

# **Virtual Investor Event**

March 11, 2024

### **Forward Looking Statements**

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### **Ventyx Virtual Investor Event**

### **Speakers and Participants**

#### Ventyx Team

- Raju Mohan, PhD | Founder & CEO
- John Nuss, PhD | Chief Scientific Officer
- Martin Auster, MD | Chief Financial Officer
- Chris Krueger, JD | Chief Business Officer
- Matt Cascino, MD | VP, Clinical Development

### Guest Speakers and KOLs

- Marty Pomper, MD, PhD | Chair, Dept of Radiology, UT Southwestern
- Ted Dawson, MD, PhD | Professor of Neurology, John Hopkins University

#### **Disclosures:**

Ted M. Dawson, MD, PhD: <u>Consulting</u>: T.M.D. is compensated for his role as a consultant, advisor, or Director for FBIO Acquisition Corp L, a subsidiary of Fortress Biotech Inc.; Aevum Therapeutics, Inc.; Inhibikase Therapeutics Inc.; and Valted Seq Inc. <u>Stock Ownership</u>: T.M.D. owns stock, stock options, or royalty interests in Aevum Therapeutics, Inc.; American Gene Technologies International Inc.; FBIO Acquisition Corp L, a subsidiary of Fortress Biotech Inc.; AbbVie; Inhibikase Therapeutics Inc.; Valted, LLC; Neuraly, Inc.; D & D Pharmatech; and Valted Seq Inc. <u>Research Sponsorship</u>: T.M.D. has a sponsored research agreement with Sun Pharma Advanced Research and Aevum Therapeutics, Inc.



Marty Pomper, MD, PhD: University of Texas Southwestern Medical Center (employee); D&D Pharmatech (equity, research, royalties, consulting); PlenaryAI, Inc. (equity); z-alpha (equity, consulting); Lantheus Holdings (research, royalties); Novartis (consulting); Earli (equity, consulting)

# Internally Discovered Clinical-Stage Pipeline

### Addressing Major Autoimmune and Inflammatory Diseases with High Unmet Need

Target	Program	Preclinical	Phase 1	Phase 2	Phase 3	Next Anticipated Milestones
NLRP3 CNS-Penetrant	VTX3232	Parkinson's disease, ob	pesity, and other neuroinf	lammatory diseases		Initiate Ph 2a Parkinson's trial <b>H2 2024</b> Initiate Ph 2a Obesity trial <b>H2 2024</b>
NLRP3 Peripheral	VTX2735	Cardiovascular and oth	er systemic inflammatory	v diseases		Phase 2 ready for CV indications
S1P1R	VTX002	Ulcerative colitis				Identify partner for Phase 3 trial
TYK2	VTX958	Crohn's disease				Phase 2 Crohn's data mid 2024



# VTX958 Phase 2 Crohn's Disease Program Update



## VTX958 Phase 2 Crohn's Disease Trial

#### Randomized, Placebo-Controlled Trial in Patients with Moderate to Severe Crohn's Disease



- Protocol amendment implemented to streamline detection of a potential efficacy signal
- Primary Endpoints: Change from baseline in mean CDAI score at Week 12
- Secondary endpoints: Proportion of patients achieving endoscopic response per SES-CD; Change in mean SES-CD score; proportion of patients achieving clinical remission and clinical response per CDAI; proportion of patients achieving PRO-2 remission
- Target enrollment changed to ~93 participants (previously ~132 participants); trial now closed to enrollment
- Randomization expected to complete in Q1 2024; Topline data expected in mid 2024
- Future capital commitment for VTX958 will be dependent on identification of a positive efficacy signal in the Phase 2 trial

# VTX002 Phase 2 OLE and Program Update



# VTX002 Phase 2 Study in Moderate-to-Severe UC

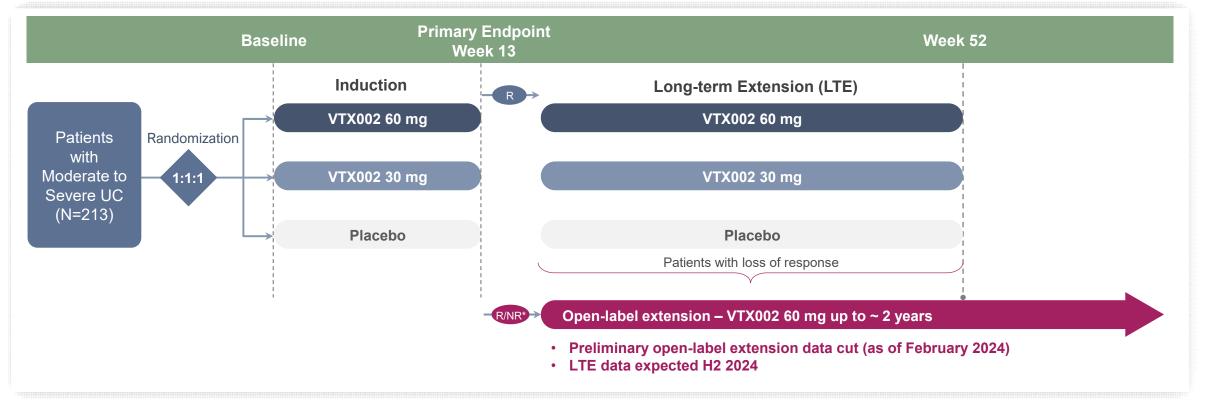
#### **Designed to Serve as the First of Two Pivotal Trials**

#### Key Eligibility Criteria

- Patients with moderately to severely active UC as defined by the Modified (3-component) Mayo Score
- Insufficient response, loss of response, and/or intolerance to conventional or advanced therapies

#### **Endpoints**

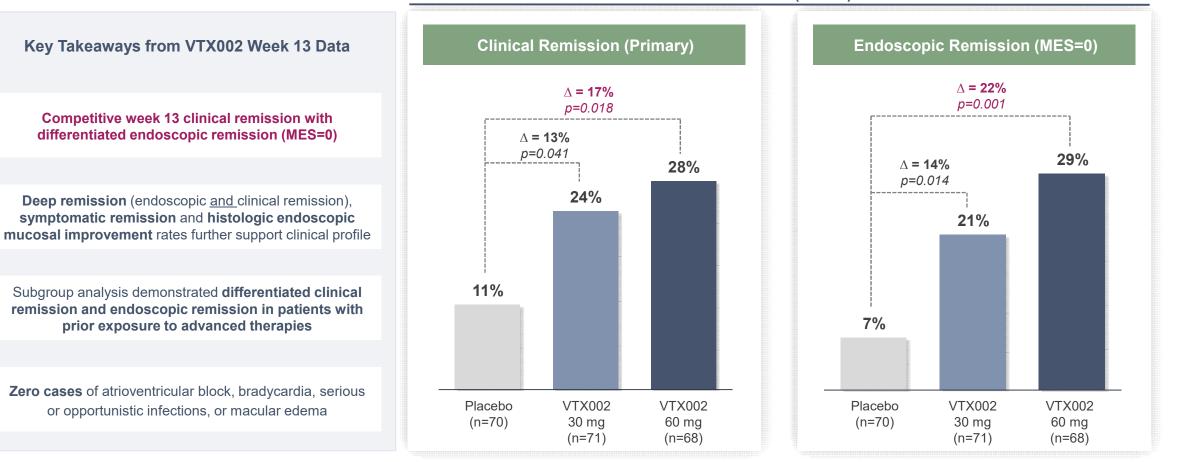
- **Primary Endpoint:** Clinical remission at Week 13 as defined by the Modified Mayo Score
- **Key Secondary Endpoints:** Endoscopic improvement; symptomatic remission; histologic remission; endoscopic improvement-histologic remission



\* Protocol version 1 study design. All patients had the option to roll-over regardless of response status. Subsequent protocol versions had patients with NR or loss of response only enter OLE Note: NCT05156125. MMS: Modified Mayo Score; R: responder; NR: non-responder

# **Overview of VTX002 Induction Data**

### Robust Week 13 Clinical Remission with Differentiated Complete Endoscopic Remission



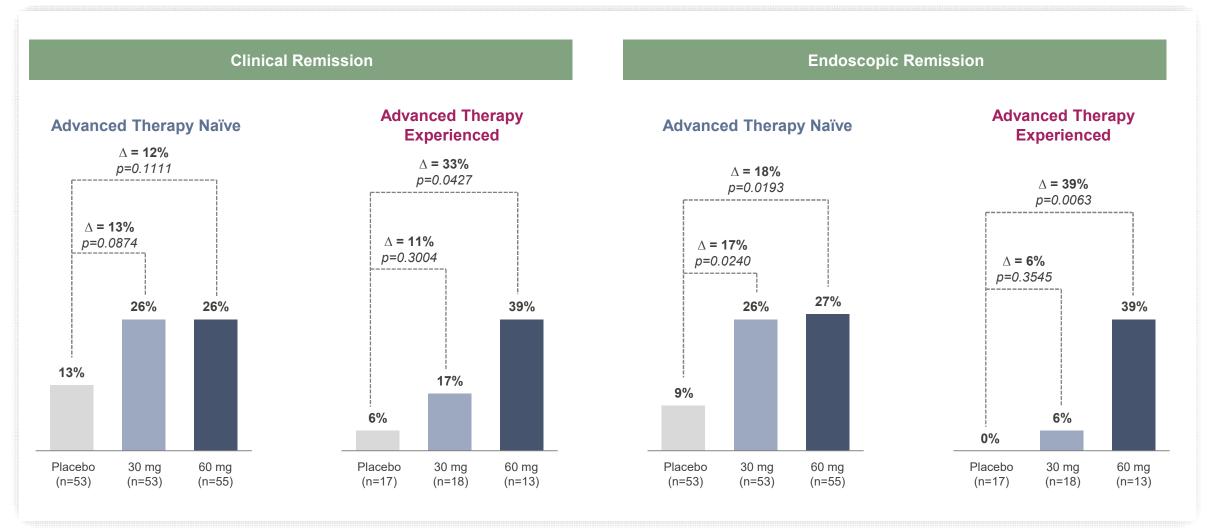
Baseline MMS 5 to 9 (N=209): Week 13



Clinical remission by modified Mayo Score (MMS) is defined as stool frequency subscore = 0 or 1, rectal bleeding subscore = 0, and endoscopic subscore  $\leq$  1 (excluding friability). Endoscopic remission is defined as a Mayo endoscopic subscore of 0. P-value for testing the treatment difference is based on Cochran-Mantel-Haenszel test adjusted for prior use of advanced therapies, baseline corticosteroid use and baseline disease activity. Full analysis set with non-responder imputation. Source: Ventyx data on file

### Induction Subgroup Analysis: Advanced Therapy Prior Use

#### **Clinical Remission and Endoscopic Remission at Week 13**

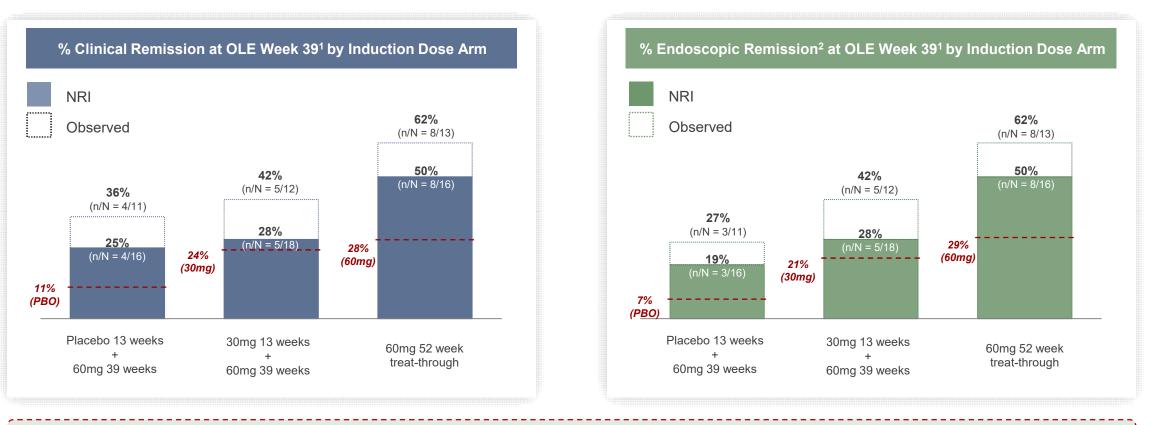


Clinical remission by modified Mayo Score (MMS) is defined as stool frequency subscore = 0 or 1, rectal bleeding subscore = 0, and endoscopic subscore  $\leq$  1 (excluding friability). Endoscopic remission is defined as a Mayo endoscopic subscore of 0. P-value for testing the treatment difference is based on Cochran-Mantel-Haenszel test adjusted for prior use of advanced therapies, baseline corticosteroid use and baseline disease activity. Full analysis set with non-responder imputation. Source: Ventyx data on file

# **Preliminary Open-Label Extension Data**

Further improvement in clinical and endoscopic remission rates at OLE week 39

- - - - % absolute endpoint rate (clinical or endoscopic remission) in induction dose arm at 13 weeks



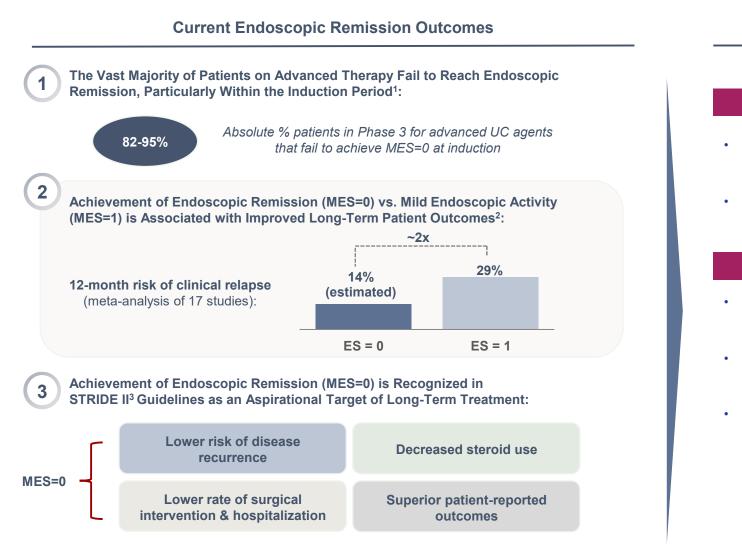
At least half (NRI) of patients in 60mg treat-through group reach clinical remission or endoscopic remission at week 52



Note: NRI = non-responder imputation; participant discontinuations are assumed to be non-remitters <sup>1</sup> Irrespective of the clinical response at the end of the 13-week induction phase; VTX002 60mg / 60mg represents 52 weeks treat-through efficacy; other groups received 60mg for 39 weeks post- induction; <sup>2</sup> MES =0; Source: Ventyx data on file.

### **Endoscopic Remission is a Consensus Long-Term Treatment Goal**

Current therapeutic outcomes remain disappointing: VTX002 has demonstrated the potential to set a new bar



### **Induction Data** Competitive clinical remission and differentiated endoscopic remission Differentiated clinical and endoscopic outcomes in prior advanced therapy subgroup **OLE Data** Clinical remission and endoscopic remission rates at OLE week 39 further differentiate VTX002 Differentiated endoscopic remission rates achieved in 52-week 60mg VTX002 treat-through group Competitive rates of *sustained clinical and endoscopic* remission: At least 38% (NRI) of patients in 60mg 52wk treat-through arm were in clinical remission at both week 13 and week 52

VTX002 Profile

- Patients in clinical remission were also in endoscopic remission

### **VTX002 OLE Conclusions and Program Status**

Ventyx to Identify Partner or Other Source of Nondilutive Financing for Phase 3

- OLE data continue to support the differentiated profile of VTX002 in ulcerative colitis
- VTX002 is Phase 3 ready (clinical, CMC, regulatory)
  - End of Phase 2 meeting scheduled in Q2 2024
  - Phase 2 trial expected to serve as the first of two pivotal trials; single Phase 3 required for registration\*
- Ventyx to identify partner or other source of nondilutive financing for Phase 3
  - New capital allocation priorities favor NLRP3 programs
  - Currently no additional internal spend planned for VTX002 other than to support ongoing Phase 2 LTE/OLE



# **NLRP3** Inhibition

### **Broad Potential in Inflammatory Diseases**



## **NLRP3 Inflammasome: A Key Component of Innate Immunity**

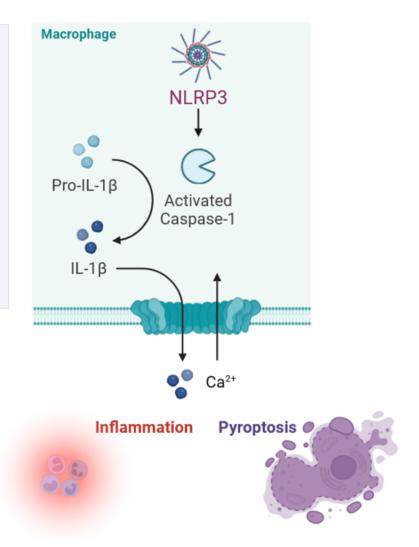
**Dysregulation Linked to a Broad Range of Inflammatory Diseases** 

Inflammasomes are activated by molecular hallmarks of infection or cellular injury

NLRP3 mediates release of proinflammatory cytokines
 IL-1β and IL-18 and drives a form of cell death called pyroptosis

active NLRP3 inflammasome disk

Nod-Like Receptor family Pyrin domain containing 3





# **NLRP3 Is a High Value Therapeutic Target**

**Broad Potential Across Systemic and CNS Inflammatory Disease** 

#### VTX2735

### **Systemic Diseases**

NLRP3 inhibition has therapeutic potential in a broad range of systemic diseases, particularly where IL-1β antibodies have demonstrated therapeutic benefit

- Cardiovascular/Metabolic
- Dermatologic
- Rheumatic
- CAPS (FCAS)
- Other orphan indications

#### VTX3232

#### **Neuroinflammatory Diseases**

NLRP3 activation (inhibition) has been linked to a range of neuroinflammatory and neurodegenerative conditions with high unmet medical need

- Parkinson's Disease
- Multiple Sclerosis
- Alzheimer's Disease
- Obesity

# VTX2735

Peripheral NLRP3 Inhibitor Phase 2 CAPS (FCAS) Trial Results

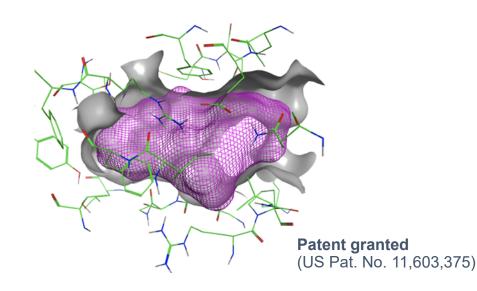


# VTX2735: A Potent & Selective Peripheral NLRP3 Inhibitor

#### Phase 2 Ready for Systemic Inflammatory Diseases

#### **Highly Potent & Selective**

- hu WB IC<sub>50</sub> (IL-1 $\beta$ ) = 80 nM
- No inhibition of other inflammasomes



#### Nonclinical & Phase 1 Package

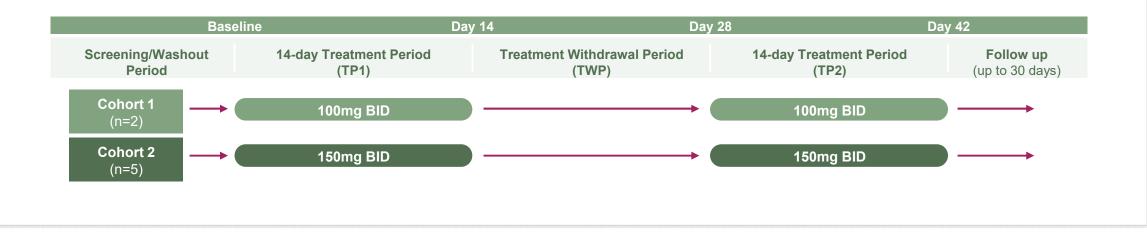
- Demonstrated PD and *in vivo* efficacy in rodent models
- High exposures & target coverage achieved in Phase 1
- Promising clinical safety profile
  - No signals that raise safety concerns that require further nonclinical study for genetox, safety pharmacology and phototoxicity
  - Chronic tox studies initiated, to finish EOY
  - Current tox data support 3 months of human dosing
- Potent inhibitor in PBMC from CAPS (FCAS) patients

#### Phase 2 proof-of-concept study in CAPS patients (FCAS) completed

# VTX2735 Phase 2 Open-Label Trial in CAPS (FCAS)

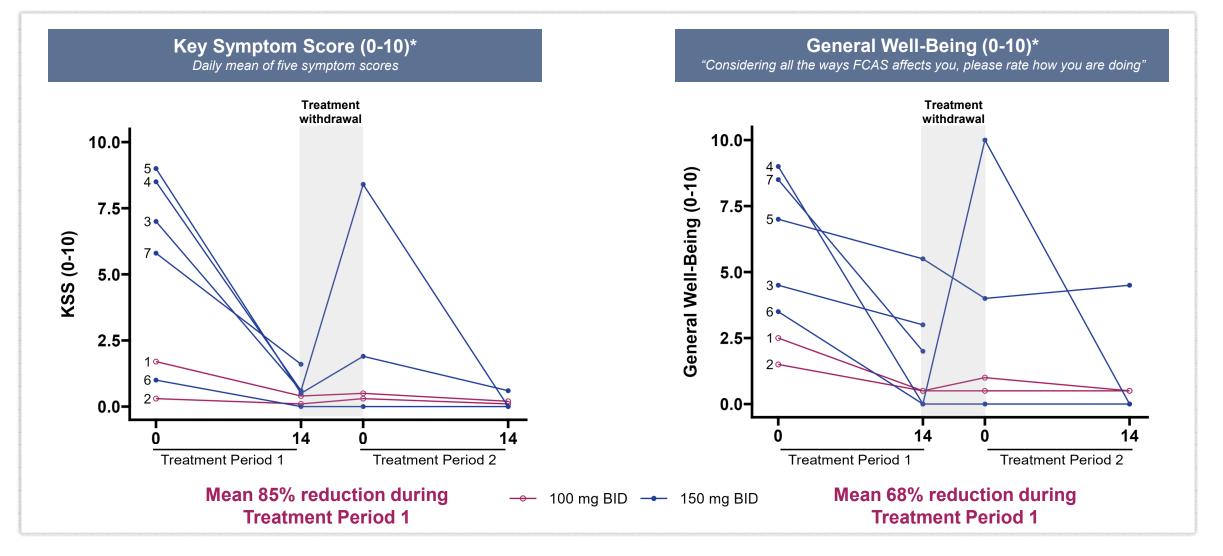
#### **Trial Design and Participants**

- CAPS is an ultra rare condition driven by excess NLRP3 activity; FCAS is the most common subtype
- Following washout of SoC, VTX2735 dosed for 14 days in two treatment periods (TP1 and TP2, 28 days total)
- Key endpoints: safety/tolerability and improvement in Key Symptom Score (KSS, mean of 5 symptom scores)
  - Pharmacodynamic assessments: hsCRP; acute phase reactants (SAA, IL-1α, IL-1β, IL-6, and IL-18)
- 7 participants enrolled (diverse NLRP3 mutations, prior SoC therapies, and symptoms)
  - 5 participants completed the trial; 1 withdrew consent after TP1 and 1 withdrew due to lack of efficacy



### **Treatment with VTX2735 Drives Reductions in Disease Activity**

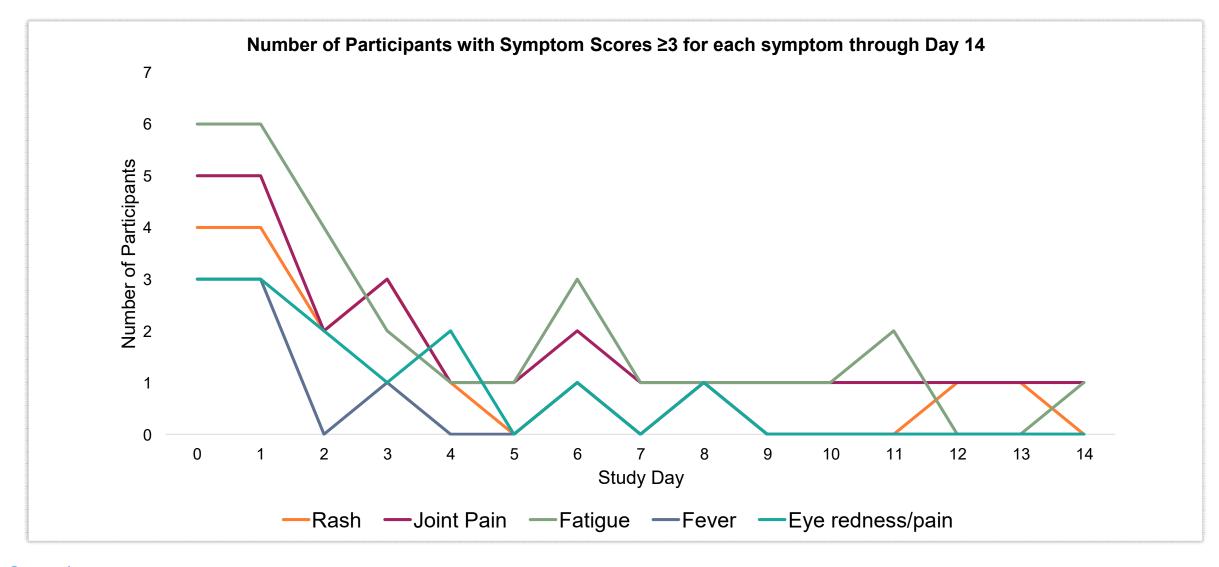
Disease Activity as Assessed by Key Symptom Score (KSS) and General Well-Being





# **VTX2735 Effects on Disease Activity**

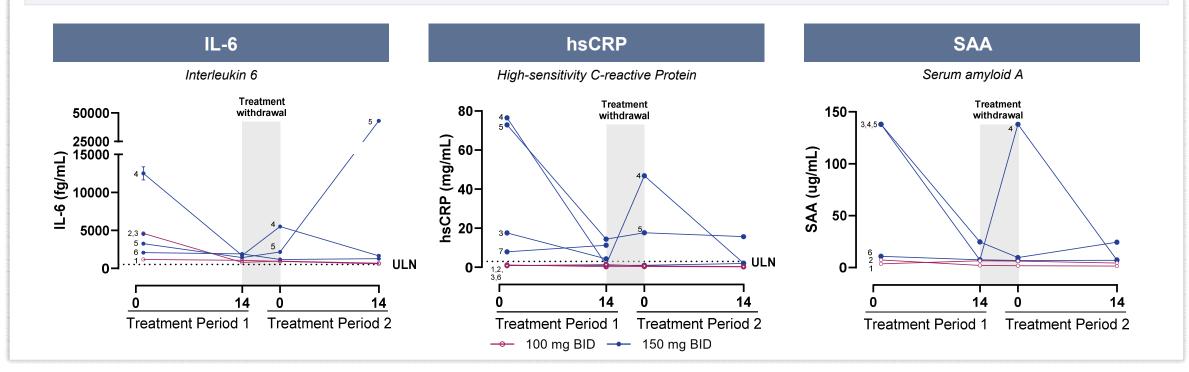
#### Improvement in All CAPS Symptoms During First Week of Treatment with VTX2735



# **VTX2735 Biomarker Changes**

#### Reductions in IL-6, hsCRP and SAA Observed as Expected with NLRP3 Inhibition

- The pleiotropic cytokine IL-6 induces acute-phase reactant proteins, including C-reactive protein (CRP) and Serum amyloid A (SAA)
- Treatment with VTX2735 reduced plasma IL-6, hsCRP, and SAA in patients with elevations at baseline, consistent with reductions in disease activity
  - Lack of baseline elevations in some patients is likely attributable to long half-life of SoC antibodies (canakinumab)



# **VTX2735 Was Well Tolerated**

#### All Adverse Events Were Mild or Moderate and Resolved Without Treatment Interruption

Related AEs								
AE	Grade	Relationship	Action	Outcome	SAE			
Activated partial thromboplastin time prolonged	Grade 1	Related	Dose not changed	Recovered/Resolved	No			
Anxiety	Grade 1	Related	Dose not changed	Recovered/Resolved	No			
Blood phosphorus increased	Grade 1	Related	Dose not changed	Recovered/Resolved	No			
Prothrombin time/INR prolonged	Grade 1	Related	Dose not changed	Recovered/Resolved	No			
Pyrexia	Grade 1	Related	Dose not changed	Recovered/Resolved	No			

#### **Grade 2 or Higher AEs**

GastroenteritisGrade 2Not relatedDose not changedRecovered/Resolved	SAE	Outcome	Action	Relationship	Grade	AE
	No	Recovered/Resolved	Dose not changed	Not related	Grade 2	Gastroenteritis
Left rotator cuff tearGrade 2Not relatedDose not changedRecovered/Resolved	No	Recovered/Resolved	Dose not changed	Not related	Grade 2	Left rotator cuff tear

### **Conclusions from the Phase 2 Trial of VTX2735 in FCAS Patients**

**Clinical Proof of Concept Achieved in CAPS Patients** 

- VTX2735 showed clinically-meaningful effects on disease activity and relevant biomarkers
- VTX2735 was well-tolerated
  - All adverse events were mild or moderate and resolved without treatment interruption
- These data represent a major milestone for VTX2735 and for NLRP3 inhibition
  - Dr. Hal Hoffman (UCSD): "Results similar to what we have seen in IL-1 inhibition studies" (Ilaris, Kineret, etc.); particularly impressive in a treatment-experienced population



# VTX2735 is a Phase 2 Ready Peripheral NLRP3 Inhibitor

#### **Highly Potent & Selective**

- Structurally unique, selective inhibitor of NLRP3
- Potent inhibitor of NLRP3 with IC<sub>50</sub> = 80 nM in human whole blood assay
- Highly potent vs. CAPS mutation variants

#### **Biologic-like Activity in CAPS Trial**

- Concentration dependent suppression of IL-1β ex vivo
- Reduction in hsCRP and other inflammation markers (IL-6, SAA, neutrophils)
- Clinically-meaningful benefits observed in CAPS patients

#### **Promising Safety Profile**

- No CYP, hERG or transporter interactions
- No toxicological signals of concern
- Well-tolerated in all SAD/MAD dose groups and Phase 2 CAPS trial

#### Phase 2 Ready

- IP position secure; patent issued (US Pat. No. 11,603,375)
- Multi-kilo API production completed
- Extended-release dosing form expected Q3 2024



# VTX3232

**CNS-Penetrant NLRP3 Inhibitor Phase 1 Trial Results** 



### VTX3232: Designed to Achieve Disease-Modifying CNS Exposures

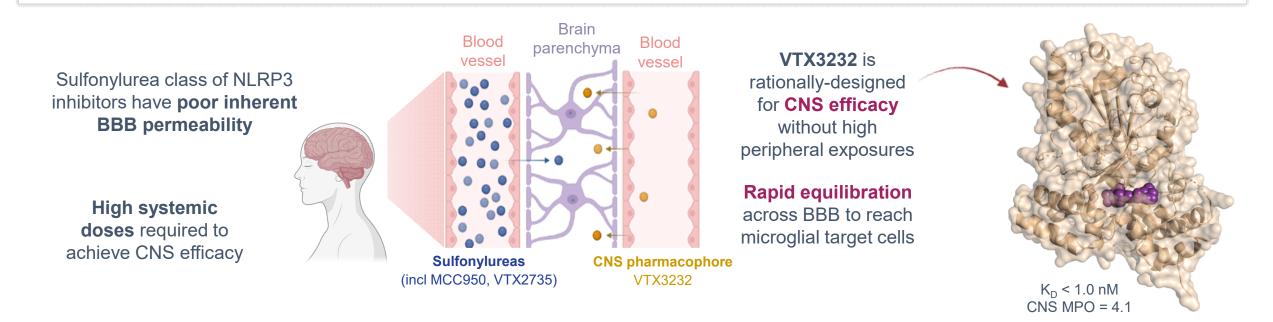
#### Phase 2 Ready for Neuroinflammatory Diseases



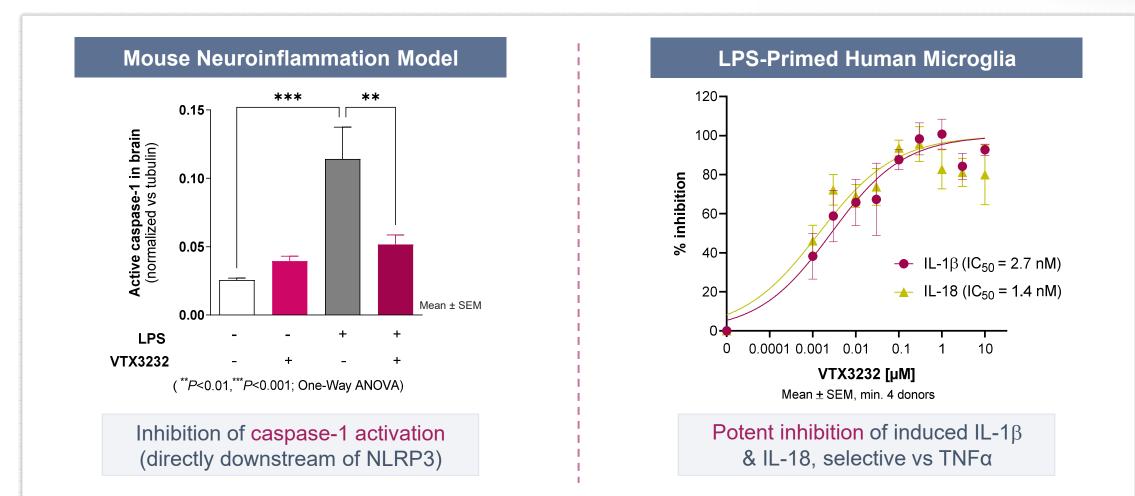
- hu WB IC<sub>50</sub> (IL-1β) = **15 nM**
- hu Microglia  $IC_{50}$  (IL-1 $\beta$ ) = **2.7 nM**
- No inhibition of other inflammasomes

Optimal CNSdrug properties in Phase 1

- Promising safety & tolerability through 14-day MAD
- Near-equal CNS partitioning; human Kp,uu = 0.5
  - $T\frac{1}{2} = -17$  h with high free-drug fraction
- 20-40 mg QD exceeds CSF IL-1 $\beta$  IC<sub>90</sub> for 20-24 h
- Robust effects on inflammatory biomarkers



### **VTX3232 Efficacy In Neuroinflammation Models**

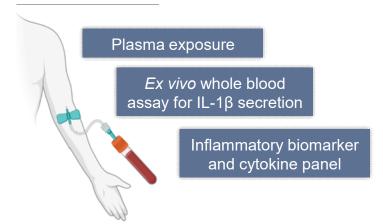


#### VTX3232 activity translates to CNS-relevant assays and models

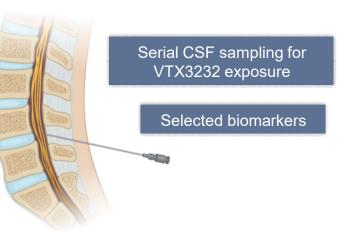


### VTX3232 Phase 1 SAD and 14-Day MAD Trial in Healthy Volunteers

Phase 1 SAD and MAD Study Goals	Status	
SAD and MAD to assess safety, tolerability and exposure	Complete	
Ex vivo pharmacodynamic assessment of IL-1 $\beta$ inhibition*	Complete	
Separate cohorts for VTX3232 exposure in CSF**	Complete	
Plasma and CSF biomarkers	Ongoing	
Relative bioavailability of VTX3232 tablets	~100%	
Food effect study	No food effect	



\*LPS/ATP stimulation of huWB from treated subjects in MAD \*\*CSF exposure is a surrogate for drug free-fraction in the brain



# VTX3232 Safety Assessment

#### All Adverse Events Considered Mild or Moderate (Phase 1 MAD Cohorts)

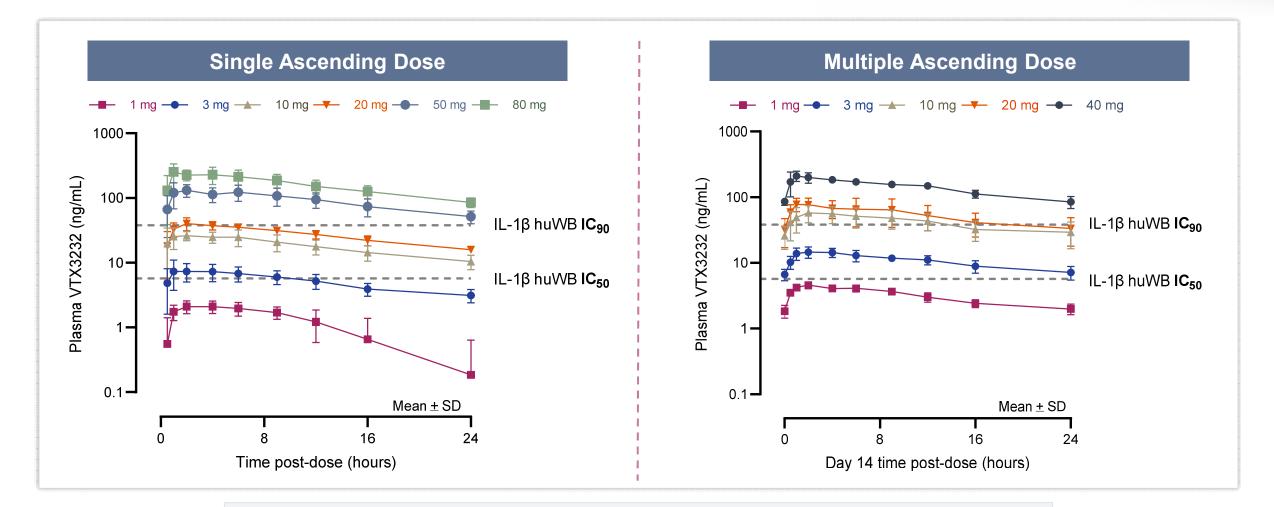
		VTX3232 (MAD)					
Treatment Emergent AEs	Placebo (n=10)	<b>1 mg</b> (n=6)	<b>3 mg</b> (n=6)	<b>10 mg</b> (n=6)	<b>20 mg</b> (n=6)	<b>40 mg</b> (n=6)	
Vomiting	1 (10%)	-	-	-	-	-	
Conjunctivitis	1 (10%)	-	-	-	-	-	
Constipation	1 (10%)	1 (16.7%)	-	-	-	-	
Covid-19	1 (10%)	-	-	-	-	1 (16.7%)	
Viral Syndrome	1 (10%)	-	-	-	-	-	
Gastroenteritis	-	-	-	1 (16.7%)	-	-	
Contact dermatitis	-	-	-	-	1 (16.7%)	-	
Dry skin on legs	-	-	-	-	1 (16.7%)	-	
Lightheaded	-	-	-	-	-	1 (16.7%)	
Headache	-	-	-	-	-	1 (16.7%)	
Nausea	-	-	-	-	-	1 (16.7%)	
Drowsiness	-	-	-	-	-	1 (16.7%)	

#### Safety Findings

- VTX3232 was well tolerated in Phase 1 SAD/MAD trial
- All treatment emergent AEs considered mild or moderate (CTCAE Grade 1 or 2)
- No dose-limiting toxicities observed
- Safety profile supports wide therapeutic window

Note: MAD CSF cohorts are excluded in the table above as the safety profile in these cohorts is obscured by AEs related to indwelling spinal catheters.

### VTX3232 Phase 1 SAD and 14 Day MAD Pharmacokinetics

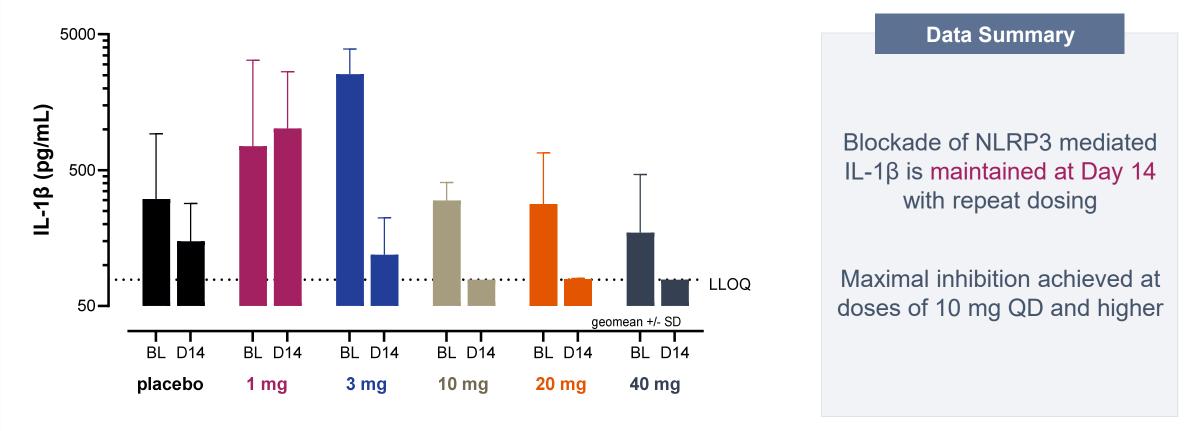


Dose-related, linear exposure from 1 mg to 80 mg

**3 mg QD** achieves **24 h IL-1β IC**<sub>50</sub> coverage

### VTX3232 Whole Blood Ex Vivo Stimulation Assay

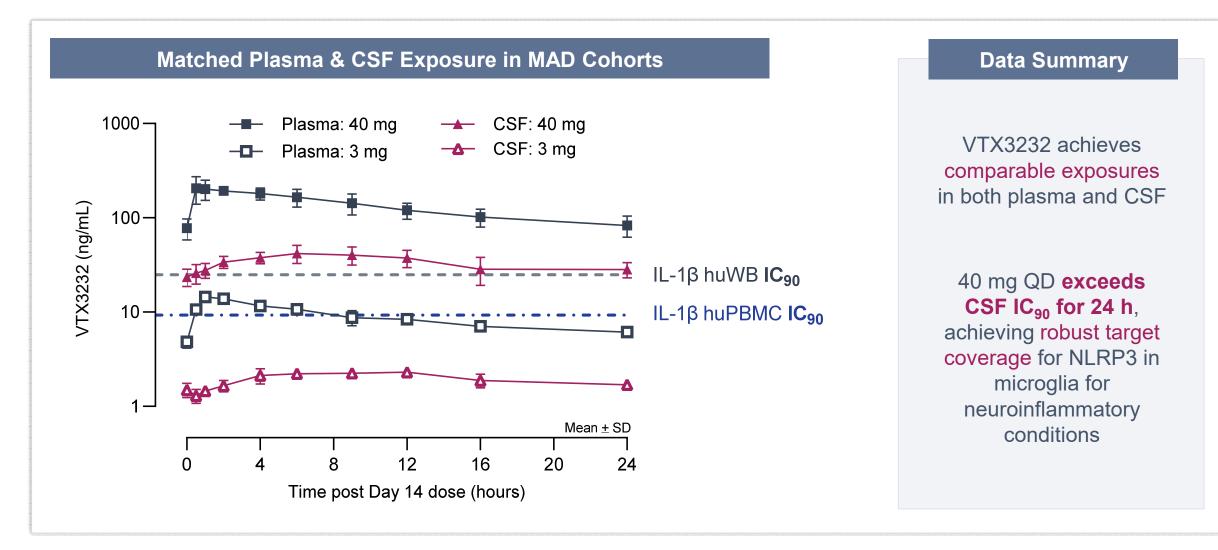
Potent Target Engagement Demonstrated At and Above 3 mg QD



1. Lower Limit of Quantitation (LLOQ)= 78 pg/mL. All subjects below LLOQ were assigned a value of 78 pg/mL.

2. Day 14 pre dose (D14). Pre dose baseline (BL).

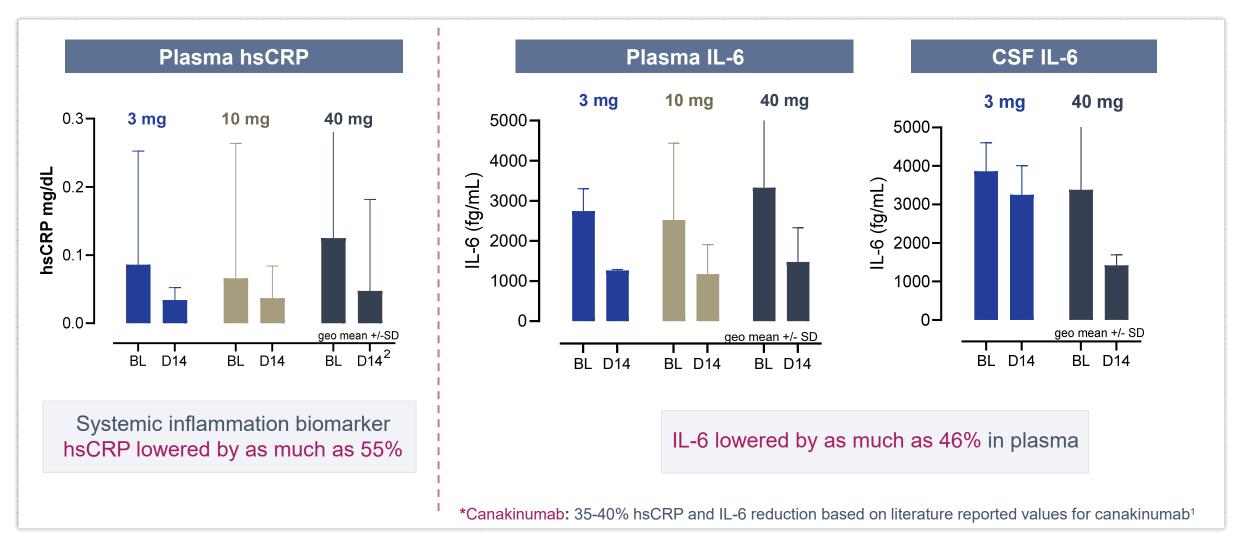
### VTX3232 Pharmacokinetics in Cerebrospinal Fluid (CSF)



VENTYX BIOSCIENCES Source: Ventyx internal data.

### **VTX3232 Effects on Inflammatory Biomarkers**

Reduction in hsCRP and IL-6 Comparable to that Achieved by Canakinumab\* (IL-1β mAb)





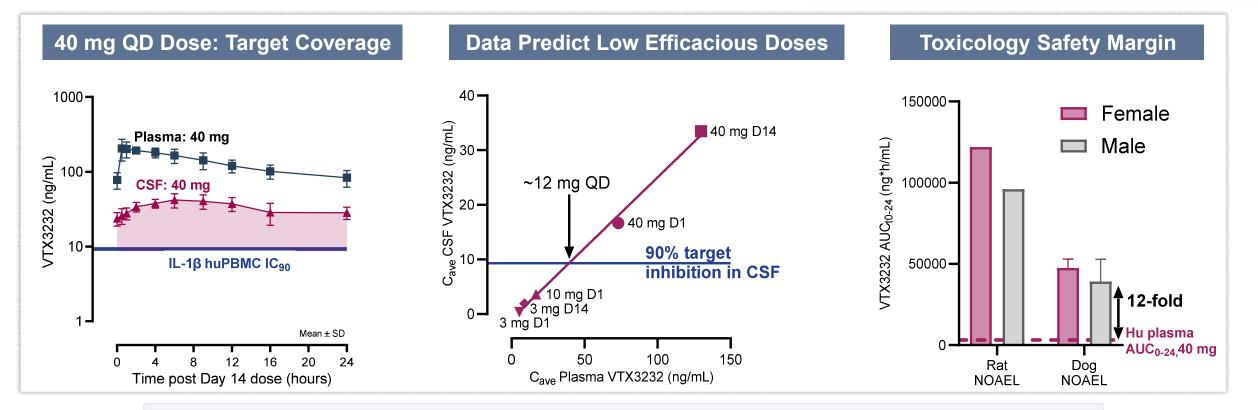
1. Ridker PM, MacFadyen JG, Everett BM et al.. Lancet 2018; 391:319-28; Ridker PM, Libby P, MacFadyen JG et al. Eur Heart J. 2018; 39:3499-507.

2. Day 14 pre dose samples not available for 40mg cohort. Data 2hr post dose displayed.

Source: Ventyx internal data. BL: pre-dose baseline. D14: Day 14 pre-dose samples, unless otherwise noted.

# **Conclusions from the Phase 1 Trial of VTX3232 in NHV**

Potentially Class-leading Safety and Efficacy Profile for Neuroinflammatory Diseases



- Well-tolerated in healthy volunteers
- Robust target coverage achieved in the plasma and CNS
- Potent, dose-dependent PD effect in ex vivo IL-1β assay and on inflammatory biomarkers
- CSF IL-1β IC<sub>90</sub> coverage for 24h at 40 mg QD
- Data predict target coverage ≥ IC<sub>90</sub> at doses ≥ 12 mg

### VTX3232: Potential First-Mover Position in NLRP3-Mediated Neuroinflammation

#### **Highly Potent & Selective**

- Structurally unique, unrelated to MCC-950
- $K_d < 1$  nM to NLRP3 NACHT domain
- $IC_{50} = 13 \text{ nM}$  hu WB, 2.7 nM in microglia
- Selective vs AIM2/NLRC4
- Doses >3 mg suppress IL-1 $\beta$  release for >24 h

#### High CNS Target Coverage

- $T\frac{1}{2} = -17$  h with high free fraction
- High CNS penetration; human Kp,uu = 0.5
- 3 mg QD repeat dosing maintains CSF IC<sub>50</sub> coverage
- 40 mg QD repeat dosing exceeds CSF IC<sub>90</sub> coverage

#### **Promising Safety Profile**

- No CYP, hERG, or transporter interactions
- No toxicological signals for further non-clinical study
- Well-tolerated in all SAD/MAD dose groups

#### Phase 2 Ready

- IP position secure; patent application published 09/23
- Multi-kilo API production complete
- Solid-oral dosing form with high bioavailability



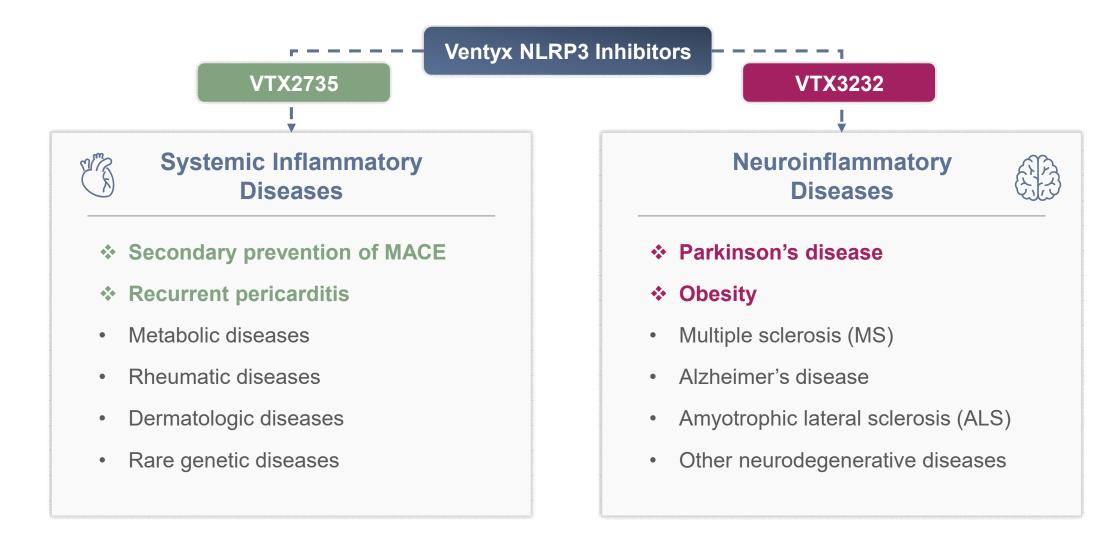
# **NLRP3 Inhibitor Portfolio**

**Clinical Development Strategy** 



## **Building a Diversified Pipeline in Inflammatory Disease**

**Broad Potential in Systemic Inflammatory and Neuroinflammatory Conditions** 



DSCIENCES MACE: Major adverse cardiovascular event.

# VTX2735 in Cardiovascular Disease



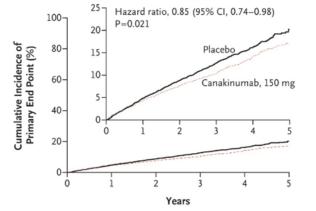
## **Attractive Opportunities for VTX2735 in Cardiovascular Disease**

Leading Opportunities – Secondary Prevention of MACE and Recurrent Pericarditis

#### **MACE** Prevention

- CANTOS trial of canakinumab validates IL-1β approach in reduction of MACE risk
  - Reductions in MACE associated with inflammatory biomarker reductions (hsCRP, IL-6, IL-18)<sup>1</sup>

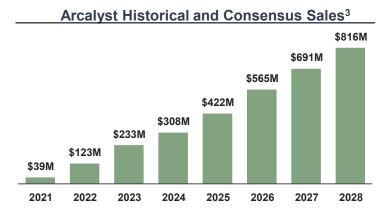




- A safe, oral peripheral NLRP3 inhibitor may be an ideal approach for secondary prevention of MACE
  - Blockbuster opportunity with multiple targetable populations

#### **Recurrent Pericarditis**

- 2021 approval of Arcalyst (rilonacept) validates IL-1α/β approach
  - ~40,000 patient U.S. prevalent population with RP<sup>2</sup>
  - Arcalyst generated \$233M in 2023 sales in 2nd full year of commercial availability; consensus sales >\$800M in 2028



- Regulatory precedent for efficient path to market
  - Open-label Phase 2 followed by a single registrational Phase 3 trial

Source: 1. Ridker et al., N Engl J Med 2017; 377:1119-1131 DOI: 10.1056/NEJMoa1707914; 2. Klein et al., J Am Heart Assoc. 2021 Aug 3;10(15):e018950. doi: 10.1161/JAHA.120.018950; 3. Historical sales from Kiniksa investor presentation; consensus sales (2024+) from Evaluate Pharma.

# VTX3232 Phase 2a Trial in Parkinson's Disease



### VTX3232 Has Potential for Disease Modification in Parkinson's Disease

### **Strong Mechanistic Rationale and High Unmet Need**

#### High Unmet Need

- ~1 million U.S. patient prevalent population (2<sup>nd</sup> most common neurodegenerative disease)
- No disease-modifying therapies
  approved for Parkinson's disease

#### Large Addressable Market

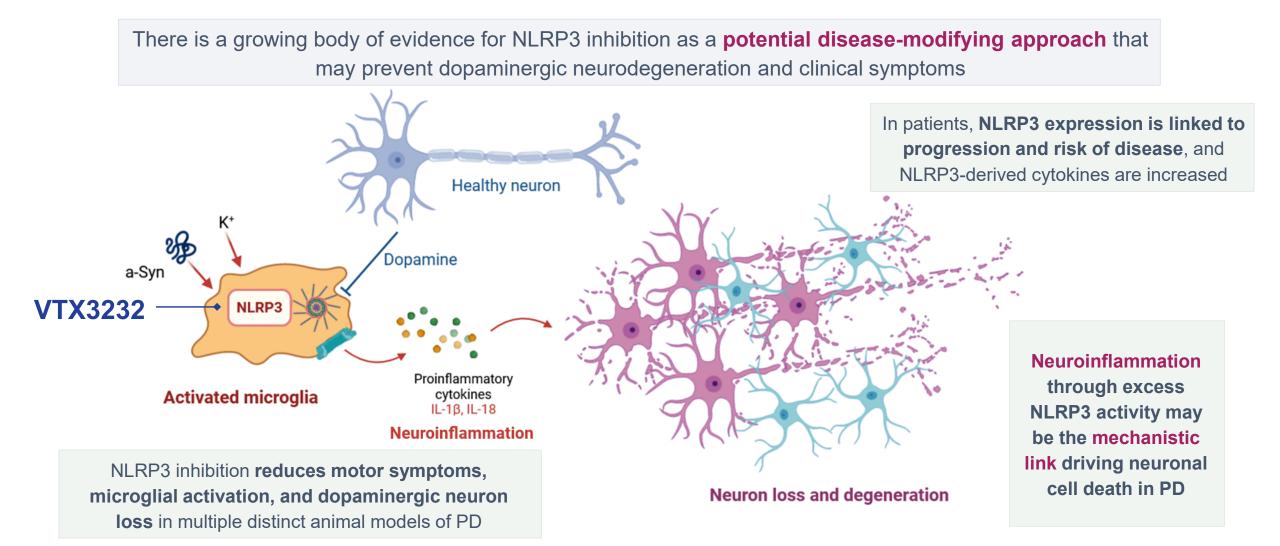
- >\$4B annual market for symptomatic therapies in 2021<sup>1</sup>
- Estimated ~\$10-\$15B+ annual TAM for first disease-modifying therapy<sup>2</sup>

#### **Strong Biologic Rationale**

- **Neuroinflammation** is central to Parkinson's disease pathogenesis
- Strong evidence in preclinical models and PD patient samples for NLRP3 as a key driver of neuronal degeneration

## NLRP3 Is a Promising Therapeutic Target in Parkinson's Disease

### **Neuroinflammation Plays a Central Role in Parkinson's Pathogenesis**



Ventyx so BIOSCIENCES 20

Source: Liang T et al. 2022 Front. Pharmacol. 13:845185. Ising, C et al. Nature 575, 669–673 (2019). Panicker et al. Neuron. 2022;110(15):2422-2437.e9. Grotemeyer, A. et al., *J Neuroinflammation* 20, 79 (2023). Huang et al., *J Nueroimmunology*, Volume 354, 2021, 577543. Gordon et al., *Sci. Transl. Med.* 10,eaah4066(2018).

## Phase 2a Trial in Participants with Early Parkinson's Disease

### **Disease-Relevant Biomarkers and Neuroimaging**

• A Phase 2a trial in participants with early Parkinson's disease is expected to initiate in H2 2024

- Impact on relevant plasma and CSF biomarkers: IL-1β, IL-18, α-synuclein, NfL, GFAP, NGAL, Aβ40/42
- Impact on microglial inflammation via neuroimaging
- Test of therapeutic hypothesis that CNS NLRP3 inhibition will result in reduced inflammation and disruption of PD pathophysiology



#### Objectives

- Disease and NLRP3-related biomarkers in plasma and CSF
- Pharmacokinetics
- Neuroimaging for microglial inflammation

# VTX3232 Phase 2a Trial in Obesity



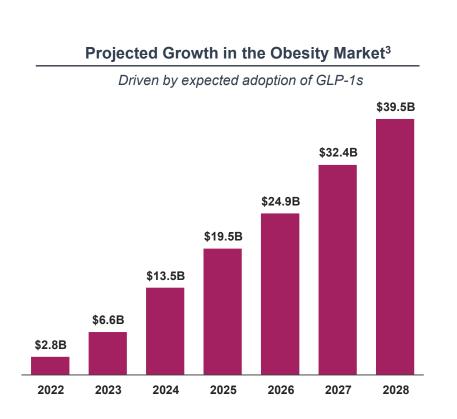
### **NLRP3 Is Emerging as an Important Target in Obesity**

### The NLRP3 Inflammasome in Obesity and Related Metabolic Disease

- The NLRP3 inflammasome is emerging as an important axis in obesity and obesity-related metabolic disease
  - Obesity is a chronic inflammatory condition associated with release of NLRP3-related cytokines such as IL-1β and IL-6
  - This inflammation may drive a range of metabolic disorders, including insulin resistance, diabetes, and atherosclerosis
  - Calorie restriction and exercise-mediated weight loss in obese individuals is associated with reduced expression of NLRP3 and decreased systemic inflammation<sup>1</sup>

#### NLRP3 inhibition drives weight loss in diet-induced obesity (DIO) mouse model<sup>2</sup>

- Weight loss effect similar in magnitude to semaglutide (GLP-1)
- Brain exposure appears necessary for weight-loss effect
- Inhibition of reactive gliosis (inflammation) in the hypothalamus proposed as potential mechanism



Blockbuster opportunity for novel mechanisms in obesity and related metabolic impairment

### Source: 1. Vandanmagsar et al., *Nat Med.* 2011 Feb;17(2):179-88. doi: 10.1038/nm.2279; 2. Thornton et al., *Journal of Pharmacology and Experimental Therapeutics* Feb 9, 2024, JPET-AR-2023-002013; DOI: https://doi.org/10.1124/jpet.123.002013 3. EvaluatePharma market projections.

### Phase 2a Trial of VTX3232 in Obese Participants with Elevated CV Risk

Measuring Key Inflammatory Biomarkers and Changes in Body Composition

- A randomized, placebo-controlled trial of VTX3232 in obese participants with elevated CV risk is expected to initiate in H2 2024
  - Adult participants with obesity, elevated CRP, and at least one additional risk factor of atherosclerotic cardiovascular disease
- Trial intended to efficiently identify a potential efficacy signal and support path forward in obesity
  - Biomarkers to assess CV risk reduction in obese population; potential to measure other markers of metabolic impairment



- Change from baseline in CRP (primary)
- Inflammatory biomarkers
- Change from baseline in weight and body composition



# **Internally Discovered Clinical-Stage Pipeline**

### Addressing Major Autoimmune and Inflammatory Diseases with High Unmet Need

Target	Program	Preclinical	Phase 1	Phase 2	Phase 3	Next Anticipated Milestones
NLRP3 CNS-Penetrant	VTX3232	Parkinson's disease, ol	pesity, and other neuroinf	lammatory diseases		Initiate Ph 2a Parkinson's trial <b>H2 2024</b> Initiate Ph 2a Obesity trial <b>H2 2024</b>
NLRP3 Peripheral	VTX2735	Cardiovascular and oth	er systemic inflammatory	v diseases		Phase 2 ready for CV indications
S1P1R	VTX002	Ulcerative colitis				Identify partner for Phase 3 trial
TYK2	VTX958	Crohn's disease				Phase 2 Crohn's data mid 2024

Cash, cash equivalents and marketable securities of \$252.2M\* as of December 31, 2023, are expected to fund operations into at least the second half of 2026

\* Does not include \$100 million gross proceeds raised in PIPE financing announced on March 7, 2024



