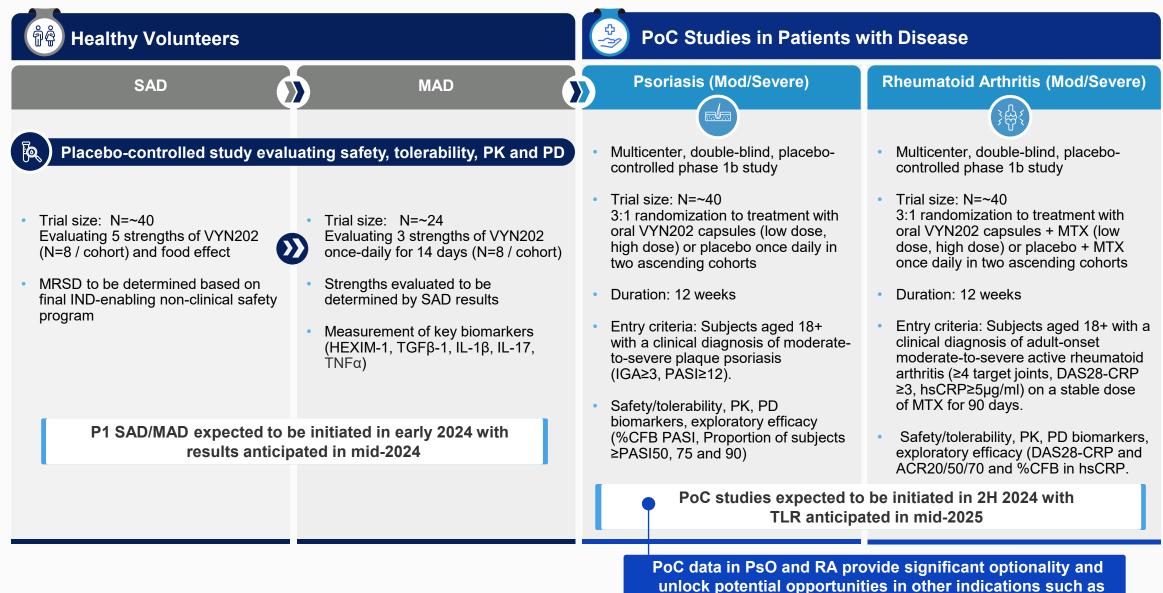


# VYN202 Clinical Development Plan

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



## VYN202 Planned Study Designs



PsA, AS and HS in P2 and beyond

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## **Financial Update**



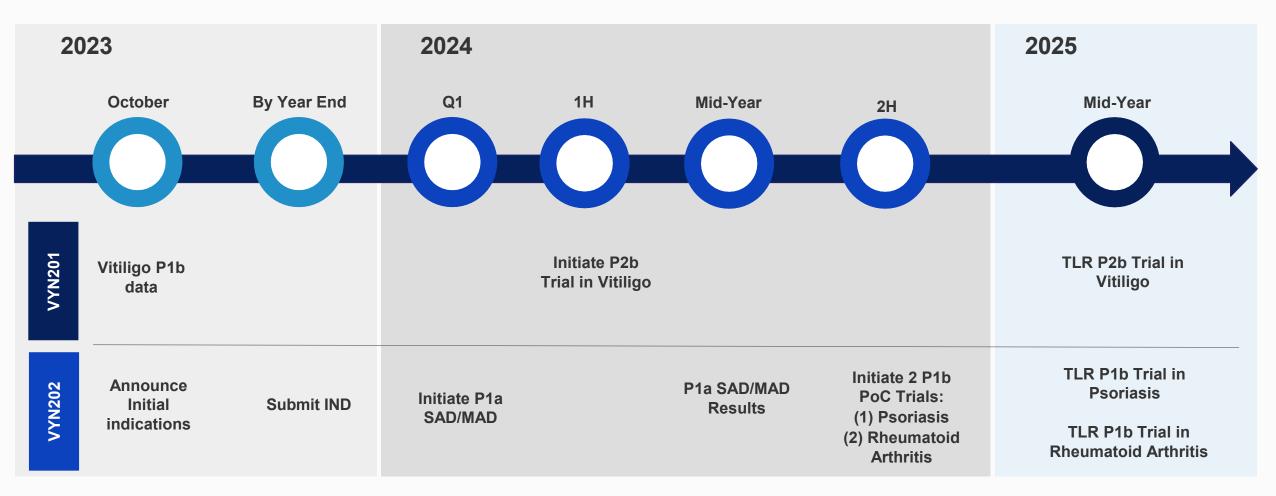
## Well Capitalized and Supported by Leading Fundamental Healthcare Investors





- \$103.7M pro forma cash balance<sup>1</sup>; No debt
  - Cash runway through end of 2025
- Pro forma fully-diluted shares outstanding: ~42.8M<sup>1</sup>
  - 14.0M shares outstanding
  - 28.6M pre-funded warrants (\$0.0001 exercise price)
  - 0.3M outstanding options, RSUs and warrants

## **Multiple Paths to Potential Value Creation Across BET Inhibitor Programs**



Cash runway through the end of 2025

# **Q&A** Session

