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COMPANY

INTRODUCTION AND PIPELINE

VTX958

TYK2 INHIBITOR, PHASE 1

VTX002

S1P1R MODULATOR, PHASE 2

VTX2735

PERIPHERAL NLRP3 INHIBITOR, PHASE 1

CNS NLRP3 Inhibitor

PRECLINICAL

SUMMARY

MILESTONES & HIGHLIGHTS







Our Leadership Team

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William White
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AKERO THERAPEUTICS



Our Mission: To become a Leading Immunology Company

Underpinned by strong drug discovery and development capabilities



With three, differentiated, clinical-stage candidates

and a deep pipeline of preclinical programs that target immune-mediated and inflammatory disease indications



Our internally-discovered small molecule drugs

allow us to own 100% commercial rights to our entire portfolio with long patent lives for all product candidates



Our experienced team and our internal R&D engine

continue to generate candidates with potential to address diseases with high unmet need

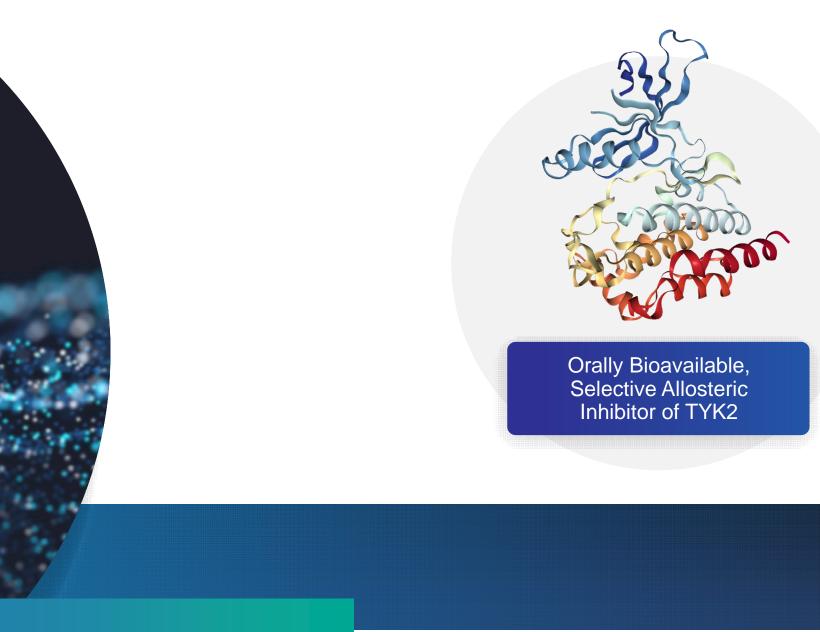


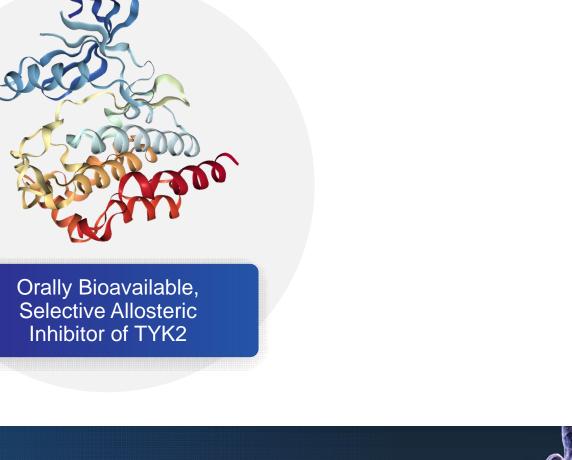
Broad Pipeline of Candidates With Multiple Near-Term Catalysts

Addressing Established Inflammatory and Immunology Markets with Wholly Owned Product Portfolio

TARGET	PROGRAM	PRECLINICAL	PHASE 1	PHASE 2	PHASE 3	NEXT ANTICIPATED MILESTONES
TYK2	VTX958	Potential indications inclu	ude psoriasis, psoriatic a	rthritis, Crohn's disease and othe	ers	Complete Phase 1 MAD H1 2022 Initiate Phase 2 POC trial(s) H2 2022
S1P1R	VTX002	Ulcerative Colitis				Report topline Phase 2 data 2023
NLRP3 Peripheral	VTX2735	Potential indications inclu	ude cardiovascular, hepa	tic, renal, and rheumatologic disc	eases	Complete Phase 1 H1 2022 Initiate Phase 2 POC trial(s) H2 2022
NLRP3 CNS-penetrant	Preclinical	Neuroinflammatory disea	ases			Initiate IND enabling studies 2022 File IND H2 2022









VTX958 Program Summary

Allosteric, selective TYK2 inhibitor



Potentially Differentiated TYK2 Inhibitor

- Selective, allosteric TYK2 inhibitor
- TYK2 functional selectivity can potentially differentiate clinical profile vs. less selective TYK2 inhibitors



___Clinically ___ Validated Target

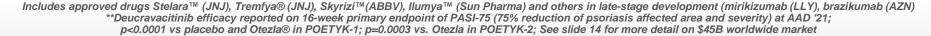
- Well established clinical efficacy in psoriasis, IBD and psoriatic arthritis with biologics targeting IL-12/IL-23 and IL-23* pathways
- These pathways also the target of allosteric TYK2 inhibitors
- Phase 3 PoC in psoriasis has been demonstrated** by BMS' allosteric TYK2 inhibitor deucravacitinib

Deucravacitinib in Phase 2/3 for Crohn's disease, psoriatic arthritis, lupus



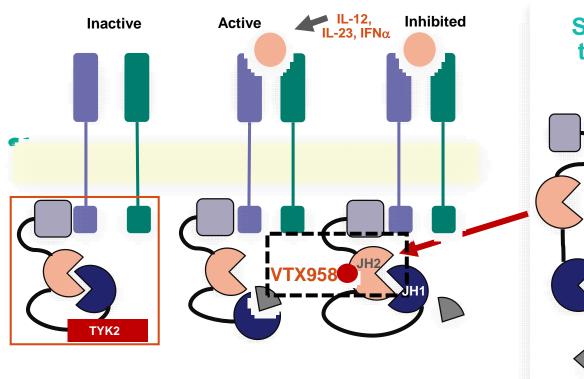
____ Large ____ Addressable Markets

 Multiple autoimmune disorders in dermatology, IBD, renal and rheumatology total \$45B WW





Allosteric Inhibitor VTX958 Binds Selectively to the TYK2 JH2 Domain



Targeting the JH2 (allosteric) domain of TYK2 affords TYK2 inhibitors with selectivity against other JAK isoforms

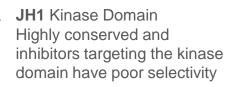
Structural domains in the JAK/TYK2 family



FERM/SH2 Receptor interaction

JH2 Allosteric Domain

Much less conserved amongst the JAK family with structurally distinct binding pockets





Features of VTX958 JH2 allosteric inhibition



- **Selectivity** for TYK2 JH2 vs. JAK1 JH2 domain (>4,000 X)
- No binding to JAK2/3 JH2 domains
- **No** binding to TYK2 kinase JH1 and
- No kinase enzyme inhibition of any JAK family member



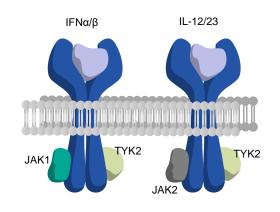
Selective **TYK2** Inhibitor



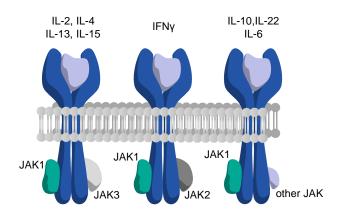
VTX958 More Selective than Deucravacitinib for TYK2 JH2 Domain

Targeting JH2 domain selectively inhibits TYK2 pathways (IL-12, IL-23, IFNα) while avoiding the JAK1/2/3 pathways

	DEUCRAVACITINIB	VTX958
TYK2-JH2 Binding K _d	0.009 nM	0.058 nM
JAK1-JH2 Binding K _d	0.43 nM	240 nM
Selectivity (fold)	48	>4,000



TYK2 essential signaling pathways



JAK1 dependent signaling pathways



VTX958 Selectively Targets IL-12, IL-23 and IFN α

VTX958 Potently Inhibits TYK2 Pathways

Selective and potent inhibition of IL-12/23 and Type I interferon axis allows targeting pathways driving immune-mediated diseases

Proinflammatory Innate & Th1/Th17 Cytokines

Psoriasis	Patient	PBMC
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Drug	IL-12 IC ₅₀ (nM)	IL-23 IC ₅₀ (nM)	IFNα IC ₅₀ (nM)
VTX958	35	5	12
deucravacitinib	10	10	5

VTX958 Has No Measurable Inhibition of JAK1-Mediated Pathways

Lack of inhibition of IL-6, IL-10 and other protective cytokines may avoid potential AEs associated with less selective inhibitors

Pleiotropic Cytokines with Protective Functions

Drug	IL-22 IC ₅₀ (nM)	IL-10 IC ₅₀ (nM)	IFNγ IC ₅₀ (nM)	IL-4 IC ₅₀ (nM)	IL-6 IC ₅₀ (nM)
VTX958	>10,000	>10,000	>10,000	>10,000	>10,000
deucravacitinib	114	20	350	249	464

— Key — Takeaways

Potent activity against IL-23, a key cytokine implicated in psoriasis and other indications

Broad therapeutic window with VTX958 may allow for higher exposures in Phase 2/Phase 3 studies





VTX958 Phase 1 SAD Results Support Clinical Advancement



SAFETY

Well-tolerated across all cohorts; all AEs observed were mild and not dose- or time-of-dose dependent



PHARMACOKINETICS

No dose-saturation observed; PK and absorption profiles suggest continued absorption throughout GI tract

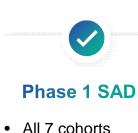


PHARMACODYNAMICS

Dose-dependent VTX958-mediated effect on TYK2 signaling observed in both *in vivo* gene expression studies and *ex vivo* stimulation assays



VTX958 Clinical Development Plan



completed

in MAD trial

 Safety and exposure data allow exploration of high exposure multiples

DOSING COMPLETE

Phase 1 MAD

- Explore safety and exposure data on repeat dosing
- Elucidate PD profile with multiple dose exposure across therapeutic range
- Select Phase 2 doses

INITIATED DOSING Q4 2021

Phase 1 MAD
Complete Trial

H1 2022

Phase 2 PoC

Initial Phase 2 trial in moderate-to-severe **psoriasis** patients

TYK2 inhibition is a de-risked mechanism for treatment of psoriasis

H2 2022

Phase 2 PoC

Phase 2 trials planned in additional indications (psoriatic arthritis, Crohn's disease and others)

VTX958's selectivity may allow for differentiation in multiple indications

H2 2022

CMC & Toxicology

- Chronic toxicology studies in process to support Phase 2/3 trials
- Solid oral dose form developed for Phase 2/3 trials

Planning

Additional Phase 2 trials





Commercial Potential in Large Well-Established Markets

INDICATION*	PATIENTS IN THE U.S.	GLOBAL DRUG REVENUE* (2020)	TARGET POPULATION
Psoriasis Dermatology	~8M	~\$20B	25-30% MODERATE-TO-SEVERE
Crohn's disease IBD	~700K	~\$13B	30-40% MODERATE-TO-SEVERE
Ulcerative colitis IBD	~1M	~\$7B	30-40% MODERATE-TO-SEVERE
Psoriatic arthritis Rheumatology	~1M	~\$4B	40-60% MODERATE-TO-SEVERE
SLE Rheumatology	Up to 500K	~\$1B	



Psoriasis and Psoriatic Arthritis

Commercial Snapshot

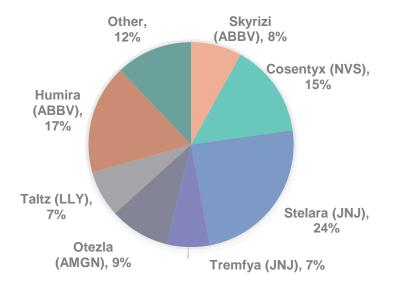
Psoriasis Commercial Opportunity

- ~8M patients in U.S.
- 25-30% are moderate-to-severe
- U.S. biologic penetration ~15-20%
- Total treated U.S. moderate-severe population ~1.2m*
- Global revenue of psoriasis drugs ~\$20B in 2020

Psoriatic Arthritis Opportunity

- ~1M patients in U.S.
- Up to ~40-60% are moderate-to-severe
- Total treated U.S. moderate-severe population ~500k*
- Global revenue of PsA drugs ~\$4B in 2020

Leading Branded
Drugs in the
\$20B Worldwide
Psoriasis Market



Key Takeaways

- Significant share shift in recent years from anti-TNF agents to newer biologics (anti-IL-23, IL-12/23 and anti-IL-17s antibodies)
- Despite limitations, Otezla had \$2.2B in 2020 sales and is the only major oral player in these markets
- TYK2 de-risked in both indications by deucravacitinib
 - Psoriasis: Phase 3 trial 6mg QD dose was statistically superior vs. Otezla*
 - PsA Phase 2 data showed stat. significant ACR20 and ACR50 scores vs pbo[^]; now in Phase 3 trials at 6mg QD dosing

Sources: Evaluate Pharma, Company Estimates, Wall Street Research; *BMS AAD 2021 Presentation; PsA=psoriatic arthritis; *BMS deucravacitinib: 54-59% responses on PASI75 at 16 weeks achieved statistically significant results vs. apremilast control





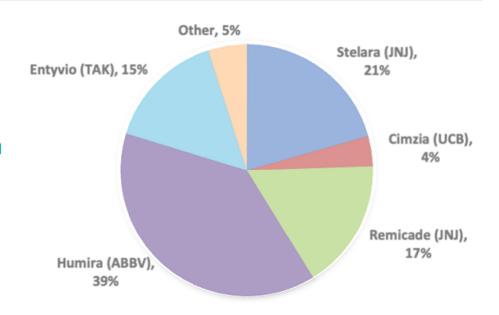
Crohn's Disease

Commercial Snapshot

Crohn's Disease (IBD) Commercial Opportunity

- ~700k+ Crohn's disease patients in U.S.
- 30-40+% are moderate-to-severe
- U.S. biologic penetration ~35-40%
- Global revenue of Crohn's disease drugs ~\$13B in 2020

2020 Market
Share of Leading
Branded Drugs in
the \$13B WW
Crohn's Disease
Market



Key Takeaways

- ~\$13B market dominated by parenteral biologic therapies
- Share trends have favored Stelara (anti-IL-12/23) with more selective anti-IL-23 biologics (i.e. Skyrizi) producing positive Phase 3 data
- Dosing of IL-23 targeting biologics in CD may be as great as 3-4x dosing in dermatology indications
- Biologics targeting anti-IL12/23 and anti-IL23 provide rationale for TYK2 inhibitor development; higher selectivity may yield wider therapeutic index, potentially supporting differentiation

Sources: Evaluate Pharma, Company estimates, Wall Street research, BMS AAD 2021 Presentation; Skyrizi label dosing for psoriasis/PsA vs. Phase 3 Crohn's dosing regimen







VTX002 Program Summary

Phase 2 S1P1R modulator for ulcerative colitis



Potentially Differentiated S1P1R Modulator

- Selective S1P1R modulator
- Differentiated on key parameters
- Demonstrated pharmacodynamic activity in Phase 1 trial
- Pursuing clinical development plan in both treatment-naïve and biologic-experienced patients



Clinically-Validated Target

- S1P1R modulators approved for MS and UC with clinical trials ongoing in other indications
- BMS' ozanimod approved for UC in May 2021



Large Addressable Market

 Ulcerative colitis is lead indication totaling up to \$7B in worldwide revenue



VTX002 Differentiates on Multiple Key Parameters vs. Competitors



Potential for Differentiated Clinical Profile in UC Patients

Sustained lymphocyte reduction up to 65% across multiple doses in MAD trial



Safety Profile

No SAEs, elevated LFTs, abnormal PFTs or macular edema



No Drug-Drug Interactions

No CYP inhibition; no food effect; favorable profile for patients with co-morbidities



Fast Onset of Action Faster Lymphocyte Recovery

No long-acting circulating metabolites Optimal half life (t~20h)



Ability to Dose Titrate

Potential to avoid first-dose cardiac monitoring in label



Peripherally Restricted

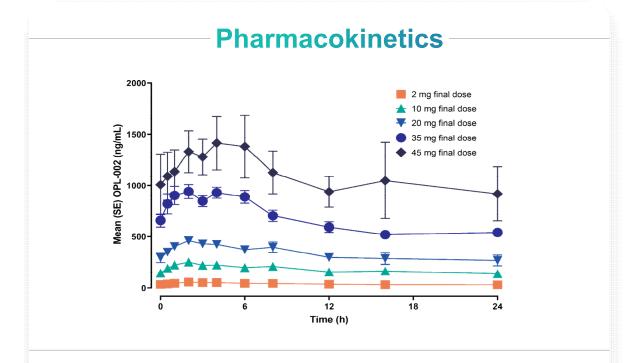
Very low CNS penetration; not a repurposed MS drug; potential to avoid macular edema

Notes: SAE=significant adverse event; MAD=multiple ascending dose

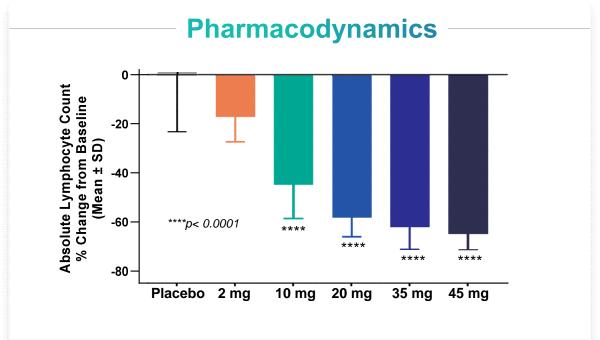


Phase 1 MAD Results: Dose-Dependent Exposure and Lymphocyte Reduction

Absolute lymphocyte count (ALC) reductions of 40-50% correlated with clinical efficacy observed in UC*



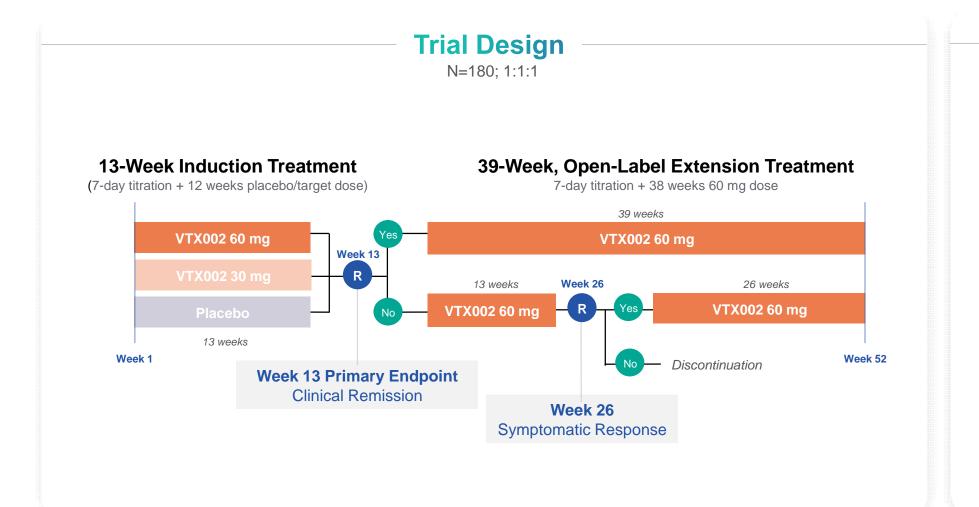
- $T_{1/2}$ of ~20 hours
- Dose-proportionate exposure after single and multiple doses of VTX002 with steady-state reached after 4 to 7 days of target-dose exposure



• Demonstrated consistent, sustained reduction of lymphocytes up to 65% across multiple dose groups



Phase 2 Trial in Moderate-to-Severe Ulcerative Colitis Patients



— Key — Takeaways

Powered for primary endpoint of clinical remission

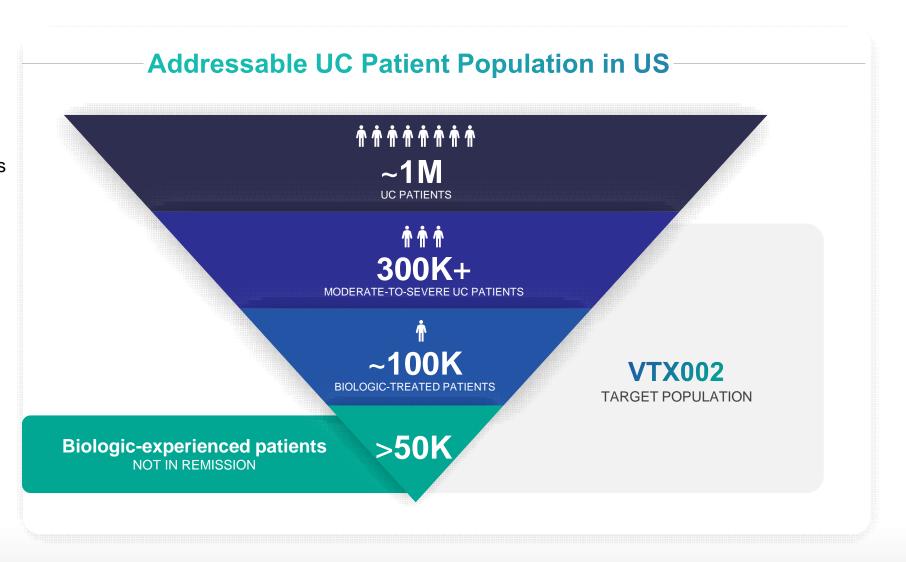
Trial may serve as the first of two pivotal trials required for registration

Note: Phase 2 tablet doses of 30mg and 60mg provide comparable VTX002 exposure as Phase 1 suspension doses of 20mg and 40mg, respectively

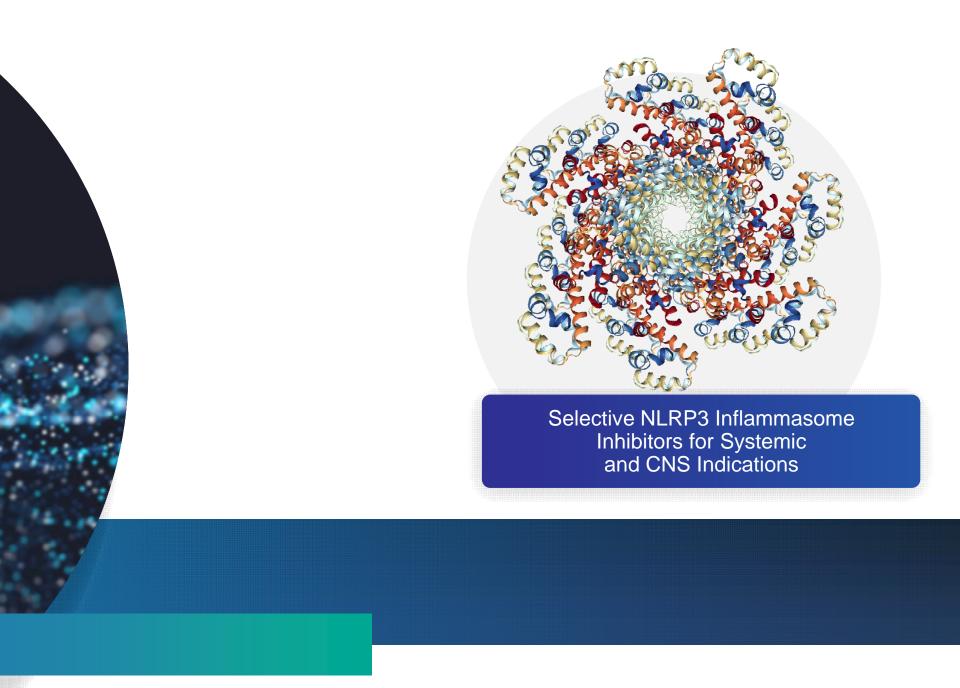


Underpenetrated Market for Biologic Refractory Patients

- Existing agents leave room for new treatments
- Novel oral agents may expand penetrance of treated moderate-tosevere UC population beyond current ~25-30%
- S1P well positioned to emerge as leading oral therapeutic class based on its attractive class efficacy/safety profile









Rationale for Targeting the NLRP3 Inflammasome

NLRP3 inflammasome inhibitors target IL-1 β , a key driver of inflammatory disease



- The NLRP3 inflammasome can become overactive in the presence of persistent tissue damage or crystal deposits
- Inflammasome activation results in release of IL-1β & IL-18 recruiting neutrophils and driving Th17 response
- This leads to pyroptosis and further tissue damage



Genetic evidence

 Gain-of-function mutations in the NLRP3 gene, associated with certain severe orphan inflammatory diseases, are classified as cyropyrin-associated periodic syndromes (CAPS)



Clinical validation of downstream target

- IL-1β signaling, downstream of inflammasome activation, is a clinically-validated, antiinflammatory target with biologics
- Ilaris® (\$873M sales in 2020) approved for CAPS and other orphan periodic fever syndromes



NLRP3 Inhibitor Program Summary



Peripheral NLRP3 Inhibitor: VTX2735

- Selective NLRP3 inhibitor
- Well tolerated in GLP safety and tox assessment
- Phase 1 ongoing, expected to complete dosing in H1 2022
- High oral bioavailability in non-clinical PK studies
- PD activity demonstrated in animal models



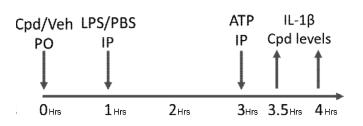
CNS NLRP3 Inhibitor

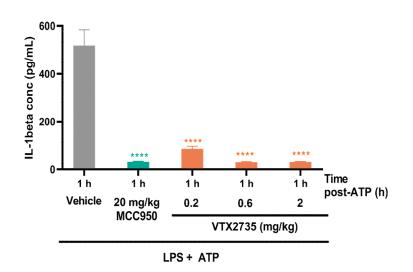
- Selective compounds generated with high CNS bioavailability
- Novel and proprietary lead series
- Plan to enter IND enabling studies 2022
- Potential to be first, truly CNS-directed NLRP3 inhibitor in clinic



VTX2735 is a Selective & Orally Bioavailable NLRP3 Inhibitor

Mouse Pharmacodynamic Assay



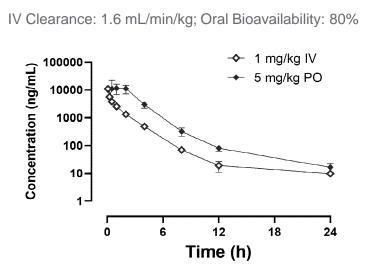


In Vitro Potency & Selectivity

II -1R

	IC ₅₀ (nM)	VTX2735
On Target	human monocytes	2
rarget	human whole blood	48
	AIM2	>10000
Off Target	NLRC4	>10000
	NF-kb	>10000





Key Takeaways

- Well-tolerated preclinically in IND-enabling GLP studies
- Oral bioavailability (80%) in NHP and dose-proportional exposure that predicts potential for wide safety margins based on PK/PD modeling

MCC950 is an NLRP3 inhibitor and a control compound used in in vitro and in vivo studies



VTX2735 Has Broad Activity Against Multiple NLRP3 Mutations

Potential for Differentiation in CAPS Setting*

What is CAPS?

An ultra-orphan auto-inflammatory disease caused by various mutations in NLRP3 and characterized by inappropriate release of IL-1β and symptoms of recurrent systemic inflammation

Key Takeaway

VTX2735 blood assay data from CAPS patients suggest inhibitory activity across several mutations: FCAS, MWS and NOMID subset of CAPS patients

		75% of all CAPS patients In North America					MOST SEVERE
CPD	CHALLENGE	FCAS1 L353P	FCAS2 (L353P)	FCAS3 (L353P)	FCAS4 A439V/G564R	FCAS.MWS E525K/V198M	NOMID F309Y
VTX2735	LPS	117	56	166	14	24	17
MCC950	LPS	>10K	>10K	>10K	1,264	>10K	>10K

*Source: UCSD (Dr. Hal Hoffman's lab); CAPS=Cryopyrin-Associated Periodic Syndromes



NLRP3 Program Clinical Development Plan



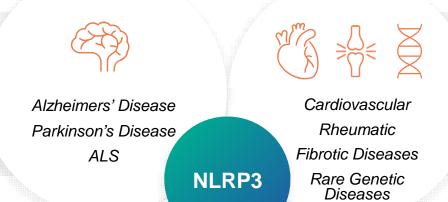




Our Comprehensive NLRP3 Portfolio Targets a Broad Range of Major Inflammatory Diseases

Neuroinflammatory Diseases

CNS-directed NLRP3 inhibitors are designed to treat a range of neurodegenerative disorders, such as Alzheimer's and Parkinson's disease



Systemic Diseases

Peripheral NLRP3 inhibitors are designed to treat cardiovascular, rheumatic, fibrotic and rare genetic diseases



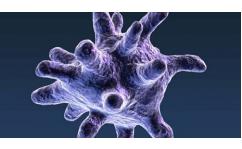
Fibrotic Lung Disease Liver Disease Skin Diseases

Tissue-Specific Diseases

Tissue-specific NLRP3 inhibitors are designed to treat conditions associated with site-specific inflammation, such as IBD, pulmonary and dermatologic diseases

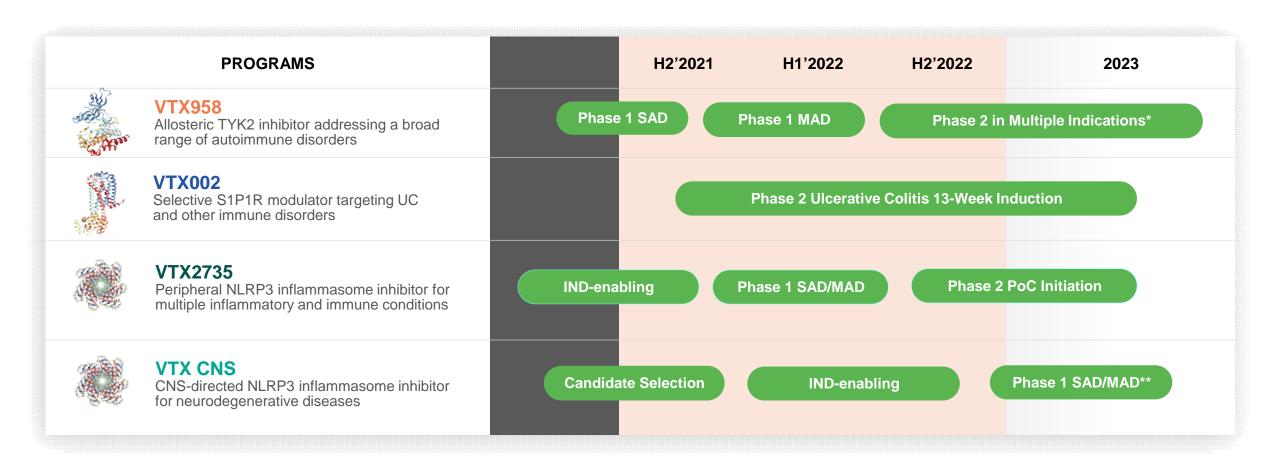


Projected Pipeline Catalysts and Summary





Projected Catalysts Over Next 24 Months



*Following completion of our Phase 1 trial, we intend to initiate Phase 2 PoC trials in psoriasis, psoriatic arthritis, Crohn's disease and potentially other indications

** Following regulatory acceptance of planned H2 2022 IND filing, we intend to initiate and conduct a Phase 1 SAD/MAD trial in healthy volunteers



Investment Highlights

Efficient & Productive Immunology Platform

Internal R&D engine
designed to generate
candidates to address
autoimmune and
inflammatory diseases with
high unmet need

100% commercial rights to entire portfolio; long patent life for all product candidates

Potentially Differentiated Medicines

Multiple selective, oral, small molecule product candidate portfolio:

- VTX958: allosteric TYK2 inhibitor for multiple autoimmune indications
- VTX002: peripherallyrestricted S1P1R modulator for ulcerative colitis
- VTX2735: a peripheral NLRP3 inhibitor for multiple autoimmune indications, and CNS-targeted NLRP3 inhibitors

Target Major Inflammatory & Immunology Disease Markets

Our portfolio can address I&I markets, such as psoriasis, IBD, and other indications

Opportunity to disrupt existing markets dominated by biologics with varying degrees of efficacy and safety in order to:

- ✓ Capture refractory patients
- Expand market share of moderate-to-severe patient populations with patient-friendly oral therapy

Capital-Efficient Business Model

Over \$339 million raised from dedicated biotech investors

Cash balance of \$142M as of September 30, 2021*



