



# Reinventing Medicine with Protein Degradation

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August 2024

 KYMERA

# Forward Looking Statements

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995 and other federal securities laws. These statements include, but are not limited to, implied and express statements about our strategy, business plans and objectives for our programs; Sanofi's intent to expand the Phase 2 clinical trials of KT-474/SAR-444656, plans and timelines for the preclinical and clinical development of our product candidates, including the therapeutic potential, clinical benefits and safety profiles of such product candidates; expectations regarding timing, success and data announcements of ongoing preclinical studies and clinical trials; our ability to initiate new clinical programs, including plans to submit investigational new drug (IND) applications; the initiation, timing, progress and results of our current and future preclinical studies and clinical trials of our current and prospective product candidates; our plans to develop and commercialize our current and any future product candidates and the implementation of our business model and strategic plans for our business, current and any future product candidates. All statements other than statements of historical facts contained in this presentation, including express or implied statements regarding our strategy, future financial condition, expected cash runway into the first half of 2027, future operations, projected costs, prospects, plans, objectives of management and expected market growth, are forward-looking statements. In some cases, you can identify forward-looking statements by terminology such as "anticipate," "assume," "believe," "could," "estimate," "expect," "goal," "intend," "may," "milestones," "objective," "plan," "predict," "potential," "seek," "should," "target," "will," "would" and other similar expressions that are predictions of or indicate future events and future trends, or the negative of these terms or other comparable terminology. We may not actually achieve the plans, intentions or expectations disclosed in our forward-looking statements, and you should not place undue reliance on our forward-looking statements. You should not rely upon forward-looking statements as predictions of future events and actual results or events could differ materially from the plans, intentions and expectations disclosed herein.

Any forward-looking statements either represent or are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and important factors that may cause actual events or results to differ materially from those expressed or implied by any forward-looking statements including, without limitation, risks associated with: the timing and anticipated results of our current and future preclinical studies and clinical trials, supply chain, strategy and future operations; the delay of any current and future preclinical studies or clinical trials or the development of our drug candidates; the risk that the results of prior preclinical studies and clinical trials may not be predictive of future results in connection with current or future preclinical studies and clinical trials, including those for KT-474/SAR-444656, KT-333, KT-253, KT-621 and KT-294; our ability to successfully demonstrate the safety and efficacy of our drug candidates; the timing and outcome of any interactions with regulatory authorities; obtaining, maintaining and protecting our intellectual property; our relationships with existing and future collaboration partners; the impacts of current macroeconomic and geopolitical events. In addition, any forward-looking statements represent Kymera's views only as of today and should not be relied upon as representing its views as of any subsequent date. Kymera explicitly disclaims any obligation to update any forward-looking statements, except as required by law. No representations or warranties (expressed or implied) are made about the accuracy of any such forward-looking statements. As a result of these risks and others, including those set forth in our filings with the SEC, actual results could vary significantly from those anticipated in this presentation, and our financial condition and results of operations could be materially adversely affected.

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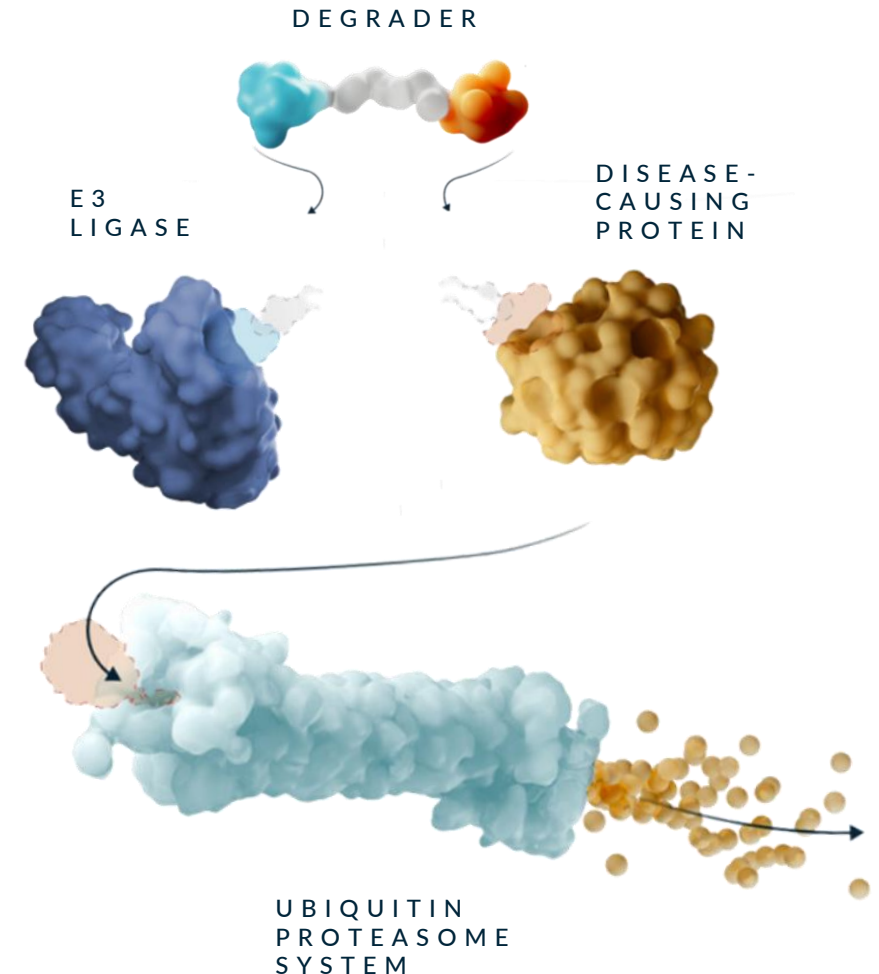
# Harnessing a Game-Changing, Novel Modality

## Kymera, a Leader in Targeted Protein Degradation

- Focused on unlocking high value, undrugged targets using TPD
- Highly productive and reproducible platform for discovery of innovative medicines
- Leading platform and pipeline IP, developed internally
- Well-capitalized with \$930<sup>1</sup> million in cash and expected runway into mid 2027, enabling expansion into areas with large clinical and commercial opportunities

## Industry Leading Execution

- Since founding Kymera in 2016:
  - Advanced four first-in-class programs to the clinic
  - Demonstrated clinical translation of degradation and safety
  - Achieved early clinical POC in I&I and oncology programs
- Extensive validation of target selection and molecular design
- Successful track record delivering multiple new drug mechanisms in clinic, expecting up to 10 novel INDs within first 10 years



<sup>1</sup>Unaudited, estimated cash as of August 21, 2024, inclusive of approximately \$246 million of net proceeds from the company's recently-closed equity offering.

# Target Selection Strategy

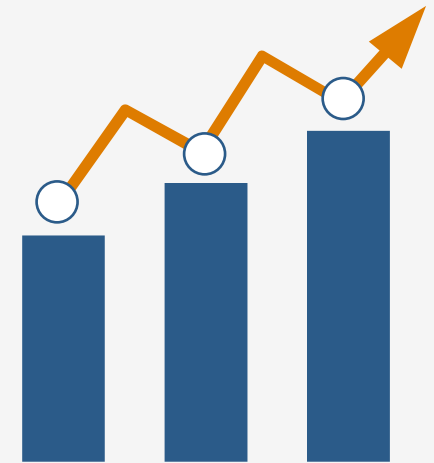
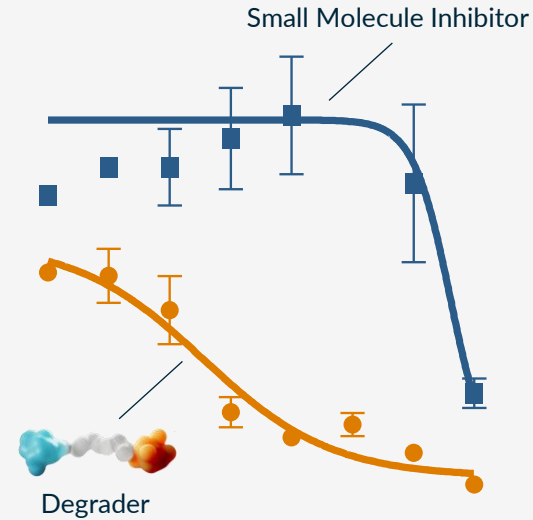
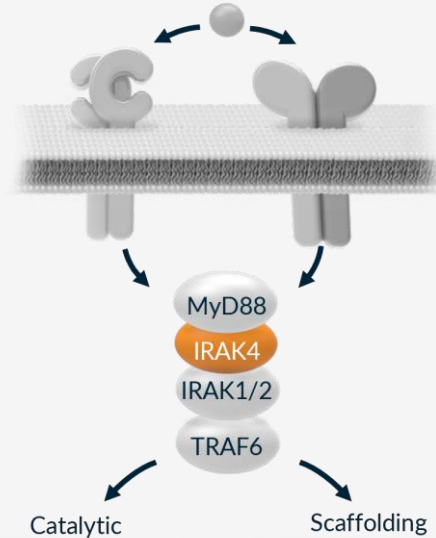
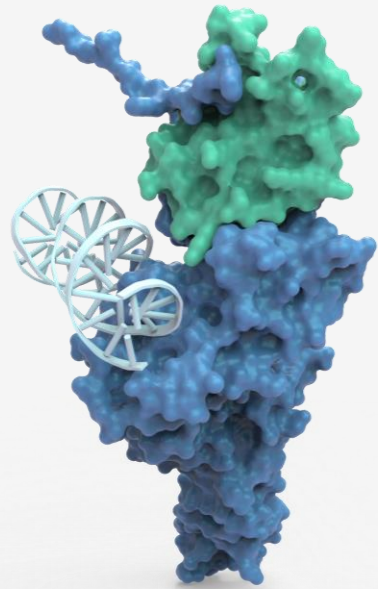
Focus on First- or Best-in-Class Opportunities

Undrugged or Inadequately Drugged targets

Strong Genetic/Pathway Validation

Clear Path to Early Clinical Differentiation

Large Clinical/Commercial Opportunities



TRANSCRIPTION  
FACTORS &  
SCAFFOLDING PROTEINS

APPROVED DRUGS IN  
SAME PATHWAY

SUPERIORITY VS  
PATHWAY DRUGS

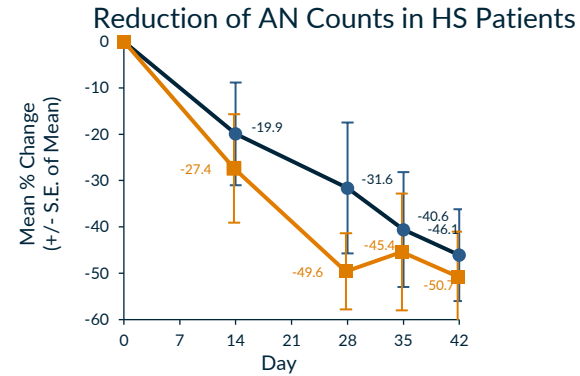
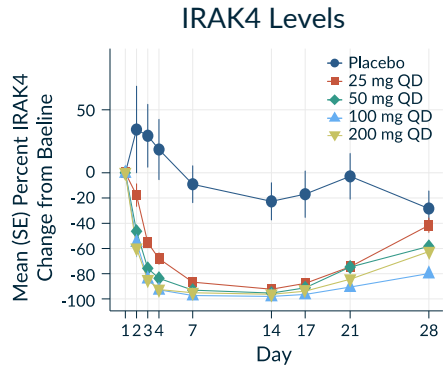
AREAS OF  
SIGNIFICANT VALUE  
CREATION



# Demonstrating Reproducible and Scalable Clinical Innovation

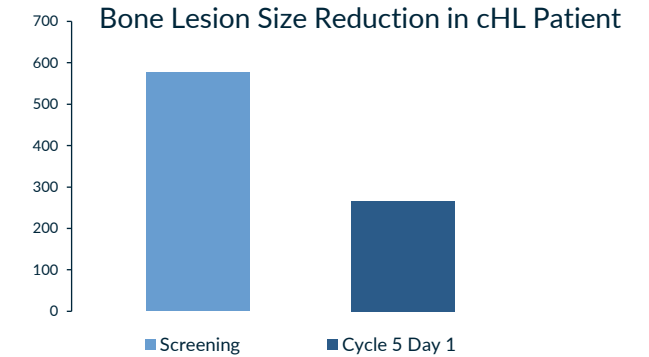
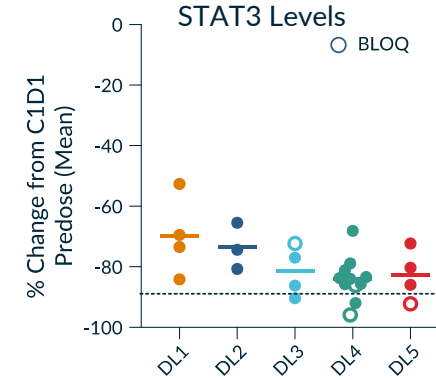
**IRAK4  
KT-474**

**IRAK4 Degradation leads to Early POC  
in HS and AD**



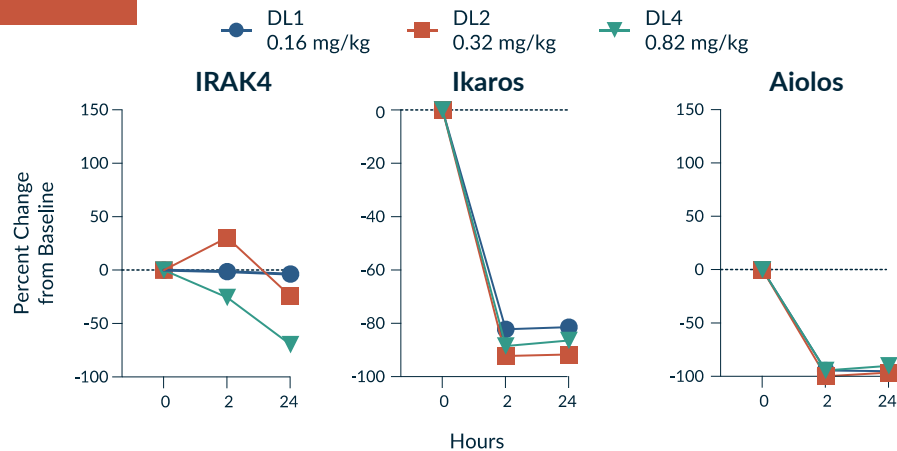
**STAT3 Degradation Leads to Major Response  
in cHL Patient**

**STAT3  
KT-333**



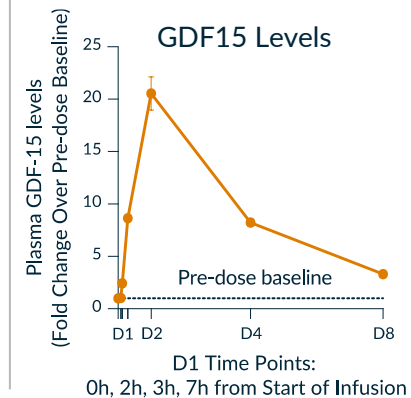
**IRAKIMID  
KT-413**

**Degradation of IRAK4 and Ikaros/Aiolos**

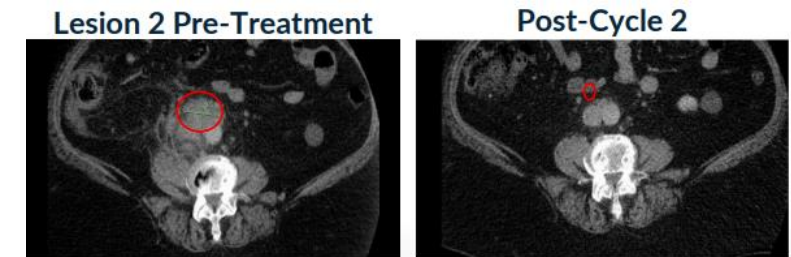


**MDM2 Degradation Leads to  
Major Response in MCC Patient with no Heme-tox**

**MDM2  
KT-253**

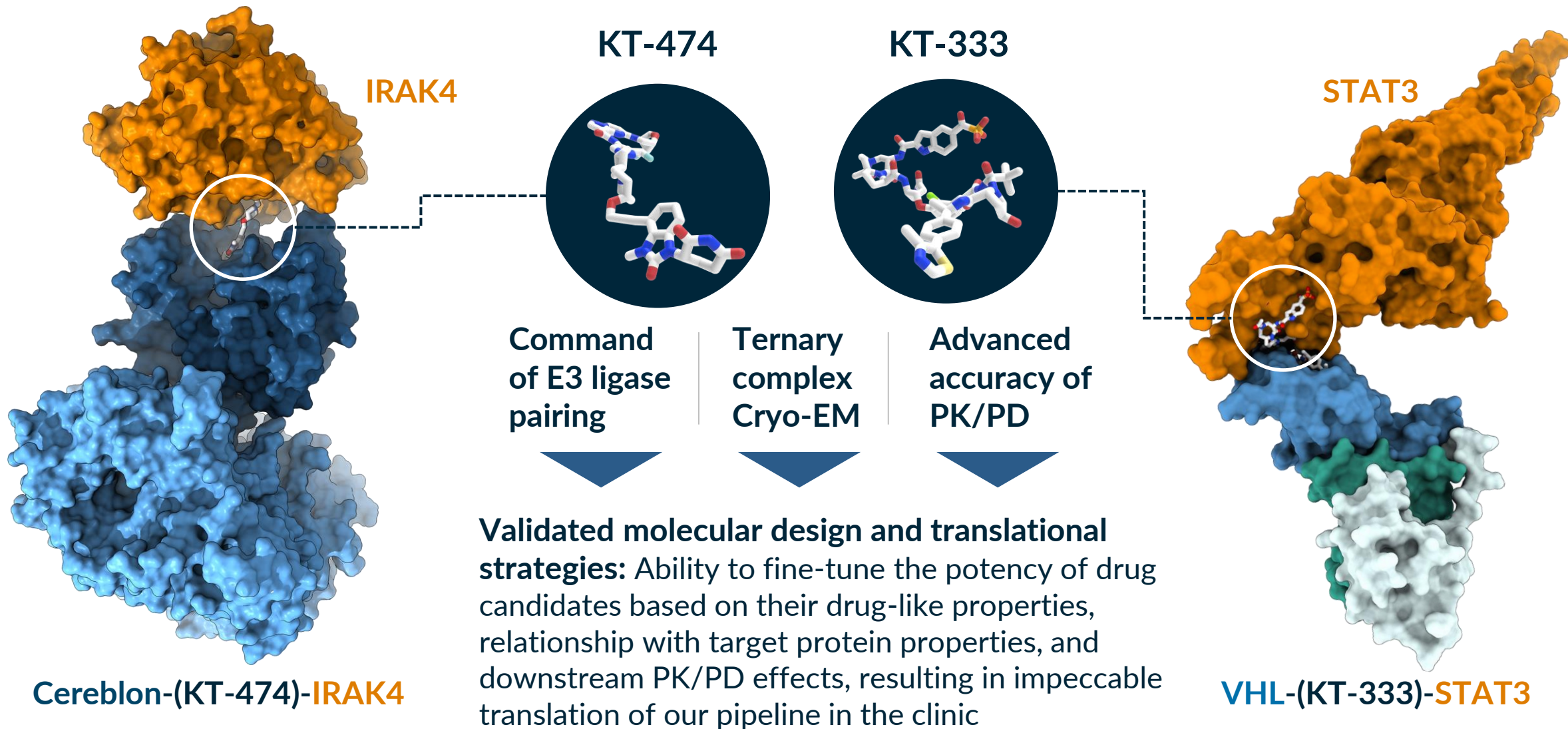


**Lesion Size Reduction in MCC Patient**



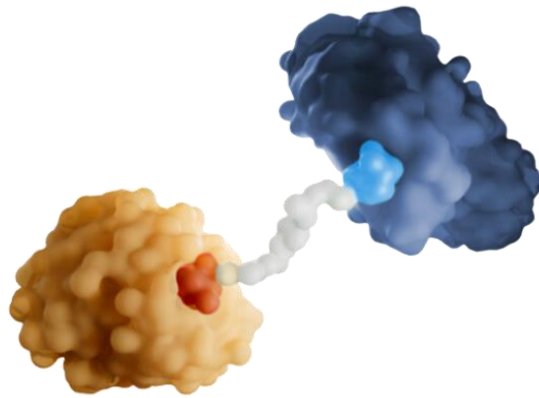
# Chemistry and Structural Biology Leadership

Ternary Complex Cryo-EM Structures Enable Design of Highly Specific and Potent Degraders

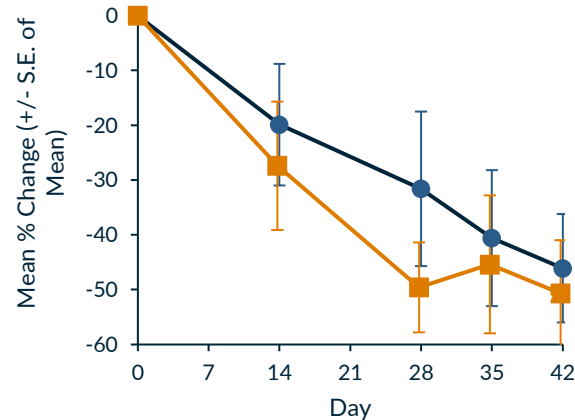


# Building a Global Medicines Company

Pioneering a new modality  
2016-2020



Demonstrating early POC  
2021-2023



Delivering a new generation of medicines  
2024-2028



Focused on undrugged targets within clinically validated pathways

Forged multiple strategic partnerships to forward integrate (>\$3B total value)

Developed industry leading capabilities in TPD and novel E3s

Advanced four drug candidates into clinic demonstrating clinical activity in oncology and immunology

Initiated two Phase 2 studies in significant immunology indications with Sanofi

Demonstrated potential for biological and clinical superiority of degrader vs. SMIs

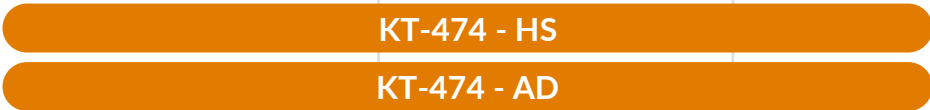

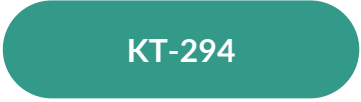
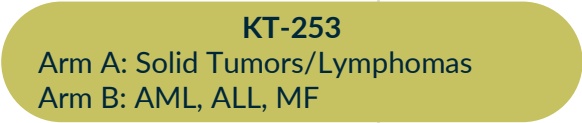
Focus on large clinical/commercial opportunities with oral degraders

Increase investments in I&I

Complete multiple POC studies in large indications and launch several registrational studies

Build towards a fully integrated global biotech

# Clear Line of Sight to Substantial Patient Impact and Value Creation

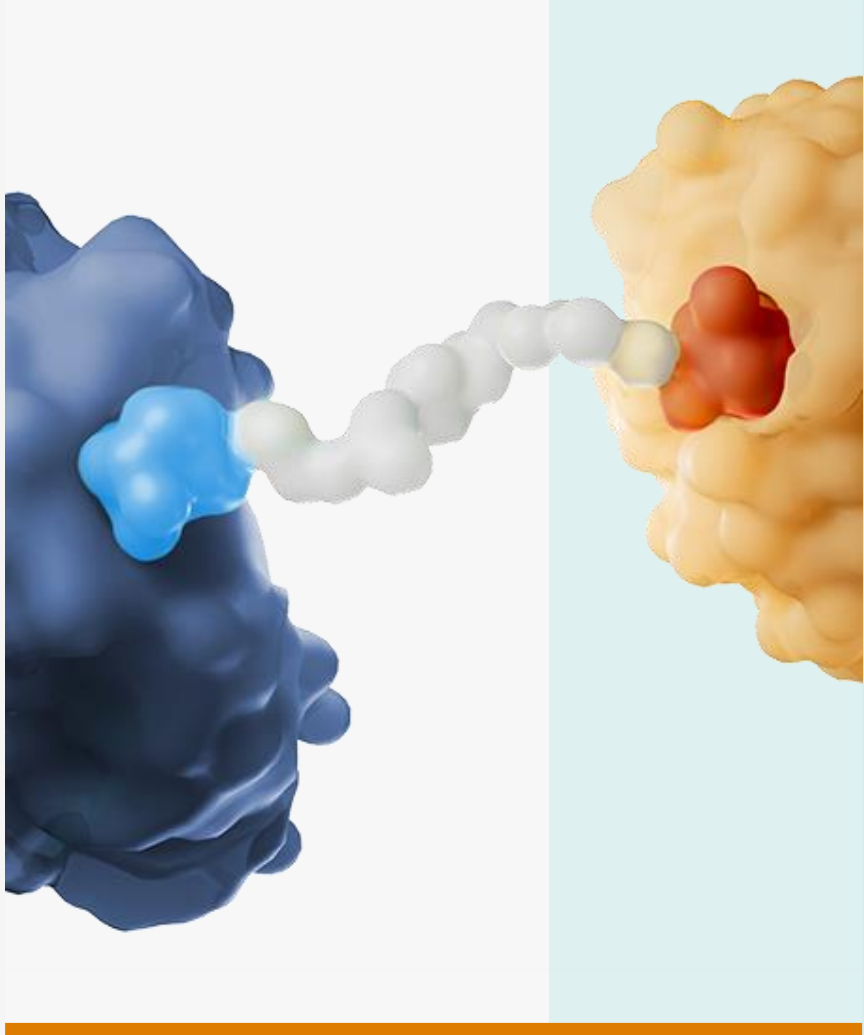
	Potential Indications	IND-enabling	Phase 1	Phase 2	Upcoming Milestones	Rights
<b>Immunology – Oral QD Small Molecule Degraders</b>						
<b>IRAK4<sup>1</sup></b>	HS, AD, RA, Asthma, IBD, others <sup>2</sup>	 KT-474 - HS KT-474 - AD			Phase 2 HS & AD: Expanding to accelerate development <sup>3</sup>	50/50 US <b>sanofi</b> KYMERA
<b>STAT6</b>	AD, Asthma, COPD, PN, CRSwNP, EoE, others	 KT-621			Phase 1 Start: 2H24	KYMERA
<b>TYK2</b>	Psoriasis, IBD, PsA, Lupus, others	 KT-294			Phase 1 Start: 1H25	KYMERA
<b>Oncology</b>						
<b>STAT3<sup>4</sup></b>	cHL, PTCL, LGL-L, CTCL, Solid Tumors	 KT-333 Arm A: Lymphomas, Solid Tumors Arm B: T-Cell Leukemias			Complete Recruitment & Phase 1 Data: 2H24	KYMERA
<b>MDM2</b>	Liquid & Solid Tumors	 KT-253 Arm A: Solid Tumors/Lymphomas Arm B: AML, ALL, MF			Complete Recruitment: 2H24 Followed by Phase 1 Data	KYMERA

<sup>1</sup>KT-474 (SAR444656) partnered with Sanofi, with Kymera option to participate in the development and commercialization, and 50/50 profit split, in the United States. Double digit tiered royalties in ROW.

<sup>2</sup>Current indications: HS and AD. Other diseases shown, where IL-1R/TLR pathway has been implicated in pathogenesis, are additional potential opportunities.

<sup>3</sup>Trial designs and timing for the expanded Phase 2 completion dates and data readouts to be updated once Sanofi completes ongoing expansion-enabling activities.

<sup>4</sup>Assessment of STAT3 I/I opportunity is ongoing.



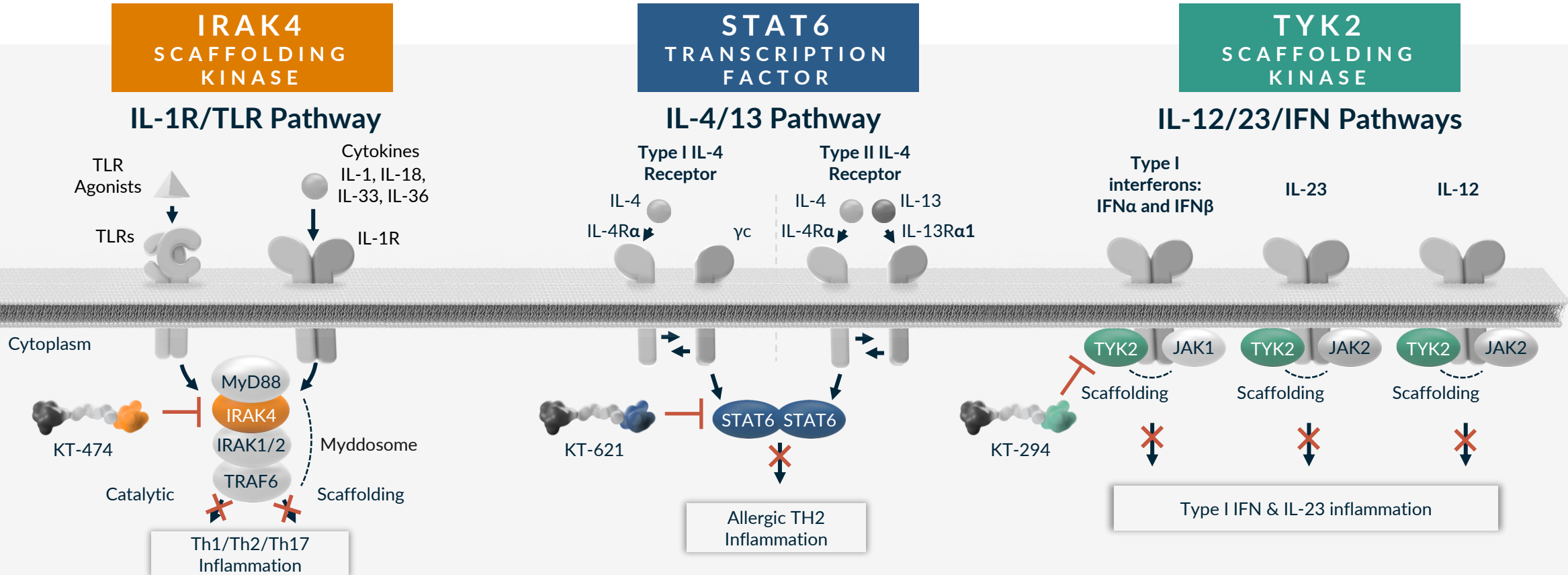
# Kymera's Immunology Pipeline

IRAK4, STAT6, TYK2



# Kymera Immunology Oral Degradable Portfolio

## Complementary, First-in-class Mechanisms

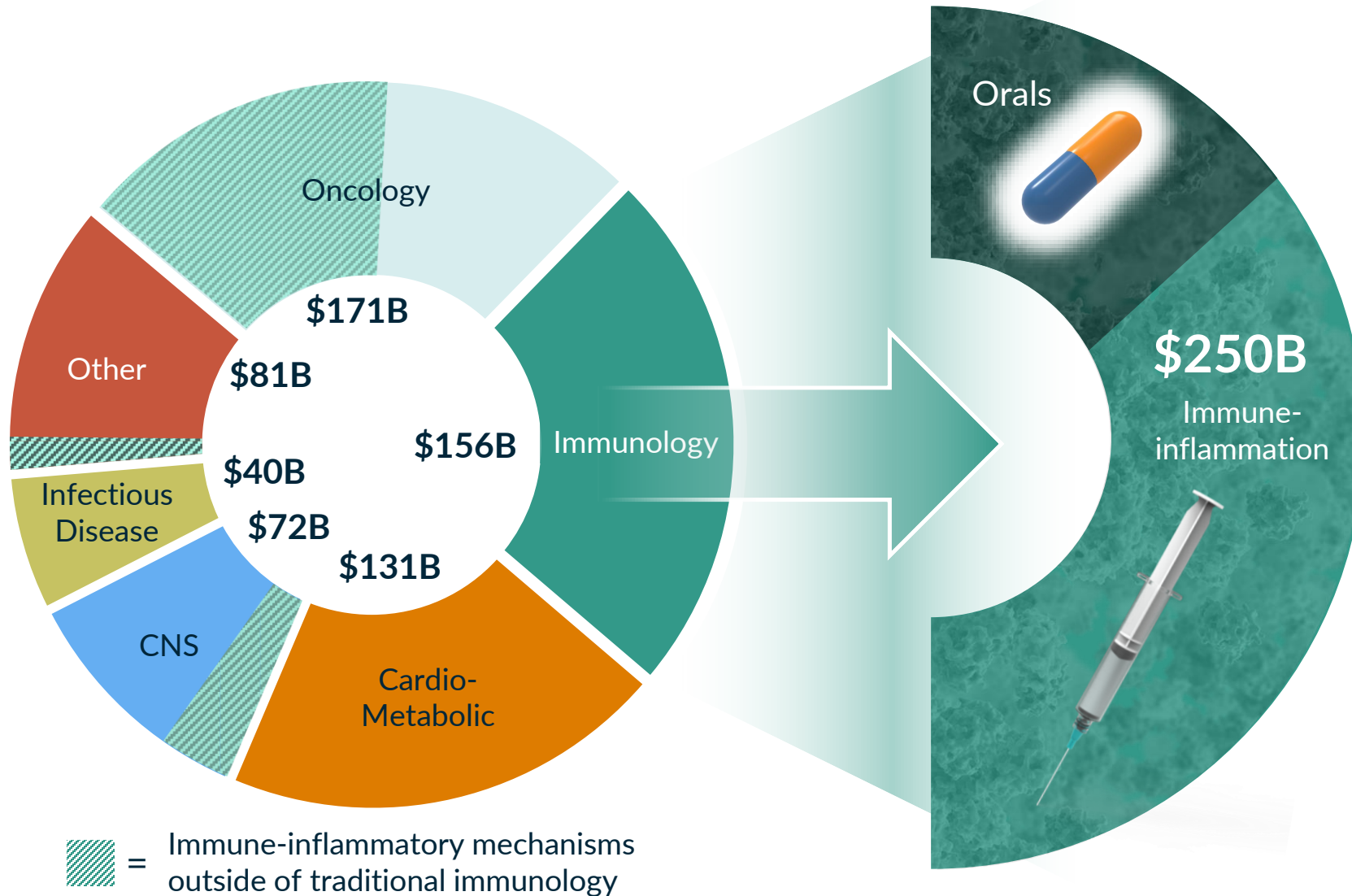


**IRAK4** is master regulator of innate immunity with scaffolding and kinase functions

**STAT6** is the only specific transcription factor responsible for **IL-4/13** signaling

**TYK2** is a JAK family scaffolding kinase required for **Type I IFN, IL-12 and IL-23** cytokine signaling

# The Opportunity in Immunology



Immune-inflammation is a **\$250B WW market<sup>1</sup>** spanning multiple therapeutic areas.

Injectables dominate, comprising >75% of the established market.

<sup>1</sup>Revenues from Top 1,000 worldwide brands by revenue; Source: GlobalData; 2022 Non-Covid, Non-Vaccine Rx Market

# Why Small Molecule Oral Degraders in Immunology

 **Cosentyx**<sup>®</sup>  
(secukinumab)

 **Stelara**<sup>®</sup>  
(ustekinumab)

**DUPIXENT**<sup>®</sup>  
(dupilumab) Injection



Key pathways/cytokines validated as drivers of many diseases in I&I

Biologics blocking these pathways/cytokines have revolutionized treatment

Biologics are injected, can be inconvenient for patients and costly to manufacture

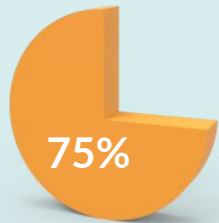
Traditional small molecule inhibitors insufficiently block these pathways, limiting efficacy

## Oral Degraders Can Offer Biologic-like Activity in a Pill

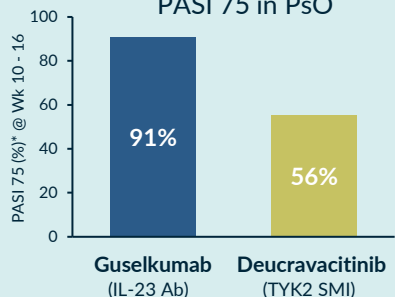


Degraders can provide comparable pathway inhibition to biologics, convenience of oral dosing, ease of manufacturing and potentially access broader populations

Patients on Biologics that Would Switch to Orals<sup>1</sup>



IL-23 Biologics vs TYK2 SMI<sup>2</sup>  
PASI 75 in PsO



# Revolutionizing Immunology with Small Molecule Oral Degraders

## IRAK4 (KT-474) SCAFFOLDING KINASE

## STAT6 (KT-621) TRANSCRIPTION FACTOR

## TYK2 (KT-294) SCAFFOLDING KINASE

<b>Status</b>	<ul style="list-style-type: none"> <li>Phase 2 Trials in HS and AD with Sanofi</li> </ul>	<ul style="list-style-type: none"> <li>IND-Enabling</li> </ul>	<ul style="list-style-type: none"> <li>IND-Enabling</li> </ul>
<b>Potential Indications</b>	<ul style="list-style-type: none"> <li>HS, AD, RA, Asthma, COPD, IBD, others<sup>1</sup></li> </ul>	<ul style="list-style-type: none"> <li>AD, Asthma, COPD, PN, CRSwNP, EoE, others</li> </ul>	<ul style="list-style-type: none"> <li>PsO, IBD, PsA, Lupus, others</li> </ul>
<b>Next Milestone</b>	<ul style="list-style-type: none"> <li>Expanding Phase 2 studies to accelerate development<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>FIH: 2H 2024</li> </ul>	<ul style="list-style-type: none"> <li>FIH: 1H 2025</li> </ul>
<b>Opportunity</b>	<ul style="list-style-type: none"> <li>First-in-class broad anti-inflammatory oral degrader</li> </ul>	<ul style="list-style-type: none"> <li>Dupilumab-like activity in a pill</li> </ul>	<ul style="list-style-type: none"> <li>Biologic-like activity in a pill</li> </ul>
<b>Commercial Rights</b>	<ul style="list-style-type: none"> <li>Up to 50% US with Sanofi, tiered royalties in ROW<sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>Wholly owned</li> </ul>	<ul style="list-style-type: none"> <li>Wholly owned</li> </ul>

<sup>1</sup>Current indications; HS and AD. Other diseases shown, where IL-1R/TLR pathway has been implicated in pathogenesis, are additional potential opportunities;

<sup>2</sup>Trial designs and timing for the expanded Phase 2 completion dates and data readouts to be updated once Sanofi completes ongoing expansion-enabling activities;

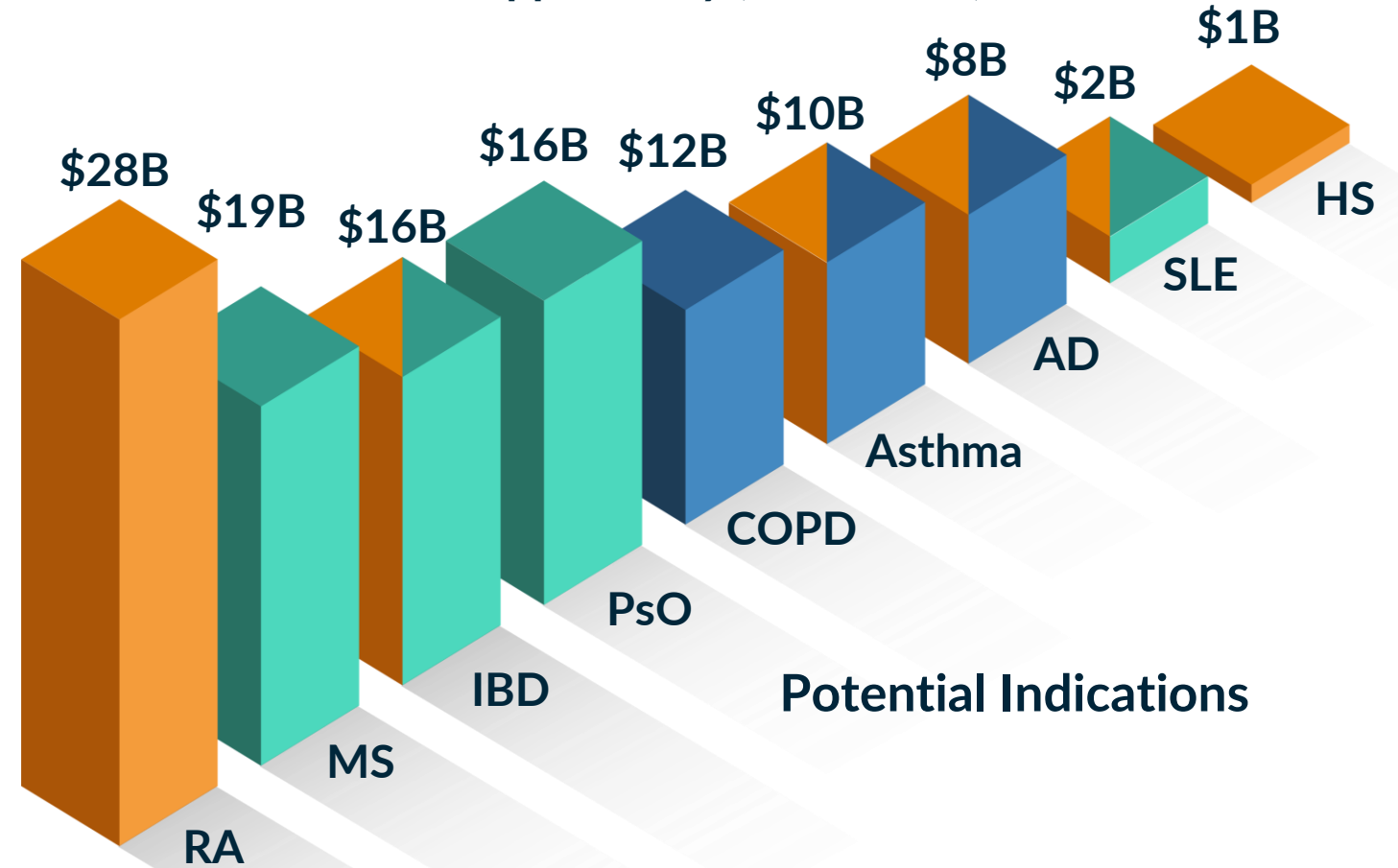
<sup>3</sup>KT-474 (SAR444656) partnered with Sanofi, with Kymera option to participate in the development and commercialization, and 50/50 profit split, in the United States. Double digit tiered royalties in ROW.

# Kymera Immunology Oral Degradator Portfolio

Complementary Mechanisms Each with Mega-blockbuster Potential

Market Opportunity (2022 Sales)

- **IRAK4<sup>1</sup>:** IL-1R/TLR pathway  
Th1/17/Th2 biology
- **STAT6:** IL-4/13 pathway  
Th2 biology
- **TYK2:** IL-23/IFN pathway



Potential Indications

GlobalData, focused only on large markets based on 2022 sales of approved drugs

<sup>1</sup>Current indications; HS and AD. Other diseases shown, where IL-1R/TLR pathway has been implicated in pathogenesis, are additional potential opportunities





# First-in-Class Oral IRAK4 Degradator Program

# IRAK4 Biology and Target Rationale

## Target Rationale

- IRAK4 is an obligate node in IL-1R/TLR signaling, and its degradation is the only approach to fully block the pathway

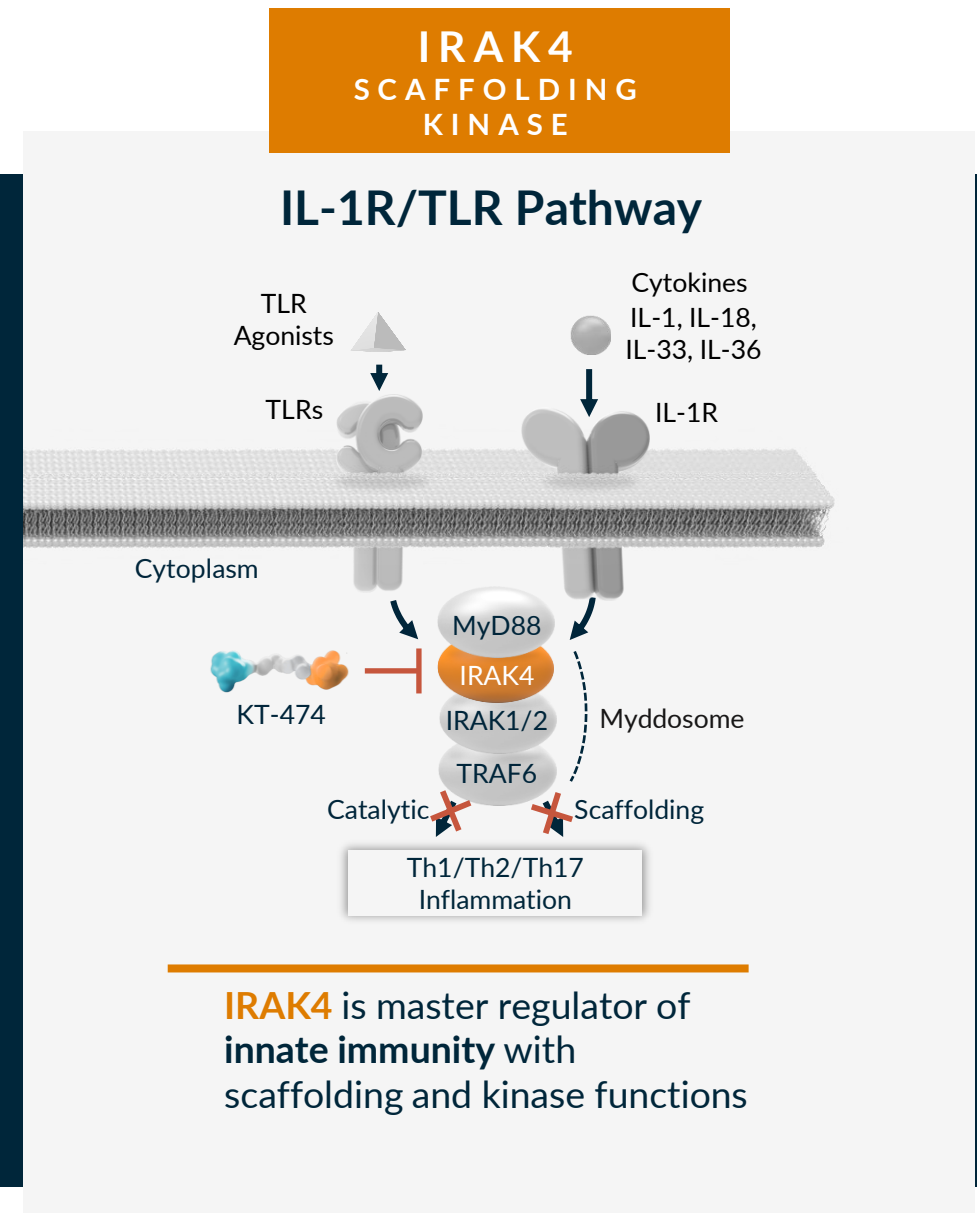
## Human Genetics

- Adult humans with IRAK4 null mutation are healthy

## Clinical Pathway Validation

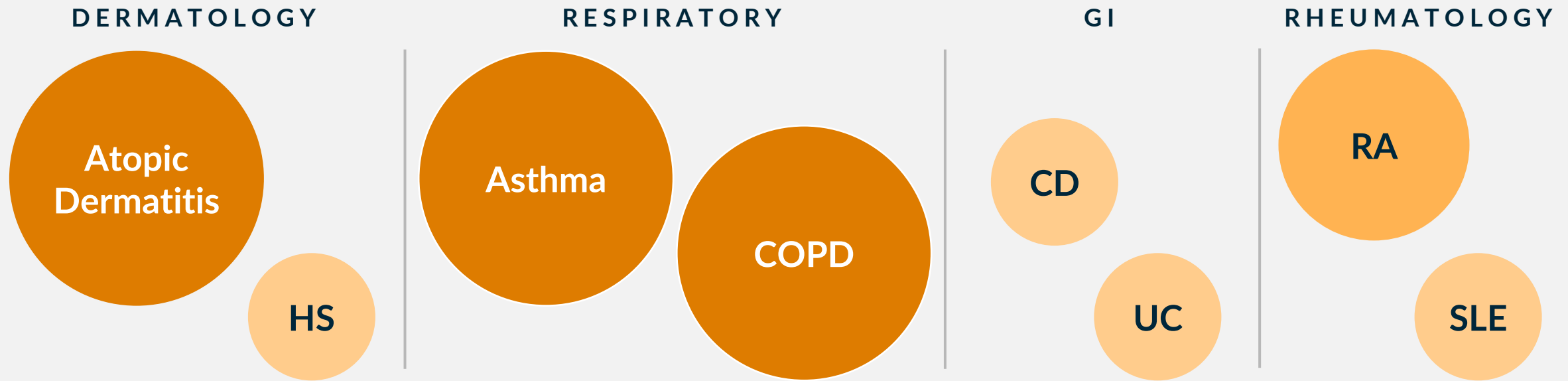
- IRAK4 degradation has the potential to achieve a broad, well-tolerated anti-inflammatory effect
- Multiple development opportunities in immune-inflammatory diseases which signal through MyD88/IRAK4 have been validated<sup>1</sup>:
  - IL-1 $\alpha$ /IL-1 $\beta$  : RA, CAPS, HS, AD, Gout
  - IL-18: AD, Macrophage Activation Syndrome
  - IL-36: Generalized Pustular Psoriasis, AD
  - IL-33: Asthma
  - IRAK4 SMI: RA

Adapted from West NT. Front Immunol 2019



<sup>1</sup>Current indications; HS and AD. Other diseases shown, where IL-1R/TLR pathway has been implicated in pathogenesis, are additional potential opportunities

# IL-1R/TLR Pathway Potential Impact Across Multiple Immune-Inflammatory Diseases



Total Potential Patient Impact<sup>1</sup>: **>150M patients**

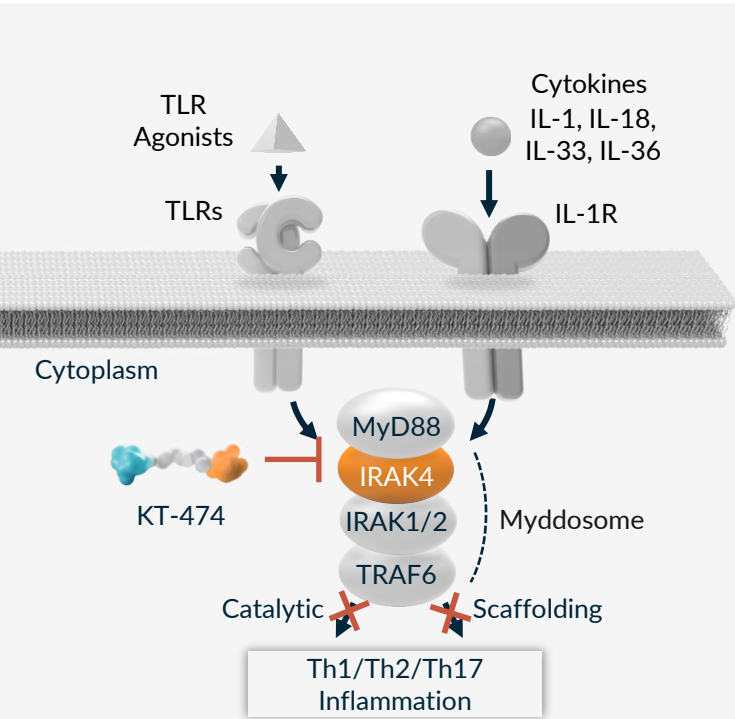
Numerous indication opportunities across multiple therapeutic areas validated by sub-optimal pathway inhibitors

IRAK4 degradation leading to full pathway inhibition has the potential to deliver superior profile to upstream biologics

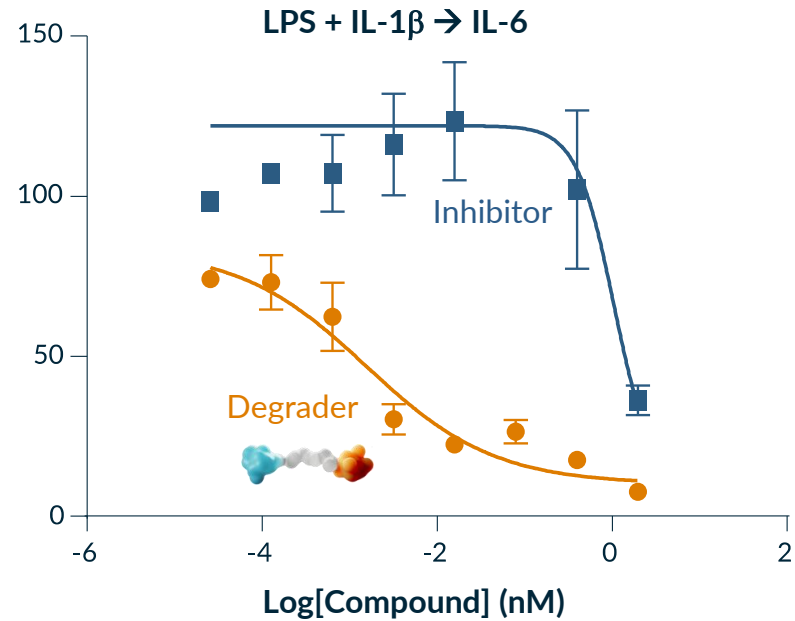
Oral degrader medicines offer opportunity to reach broader patient populations

<sup>1</sup>GlobalData (2022 diagnosed prevalent patient population for US/EU5/JP)

# IRAK4 Degradation Advantage



## Only Degradation Can Fully Block Inflammation



## Preclinical Data (Kymera IRAK4 Background)

- IRAK4 KO is able to block TLR activation unlike the kinase dead rescue
- IRAK4 **scaffolding function** is critical in Myddosome formation and pathway signaling
- IRAK4 degradation, but not kinase inhibition, can **block TLR induced NF- $\kappa$ B translocation** and **IL1R+TLR activation**
- IRAK4 degradation is superior to kinase inhibition at **blocking downstream phosphoproteome**
- IRAK4 degradation is superior to inhibition in a **variety of preclinical efficacy models**

IRAK4 caps the oligomer size of MYD88 to trigger myddosome formation

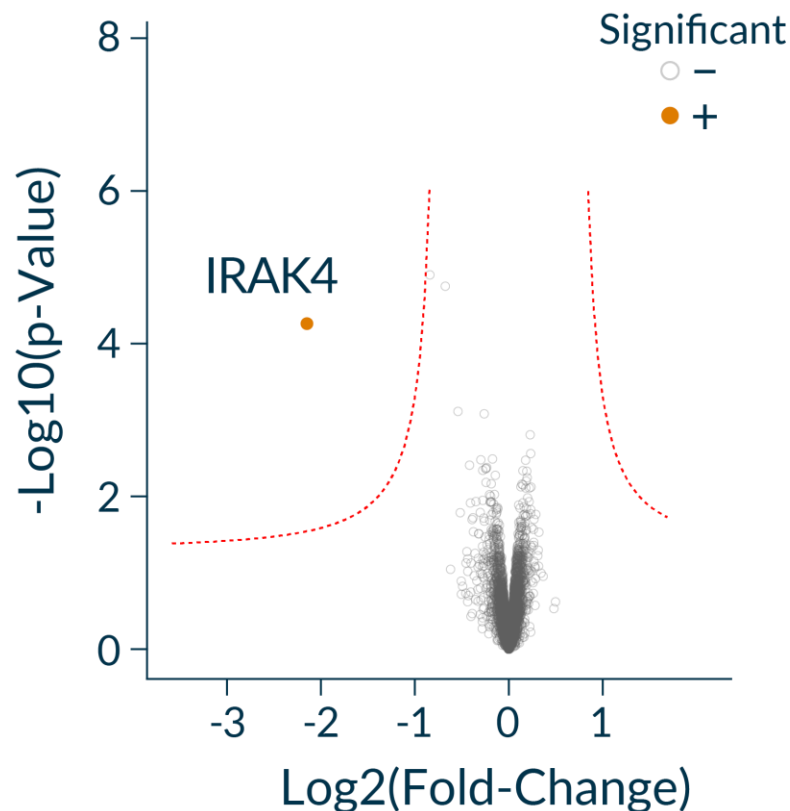
## Clinical Data (Nature Medicine\*)

- IRAK4 degradation **reduces signs and symptoms of HS and AD**, while IRAK4 SMI inactive in Phase 2 HS trial
- IRAK4 blocks inflammation in blood and skin of HS and AD patients

\*Ackerman, et al., Nature Medicine (2023).

# KT-474: Selective and Potent IRAK4 Degradator Active in Multiple Cell Types

## Selectivity in PBMC



KT-474 selectively degrades IRAK4 in human immune cells at concentration 10-fold above the  $DC_{90}$

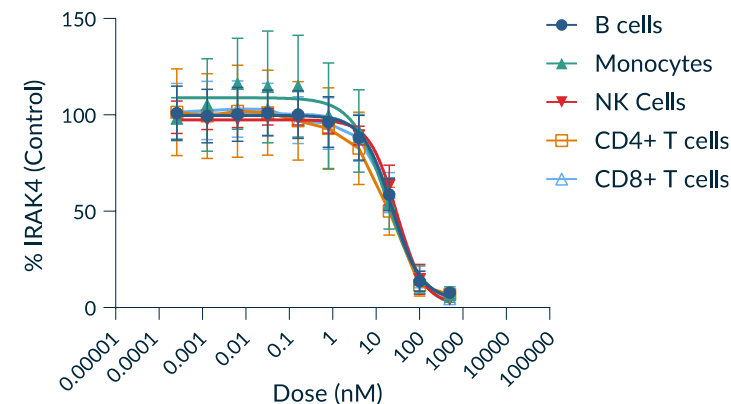
Potent degradation in PBMC subsets and skin cells including fibroblasts, with single-digit nM  $DC_{50}$

Associated with functional inhibition of TLR- and IL-1 $\beta$ -stimulated cytokine production

Comprehensive understanding of degradation kinetics across cell types to enable human translation

## Potency in Blood and Skin Cells

KT-474 Degradation Across Immune Cell Types



Cell type (Human)	Source	KT-474 $DC_{50}$ (nM)
Monocytes	Blood	2.6
B cells	Blood	2.7
CD4 T cells	Blood	1.5
CD8 T cells	Blood	1.5
NK cells	Blood	1.8
Fibroblasts	Skin	1.5
Keratinocytes	Skin	7.8



# Initial Clinical Focus for KT-474: Moderate to Severe HS and AD

## Hidradenitis Suppurativa (HS)

Chronic and debilitating skin disease with painful nodules, abscesses and draining fistulae/tunnels

Major QoL impact: Pain, itching, depression, social isolation



Many diagnosed in their 20s/30s; more common in females (~3:1); prevalence estimated to be up to 1-3% of population in US and EU

Lesions characterized by pleotropic inflammation with Th1/Th17 skewing; bacterial infection and tissue destruction leading to TLR activation; IL-1 and IL-36 production

Active agents approved or in development target TNF- $\alpha$ , IL-17 and JAK/STAT pathways

## Atopic Dermatitis (AD)

Chronic inflammatory skin disease with scaly, dry, erythematous lesions; intense itching/scratching, predisposition to infections

Major QoL impact: Itching, pain, sleep disturbance



Onset usually in early childhood; affects an estimated 98 million adults in US/EU5/JP<sup>1</sup>

Lesions characterized by pleotropic inflammation with Th2 skewing; bacterial infection and skin barrier breakdown leading to TLR activation; IL-33 and IL-1 production

Active agents approved or in development target IL-4/IL-13, JAK/STAT and OX40/OX40-L pathways

**KT-474 Opportunity:** Potential for broad anti-inflammatory effect, competitive efficacy vs. pathway biologics and convenience of once-daily oral dosing

<sup>1</sup>GlobalData – undiagnosed, all-age prevalence

# KT-474 Phase 1: Compelling Data and Early POC in HS and AD

## Healthy Volunteers (HV): SAD and MAD

- Evaluated safety, tolerability and pharmacokinetics in 105 healthy volunteers
  - SAD: Oral doses of 25-1600 mg
  - MAD: Escalating doses up to 200 mg were administered for 14 consecutive days
- Robust (>95%) and sustained IRAK4 degradation with single and multiple daily doses
- Broad inhibition of *ex vivo* TLR-mediated cytokine induction
- Generally well-tolerated across all dose groups



## HS and AD Patient Cohort

- Open label study in 21 patients with HS and AD
- Dose: 75 mg QD with food (equivalent exposure to 100 mg fasted), administered for 28 consecutive days
- Safety, PK and PD comparable to healthy volunteers
- Robust IRAK4 degradation in blood and skin with associated systemic anti-inflammatory effect in HS and AD patients
- Promising clinical activity observed in HS and AD

nature medicine



Article

<https://doi.org/10.1038/s41591-023-02635-7>

## IRAK4 degrader in hidradenitis suppurativa and atopic dermatitis: a phase 1 trial

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News & views

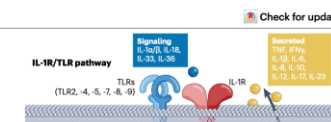
Targeted therapy

<https://doi.org/10.1038/s41591-023-02622-y>

## PROTACs reach clinical development in inflammatory skin disease

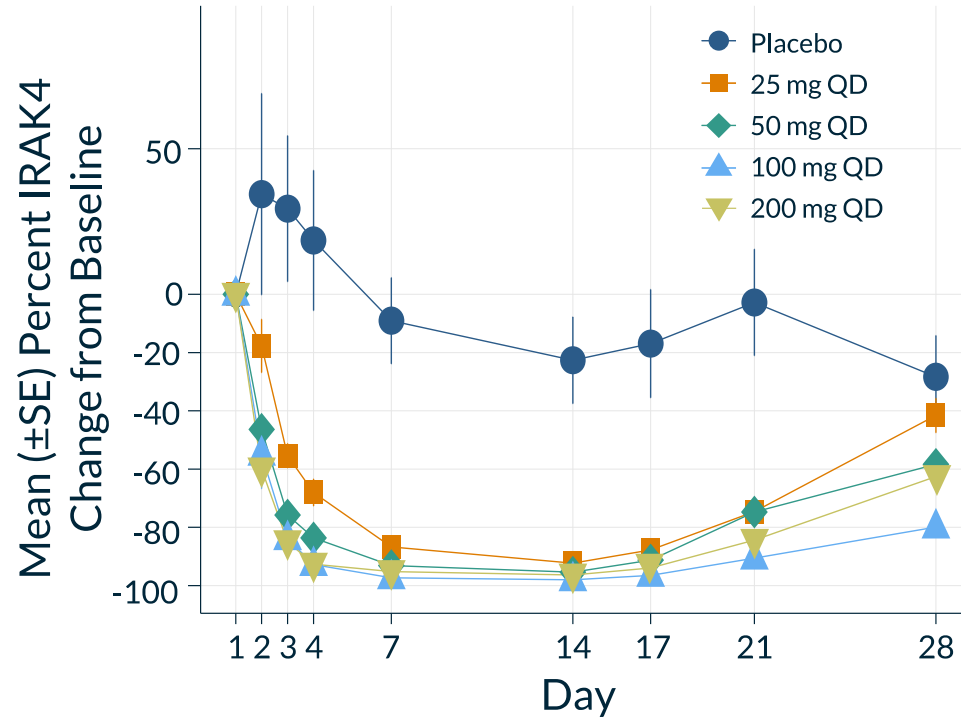
Fleur M. Ferguson

A phase 1 trial of an IRAK4-targeted protein degrader in patients with chronic inflammatory skin diseases hits an important milestone for the safe application of this drug class beyond oncology.

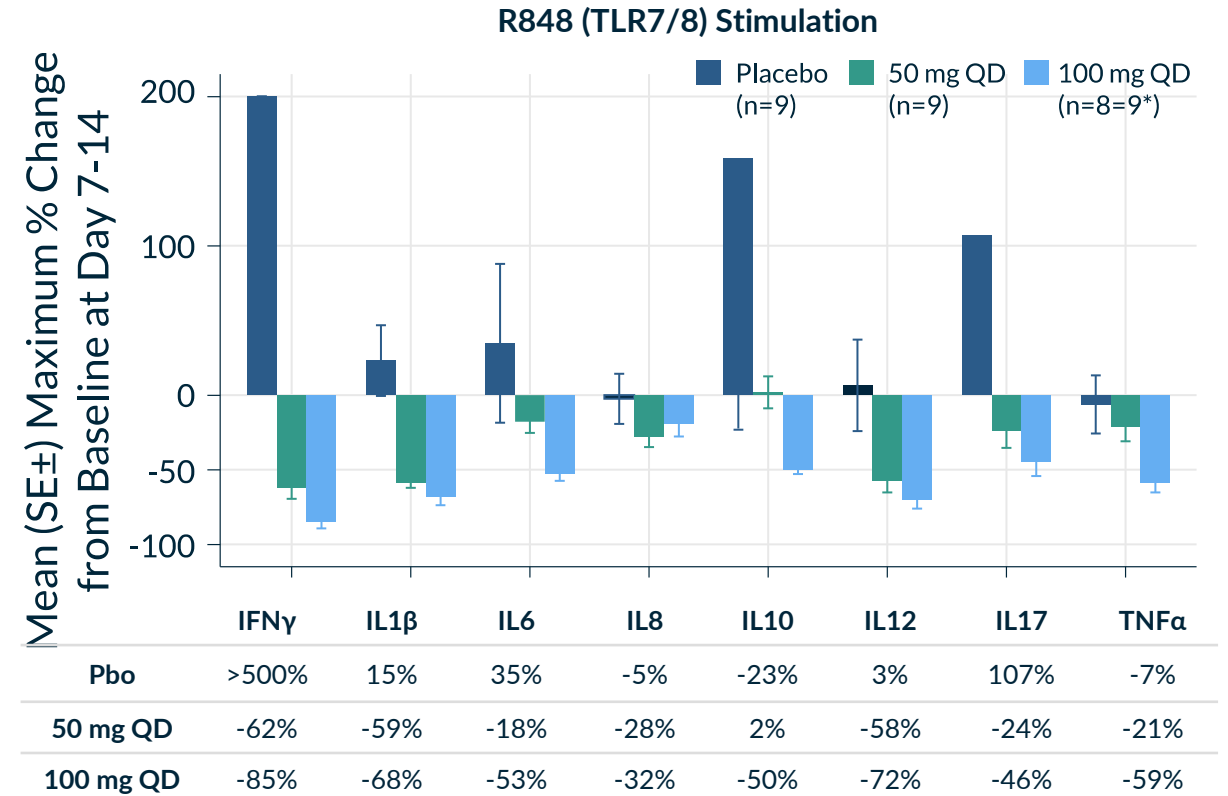


# Near-Complete Degradation and Broad Cytokine Impact in Healthy Volunteers

Mean % Reduction of IRAK4  
(Daily oral doses for 14 days)



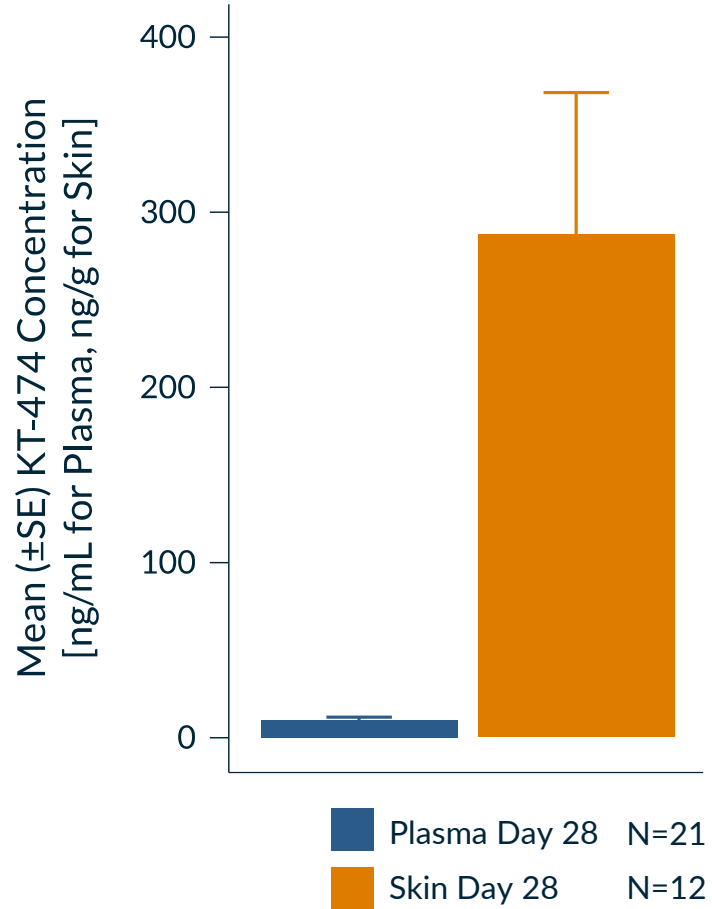
Ex Vivo Inhibition of 9 Disease-Relevant Cytokines, Day 7-14



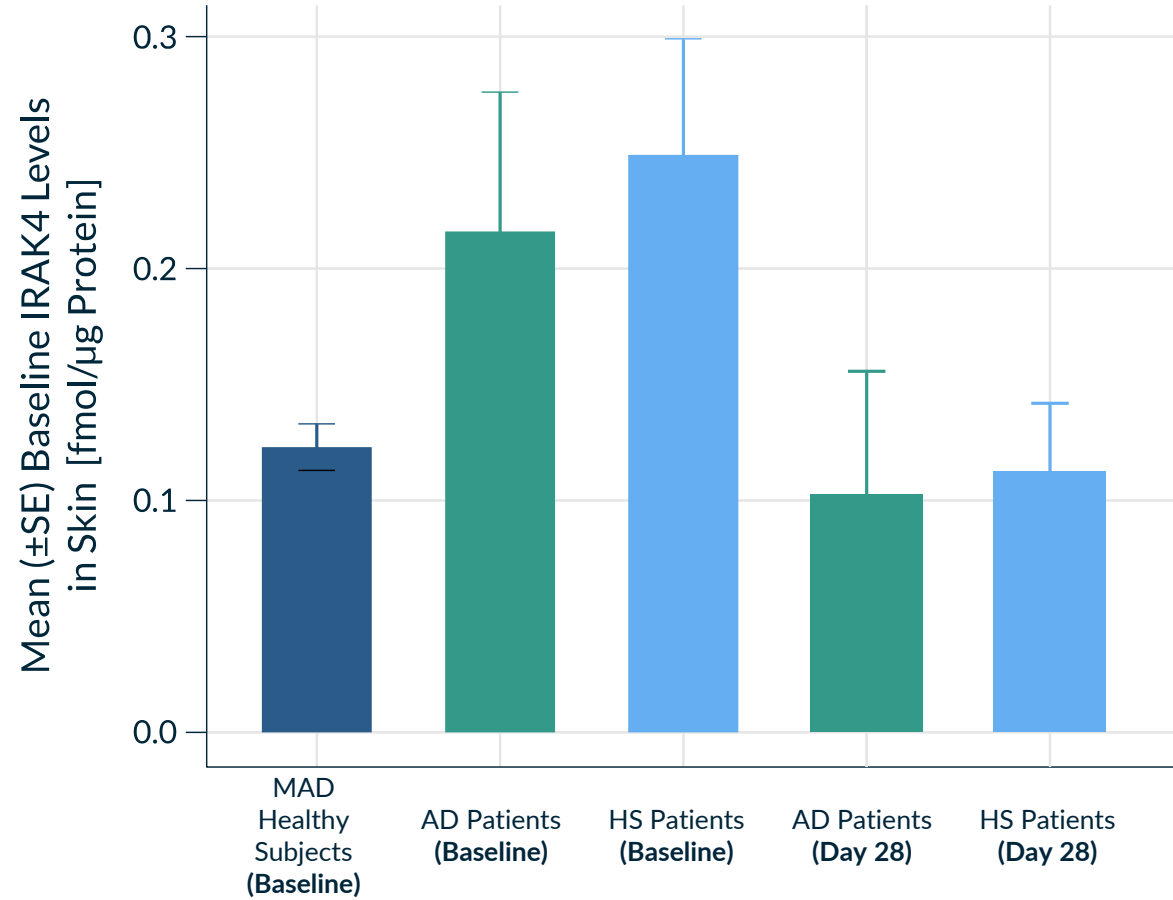
- High fidelity of PKPD translation from preclinical species to humans.
- Human efficacious concentrations ( $C_{trough}$  3 ng/mL) and doses (50-200 mg) were correctly predicted

# High Skin Exposure and Degradation in Skin of HS and AD Patients

## High KT-474 Exposure in HS and AD Patients Skin



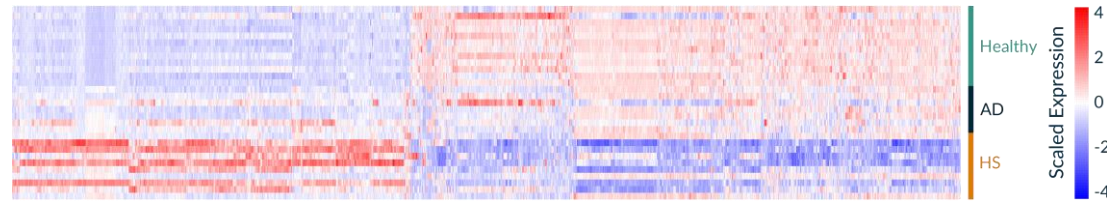
## Reduced IRAK4 in Skin Lesions of AD and HS Patients



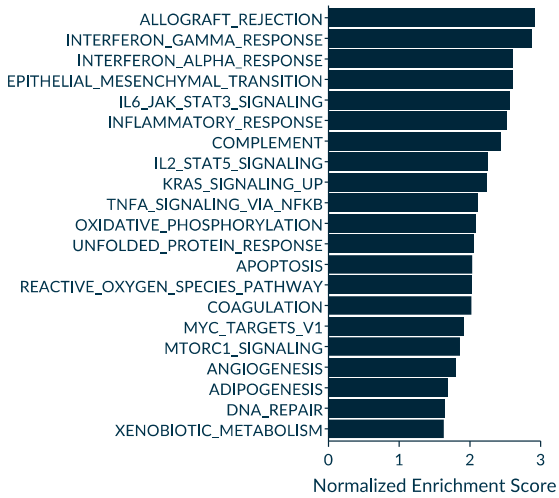
	MAD Healthy Subjects (Baseline)	AD Patients (Baseline)	HS Patients (Baseline)	AD Patients (Day 28)	HS Patients (Day 28)
N	46	7	11	6	9
Mean	0.12	0.22	0.24	0.1	0.11

# Upregulation of Multiple Inflammatory Pathways in HS and AD Skin Lesions and Impact of KT-474 Treatment

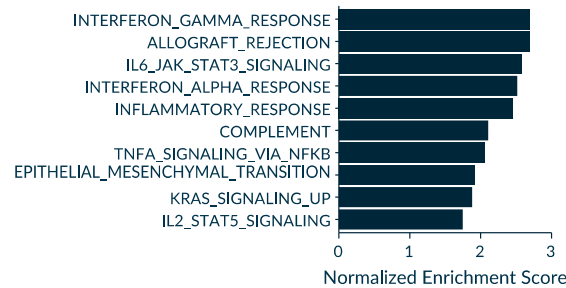
## Upregulation of Inflammatory Genes/Pathways in HS and AD



HS vs Healthy

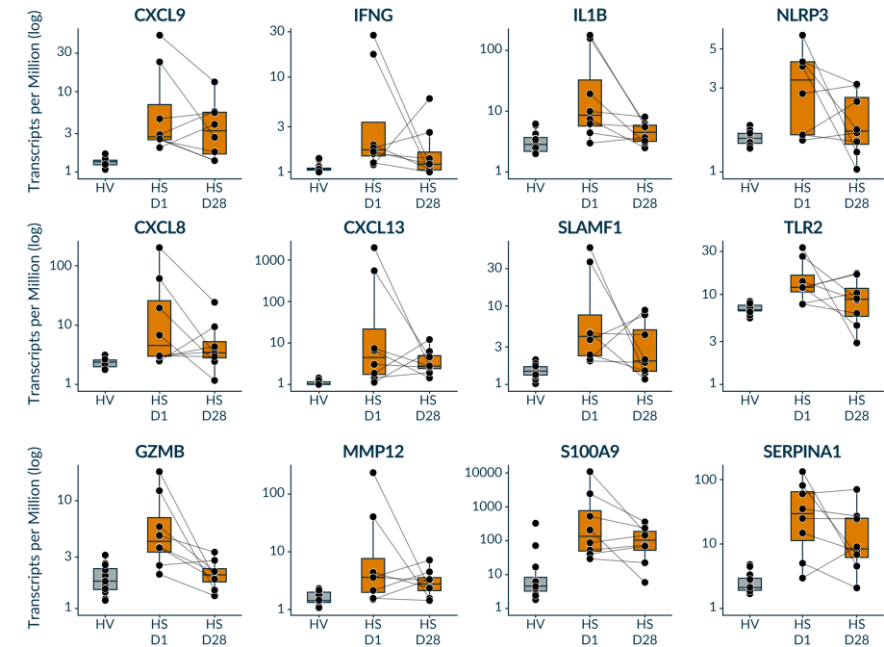
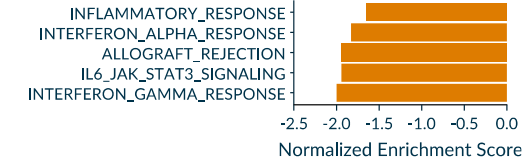


AD vs Healthy



## Anti-inflammatory Effect of KT-474 Treatment in HS

HS D28 vs D1



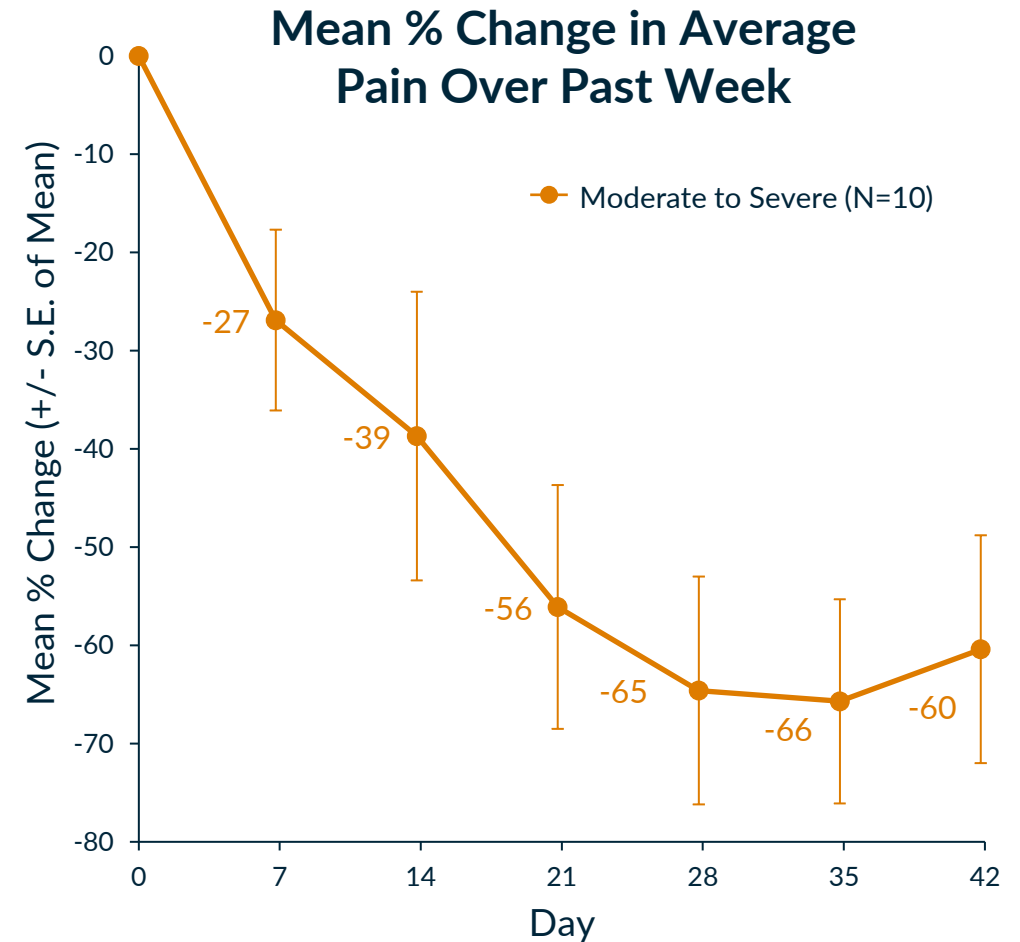
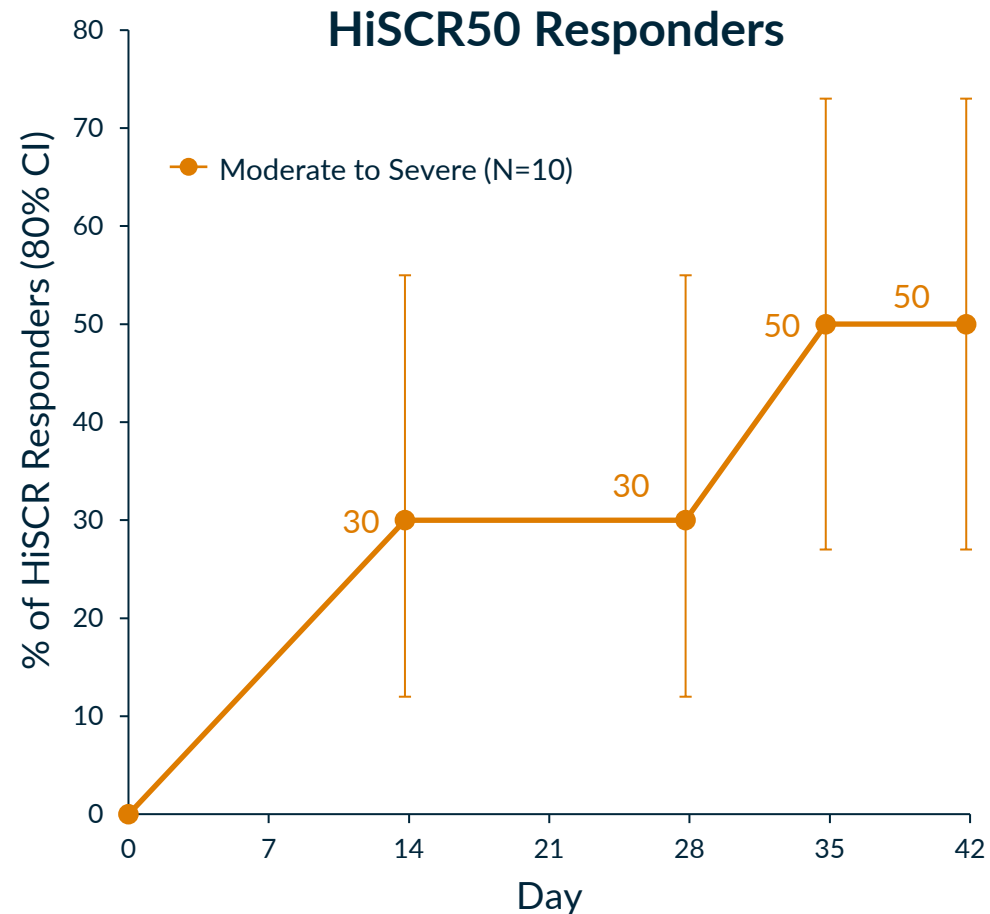
- Upregulation of pro-inflammatory genes and pathways in HS and AD skin lesions relative to healthy subjects

- Inflammatory burden greater in HS compared to AD, facilitating detection of downregulation following KT-474 treatment

- Multiple Th1 and innate immunity genes linked to IRAK4-controlled IL-1R and TLR pathways downregulated in HS

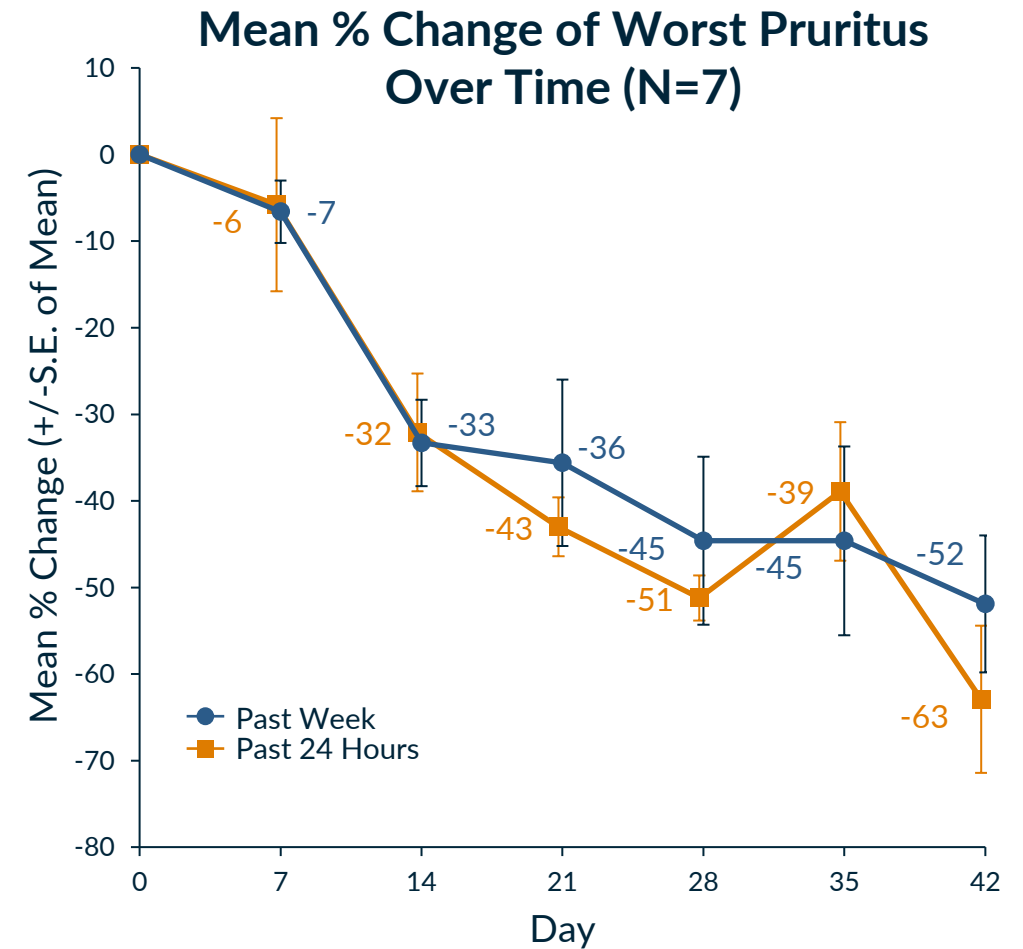
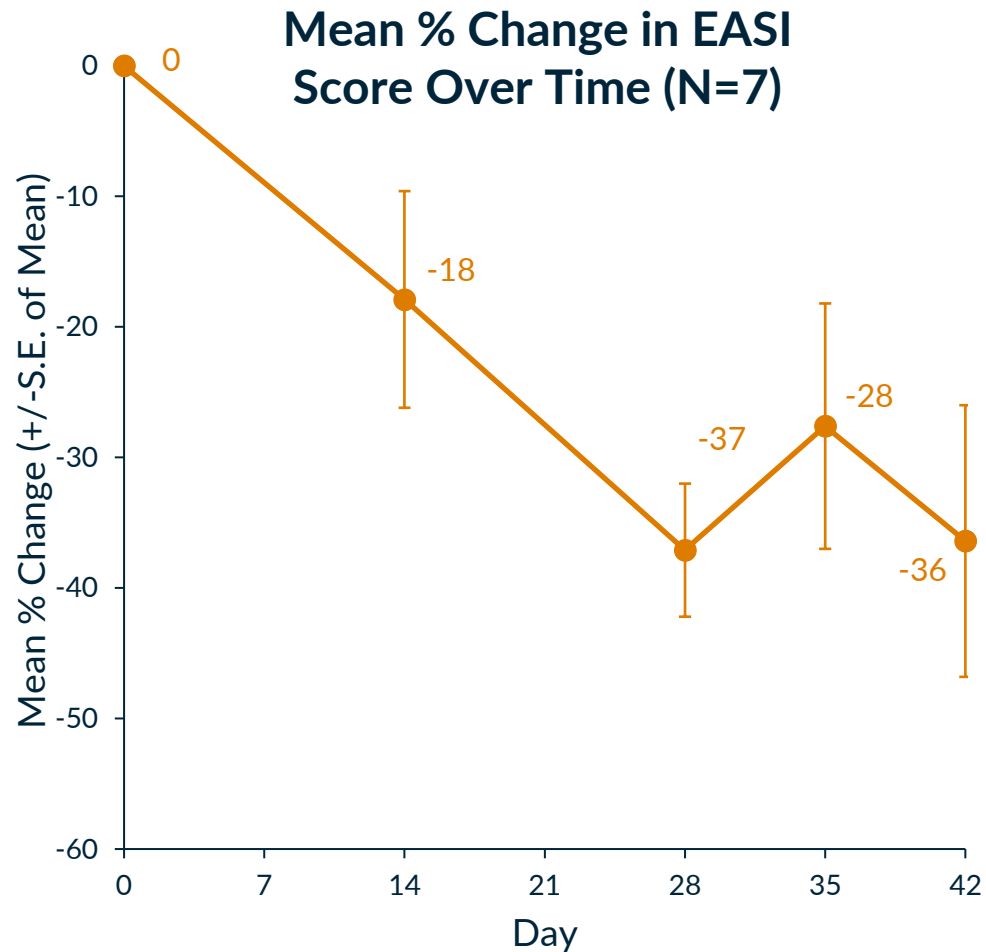


# Robust Clinical Impact in HS After Only 28 Days of Dosing



HiSCR50 response rate of up to 50% and pain reduction of up to 66% in moderate to severe HS patients

# Robust Clinical Impact in AD After Only 28 Days of Dosing



EASI score reduction of up to 36% and pruritus reduction of up to 63% in moderate to severe AD patients

# KT-474/SAR444656: Positioned for Clinical Success



## Phase 2 HS Trial<sup>1</sup> (ZEN)

- Double-blind, placebo-controlled
- Up to 99 patients, dosed for 16 weeks
- 1 KT-474 dose arm, 1 placebo arm
- Primary endpoint: % Change in AN Count
- Additional endpoints (select):
  - HiSCR50, IHS4, HS-Skin Pain-NRS30

## Phase 2 AD Trial<sup>1</sup> (ADVANTA)

- Double-blind, placebo-controlled
- Up to 115 patients, dosed for 16 weeks
- 2 KT-474 dose arms, 1 placebo arm
- Primary endpoint: % Change in EASI
- Additional endpoints (select):
  - EASI 50/75/90, vIGA-AD, PP-NRS

**Sanofi, following a safety/efficacy IA, expanding ongoing Phase 2 program to more rapidly progress toward pivotal trials**

Additional information on the Phase 2 studies can be found at [www.clinicaltrials.gov](http://www.clinicaltrials.gov); identifier NCT06028230 (HS) and NCT06058156 (AD); Study Sponsor: Sanofi

<sup>1</sup>Trial designs and timing for the expanded Phase 2 completion dates and data readouts to be updated once Sanofi completes ongoing expansion-enabling activities.

# Oral IRAK4 Degradator: KT-474

A best-in-pathway broad oral anti-inflammatory agent for multiple inflammatory diseases



## Validated Biology

Mediates signaling through IL-1 and toll-like receptors

Upstream cytokine blockers with proven clinical activity across many diseases

Scaffolding kinase at the interface of innate and adaptive immune responses with a variety of functions

## Competitive Profile

Potential for Broad Activity Across Th1-Th17 and Th2 Diseases

>\$50B in combined global drug sales<sup>1</sup> opportunity

Large potential for oral degraders with best in pathway efficacy

## KT-474 Progress

Phase 1 complete:

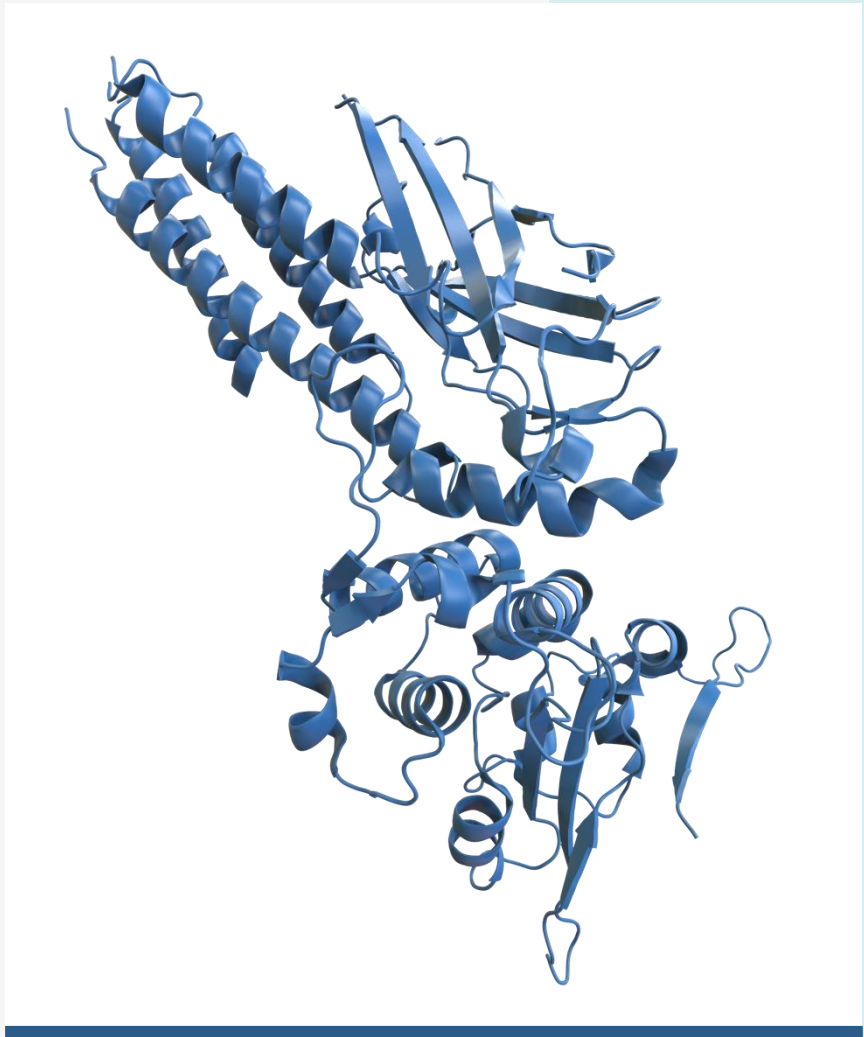
- Robust IRAK4 degradation
- Favorable safety profile
- Systemic suppression of proinflammatory cytokines and chemokines
- Early signs of strong clinical activity

Partner Sanofi, after safety/efficacy IA, intends to expand the ongoing Phase 2 trials in HS and AD to accelerate timelines and inform future pivotal trials<sup>2</sup>

**Activity and fidelity of translation of TPD platform in KT-474 Phase 1 trial informs probability of success with STAT6 and TYK2 immunology programs**

<sup>1</sup>GlobalData (2022 sales for AD, HS, Asthma, COPD, UC, CD, RA, SLE);

<sup>2</sup>Trial designs and timing for the expanded Phase 2 completion dates and data readouts to be updated once Sanofi completes ongoing expansion-enabling activities.



# First-in-Class Oral STAT6 Degradar Program

# STAT6 Biology and Target Rationale

## Target Biology and rationale

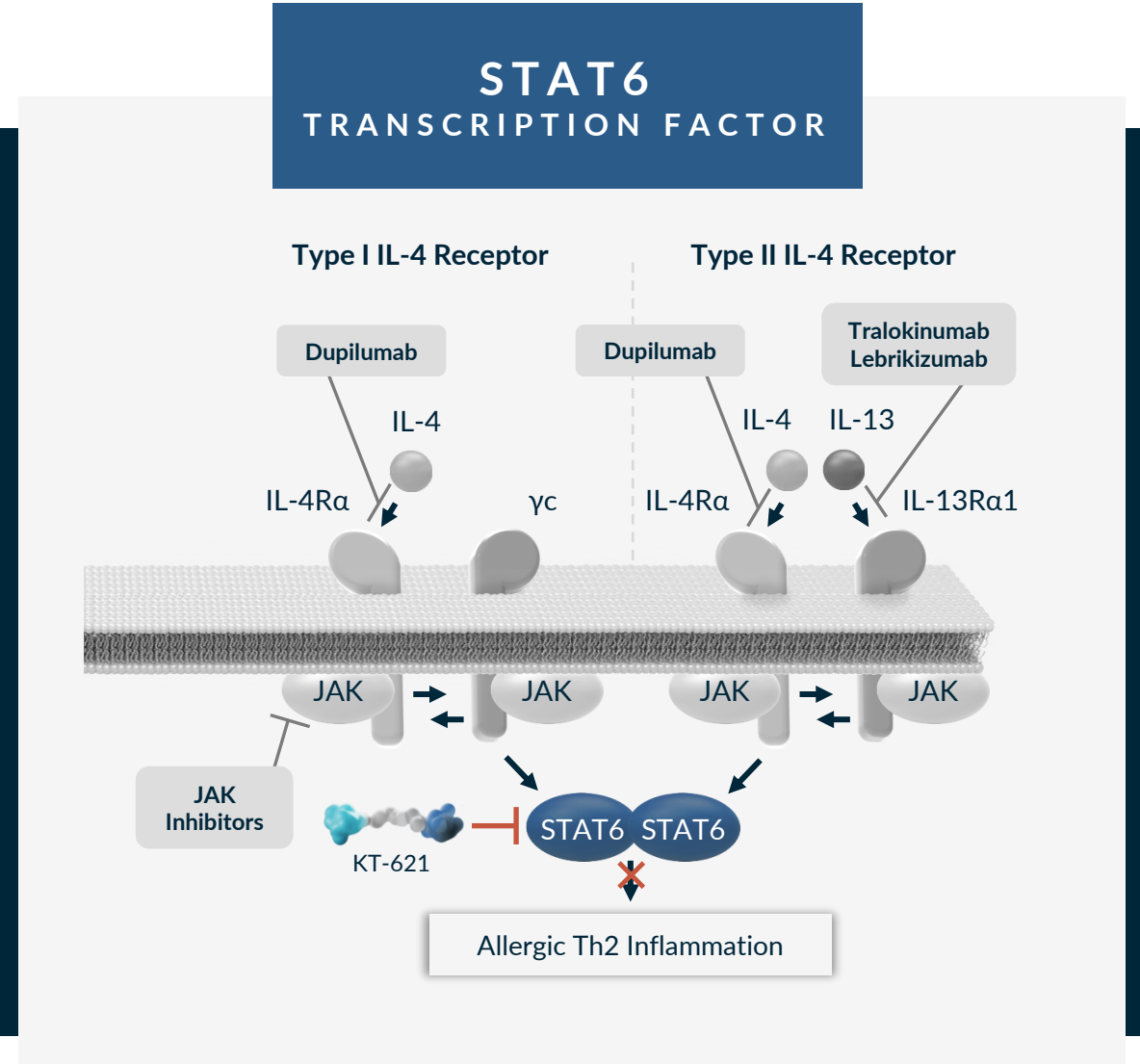
- STAT6 is the specific transcription factor required for IL-4 and IL-13 cytokine signaling
- STAT6 regulated cytokines are clinically validated targets for allergic diseases

## Human and Mouse Genetics

- Gain of function (GOF) mutations of STAT6 cause severe allergic diseases in human
- STAT6 KO mice develop normally, are viable and fertile

## Clinical Pathway Validation

- Dupilumab, an IL-4R $\alpha$  monoclonal Ab that blocks IL-4/IL-13 signaling, has been approved in: Atopic dermatitis, Asthma, CRSwNP, Eosinophilic Esophagitis, Prurigo Nodularis, has positive Phase 3 data in COPD and is in development for multiple additional indications
- STAT6 degradation can fully block IL-4/IL-13 signaling\*

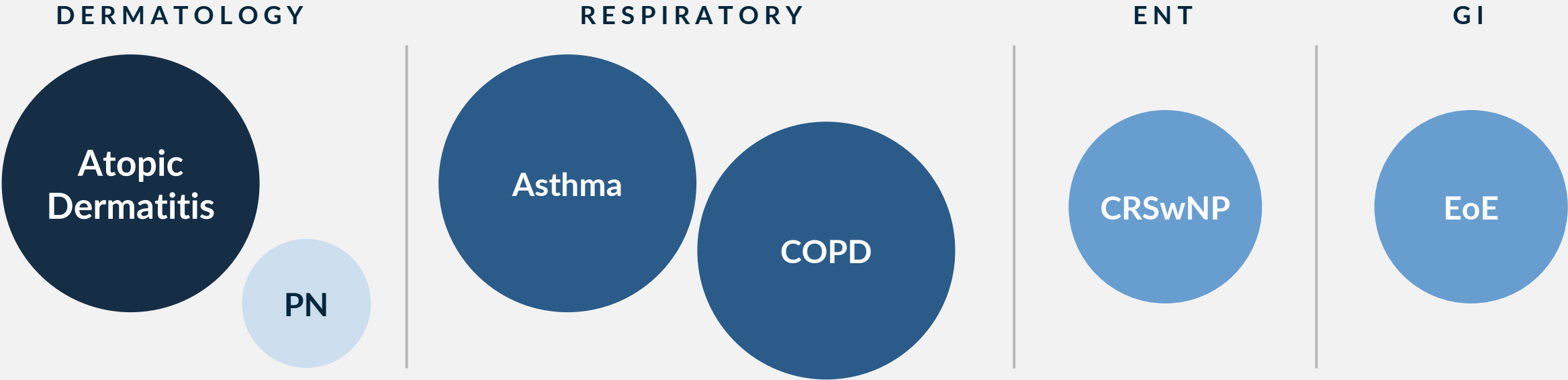


Adapted from Junttila. Front Immunol. 2018; Sharma et al. J Exp Med. 2023; Suratannon et al. J Allergy Clin. Immunol. 2022; Takeuchi et al. J Allergy Clin Immunol. 2022

\*Statements regarding STAT6 degrader biology throughout this presentation are based upon preclinical experiments in human cells and preclinical species conducted by Kymera



# Oral STAT6 Degradors Can Transform Treatment Paradigm in Multiple Indications De-risked by Dupilumab



Total Potential Patient Impact<sup>1</sup>: >150M patients

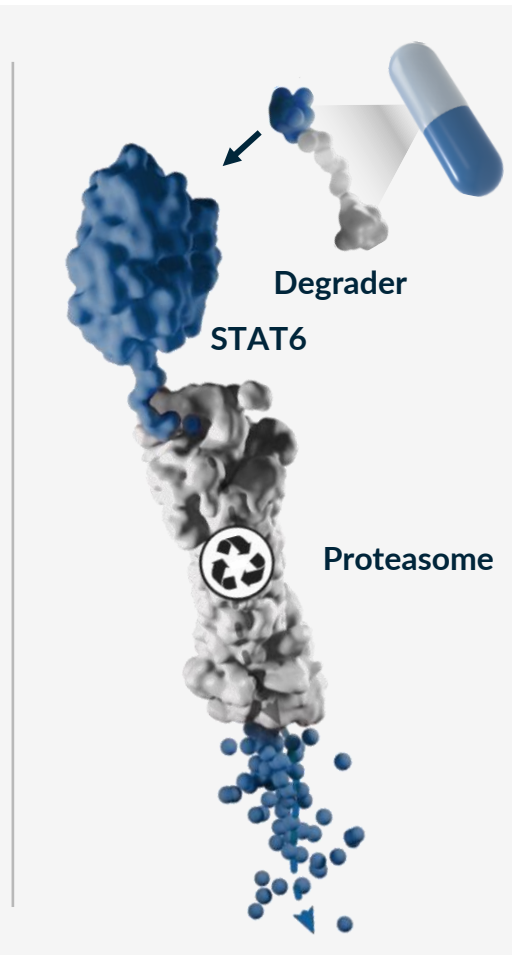
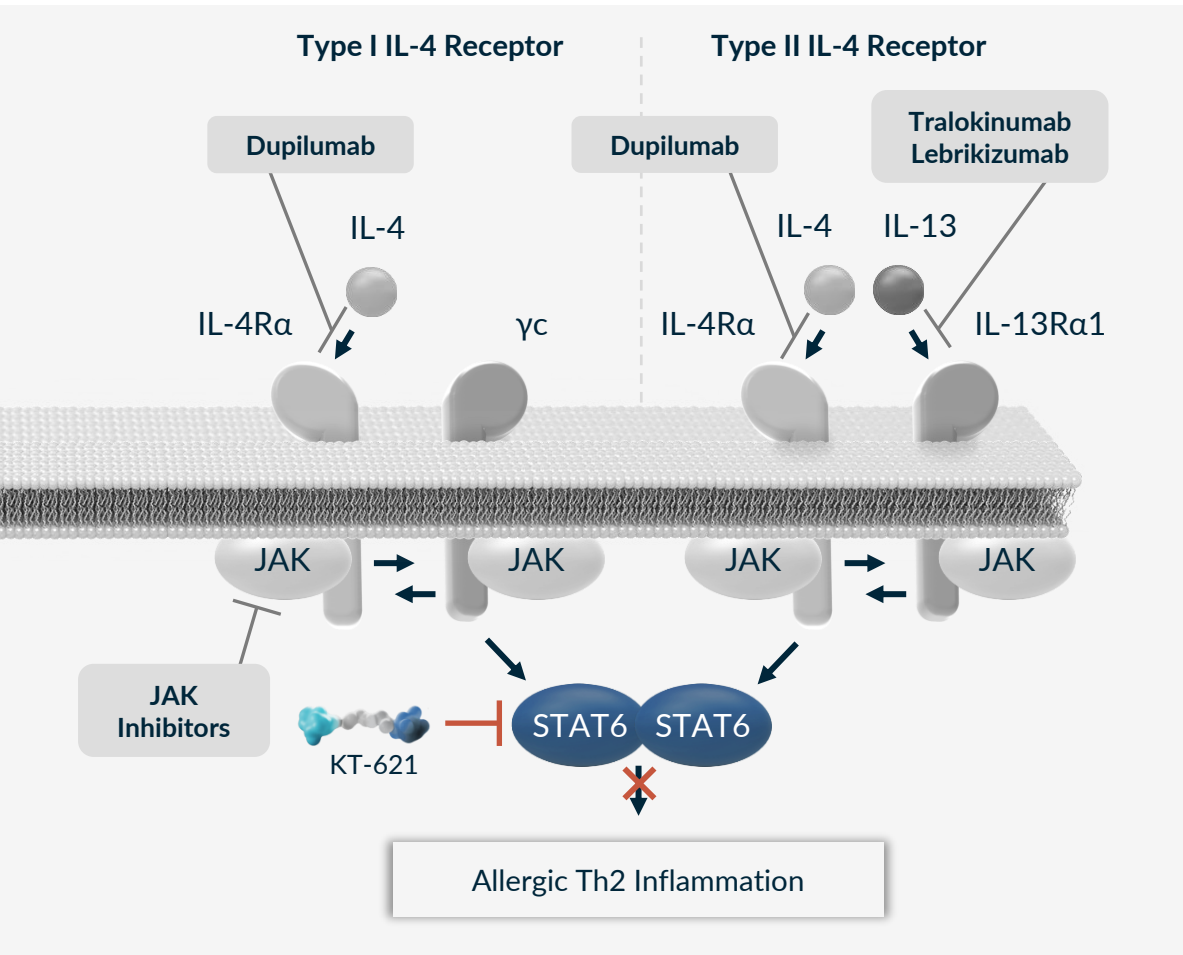
Numerous indication opportunities across multiple therapeutic areas de-risked by dupilumab

STAT6 degradation leading to full pathway inhibition has the potential to deliver dupilumab-like activity

Oral degrader medicines offer opportunity to reach broader patient populations

<sup>1</sup>GlobalData (2022 diagnosed prevalent patient population for US/EU5/JP)






# STAT6 Degradation Advantage



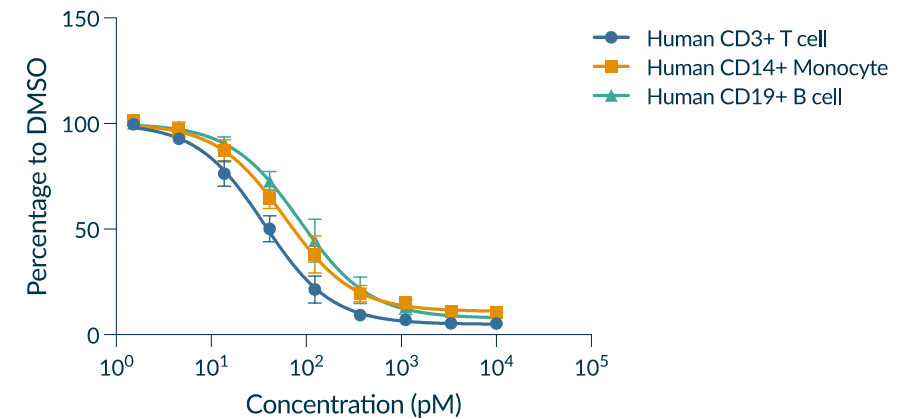
- STAT6 is the specific and essential transcription factor in the IL-4/13 pathway
- Occupancy based approaches (e.g., SMI) unlikely to block pathway fully in a pharmacologically relevant manner
- However, degradation of STAT6 can fully block IL-4/IL-13 signaling *in vitro* and *in vivo*

# KT-621: A Picomolar Degradator of STAT6

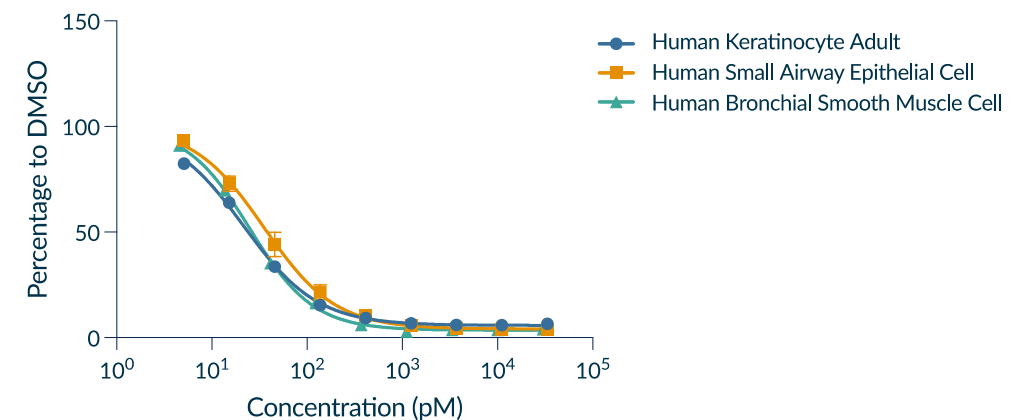
Consistent Degradation Across All Disease Relevant Cell Types Evaluated

		Human Primary Cell Type	KT-621, DC <sub>50</sub> (pM)
<b>Hematopoietic cell (all TH2 diseases)</b>			
 Blood		Human PBMC	13
		Human CD3 T cell	36
		Human CD14 monocyte	60
		Human CD19 B cell	86
		Human eosinophil	99
<b>Epithelial cell (AD, CPG, CU, asthma, COPD)</b>			
 Skin		Human keratinocyte (adult)	22
		Human keratinocyte (neonatal)	18
 Lungs		Human bronchial tracheal epithelial cell	33
		Human small airway epithelial cell	35
<b>Smooth muscle cell (asthma, COPD, EoE)</b>			
 Throat/ Airway		Human bronchial smooth muscle cell	25
		Human esophageal smooth muscle cell	33
<b>Endothelial cell (all TH2 diseases)</b>			
 Blood Vessels		Human vascular endothelial cell	46

STAT6 Degradation in Hematopoietic Cells



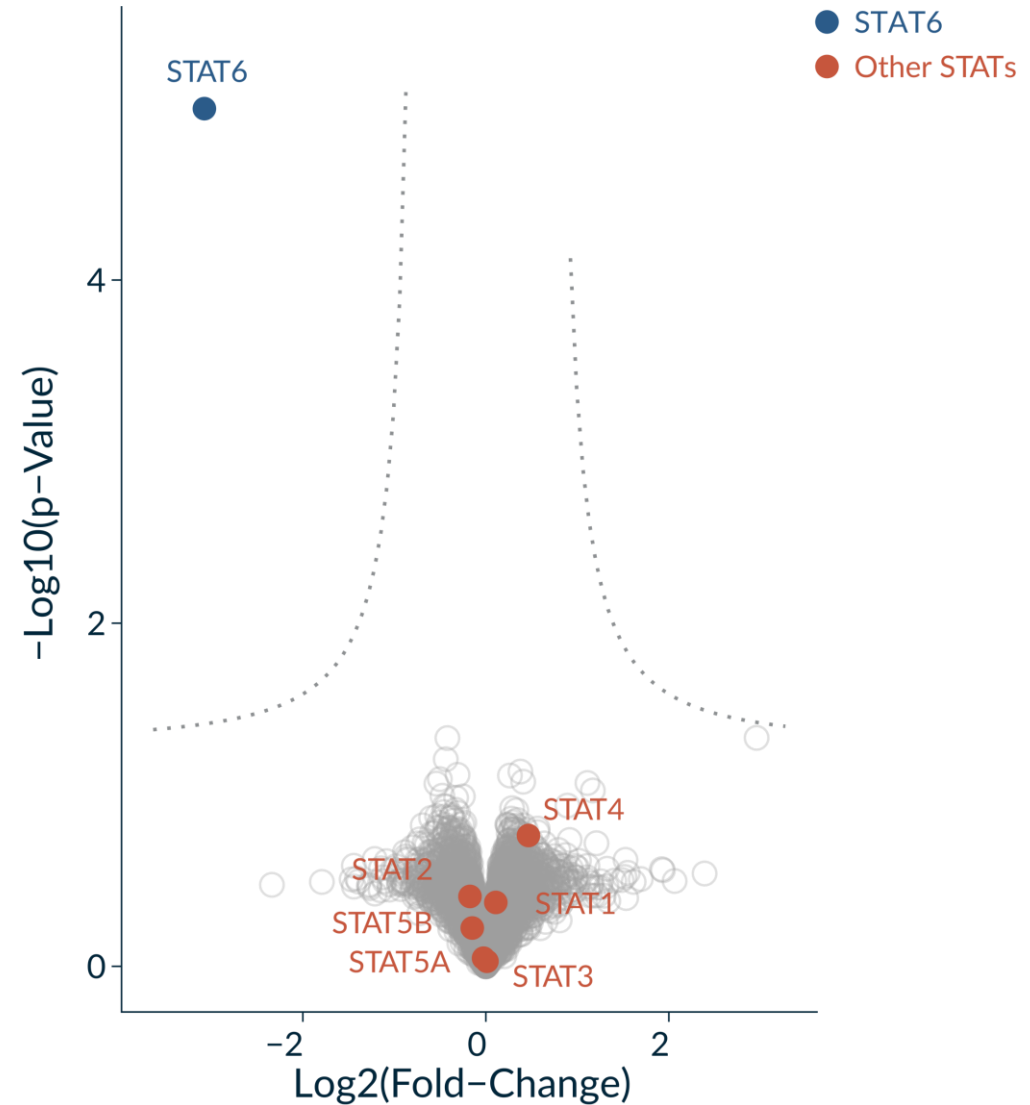
STAT6 Degradation in Tissue Cells



# KT-621: Exquisite Degradation Selectivity for STAT6

Complete STAT6 degradation selectivity in human PBMC proteome at 100 x DC<sub>90</sub>

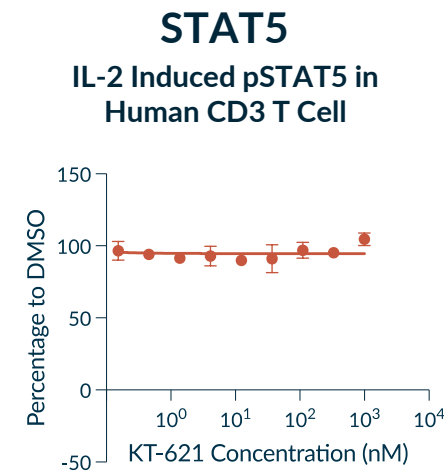
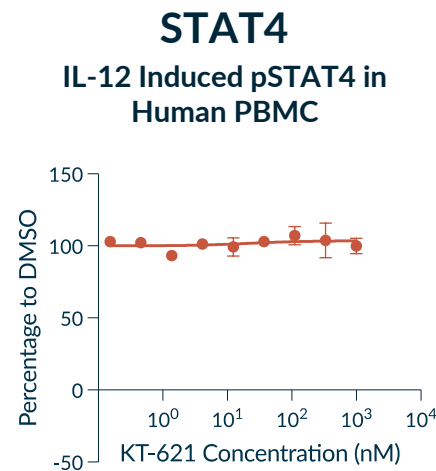
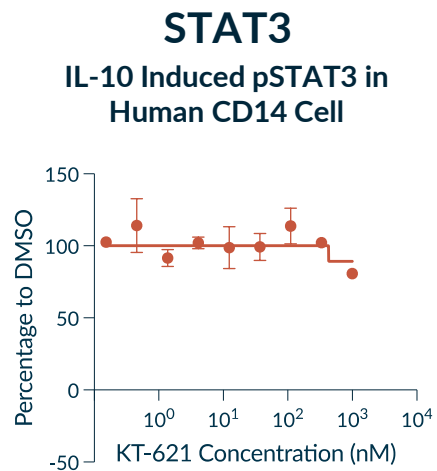
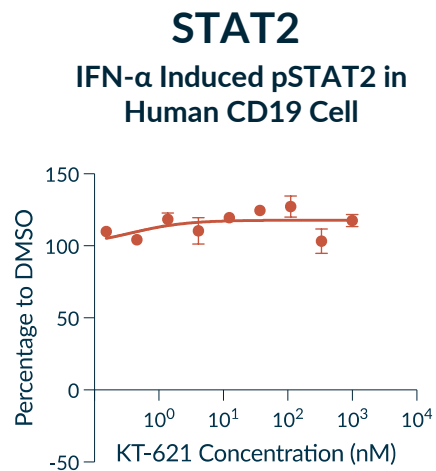
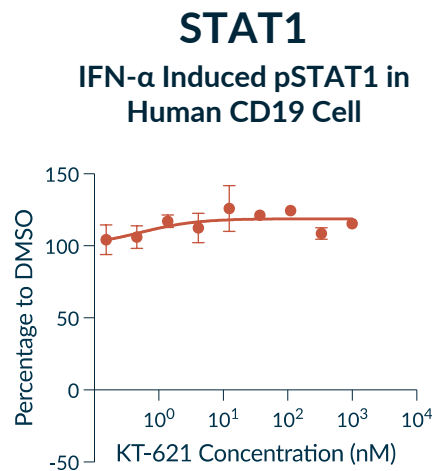
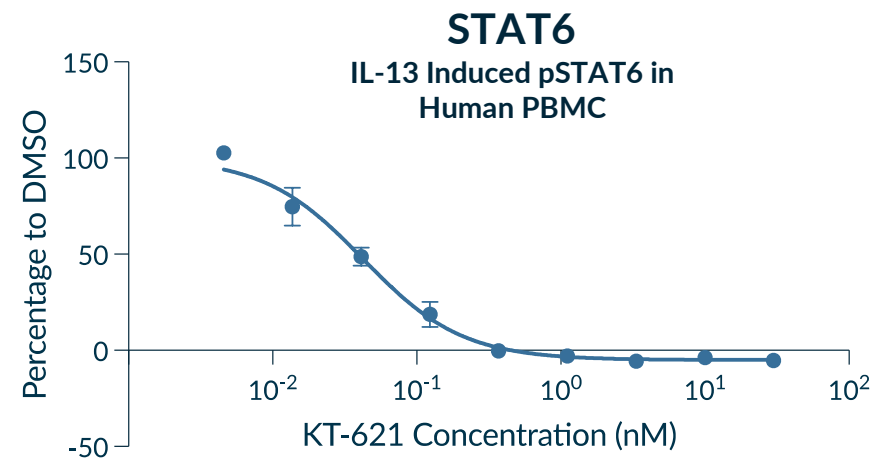
No other STATs are degraded to any extent



# KT-621: Exquisite Pathway Selectivity for STAT6

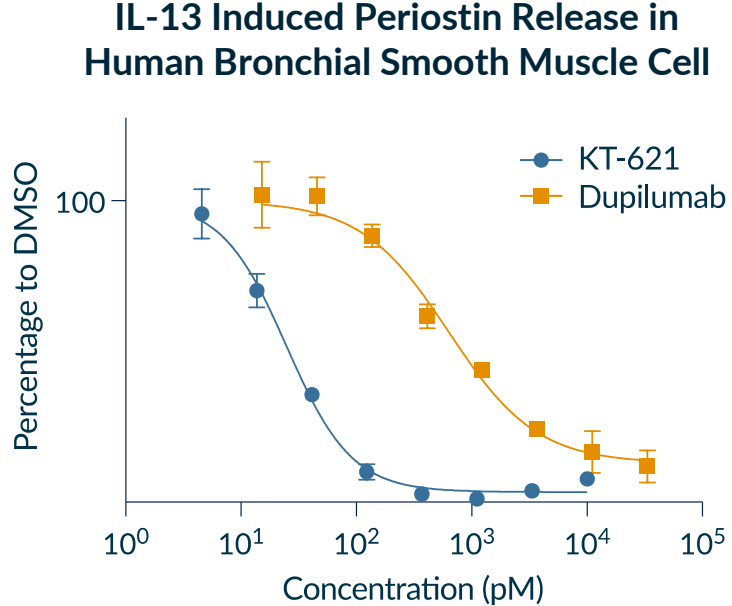
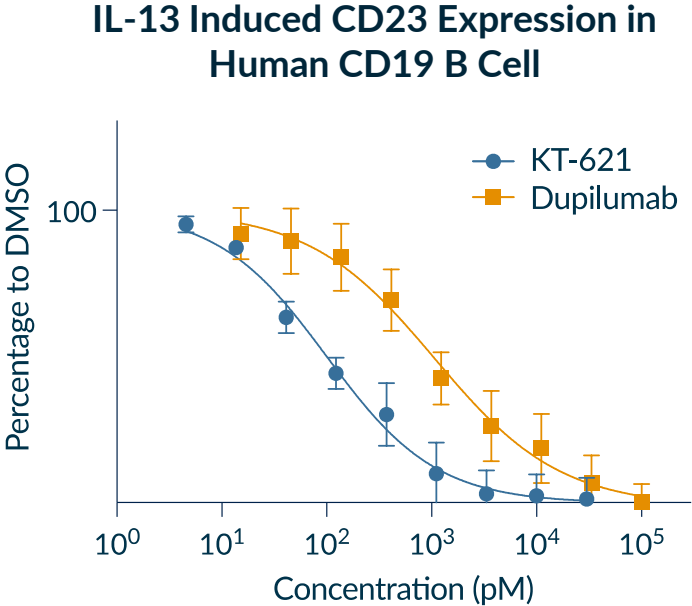
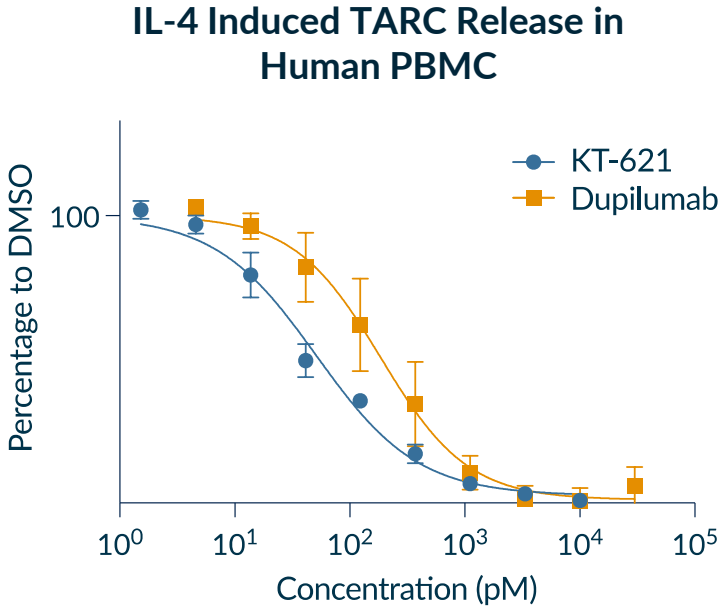
## No Impact on Any Other STAT Pathway Observed

STAT assays	KT-621, IC <sub>50</sub> (nM)
IFN-α induced pSTAT1	> 1000
IFN-α induced pSTAT2	> 1000
IL-10 induced pSTAT3	> 1000
IL-12 induced pSTAT4	> 1000
IL-2 induced pSTAT5	> 1000
IL-13 induced pSTAT6	0.042



# KT-621 Fully Blocks IL-4/13 Pathway in Human TH2 Functional Assays with IC<sub>50</sub>'s Lower than Dupilumab

		Cellular Functional Assay	KT-621 IC <sub>50</sub> (pM)	Dupilumab IC <sub>50</sub> (pM)
<b>TARC</b>	Serum Th2 biomarker, chemoattractant for Th2 cell	IL-4 TARC release in human PBMC	62	194
		IL-13 TARC release in human PBMC	43	113
<b>CD23</b>	B cell activation marker, correlates with IgE class switch	IL-4 CD23 expression in human CD19 B cell	125	354
		IL-13 CD23 expression in human CD19 B cell	98	1070
<b>PERIOSTIN</b>	Serum Th2 biomarker and ECM protein associated with tissue remodeling in atopic diseases	IL-13 Periostin release in human bronchial smooth muscle cell	24	637
		IL-13 Periostin release in human esophageal smooth muscle cell	39	431



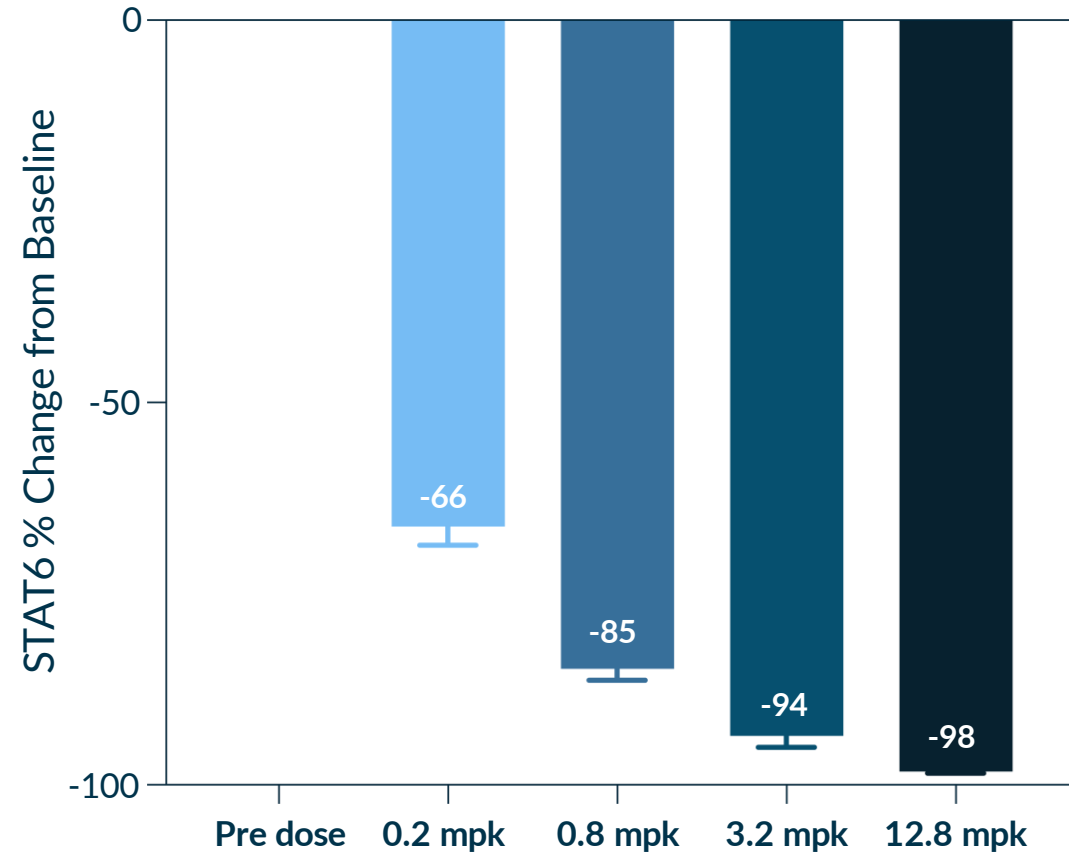


# KT-621 Achieves Dose Dependent Deep Degradation of STAT6 *in vivo* with Low Oral Doses

KT-621 potently degrades STAT6 across multiple preclinical species

KT-621 can degrade STAT6 to depletion with low oral doses

STAT6 Degradation in Dog Blood post 7 days of KT-621 QD Oral Dosing

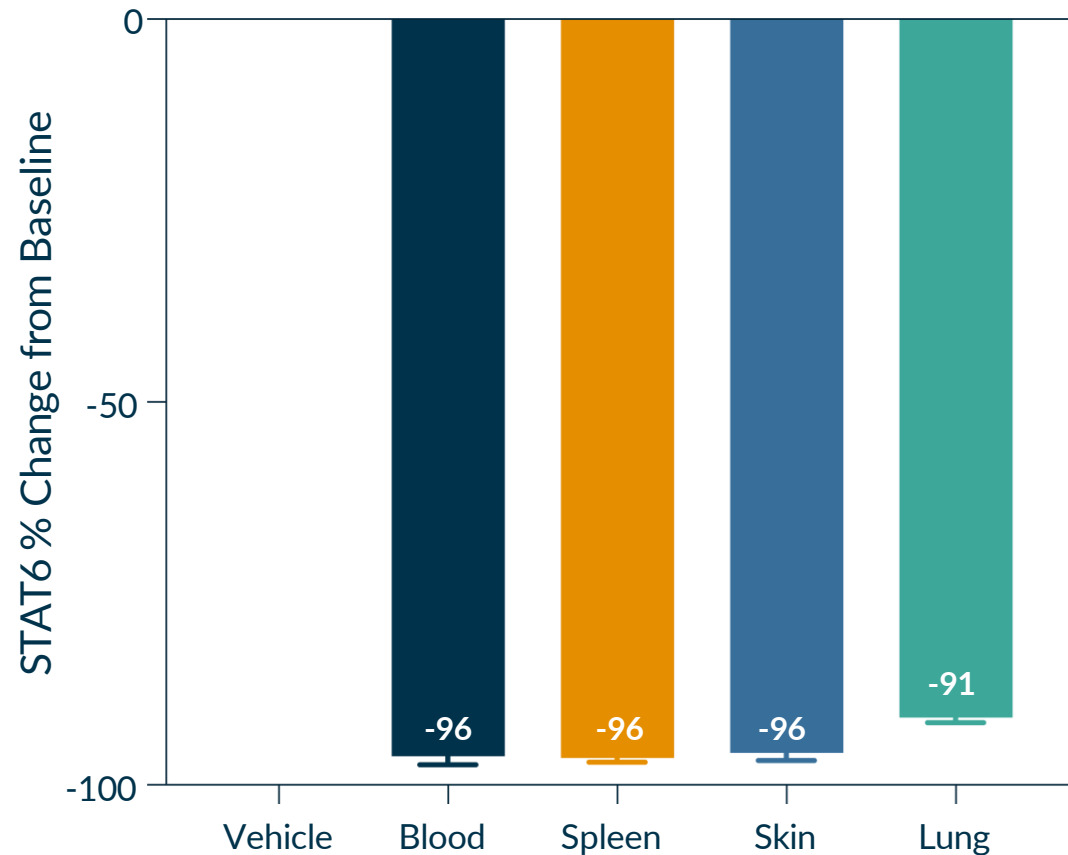


# KT-621 Degrades STAT6 in Disease Relevant Tissues in NHP

Deep degradation of STAT6 in NHP after 14 days of daily oral dosing

STAT6 is degraded in key disease-relevant tissues: blood, spleen, skin and lung

STAT6 Degradation in NHP Tissues post 14 days of KT-621 10 mpk QD Oral Dosing

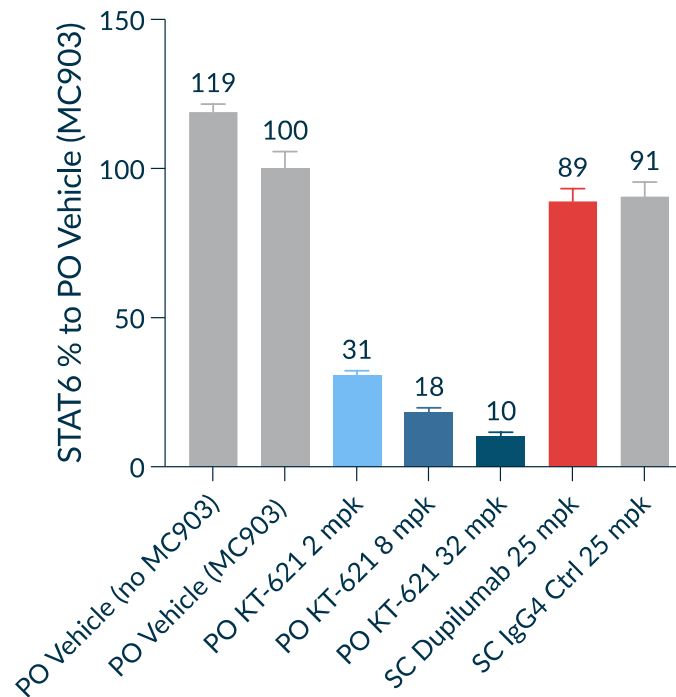


# KT-621 Has Comparable *in vivo* Activity to IL-4R $\alpha$ Saturating Dose of Dupilumab in the MC903 Atopic Dermatitis Model

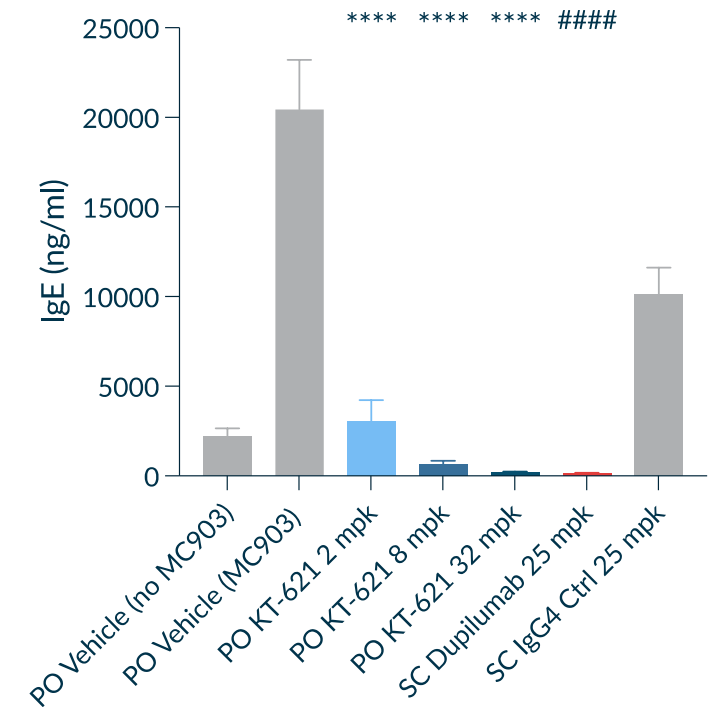
An atopic dermatitis model induced by topical application of low-calcemic vitamin D3 analog MC903 with prominent Th2 inflammation in the IL4/IL4RA humanized mice:

- **KT-621 dosed QD orally for 11 days**
- **Dupilumab dosed 4 times subcutaneously, 25 mpk twice a week (IL-4R $\alpha$  saturating dose); effect equivalent to 300 mg every other week in human**

STAT6 Degradation in Mouse Spleen



Total Serum IgE

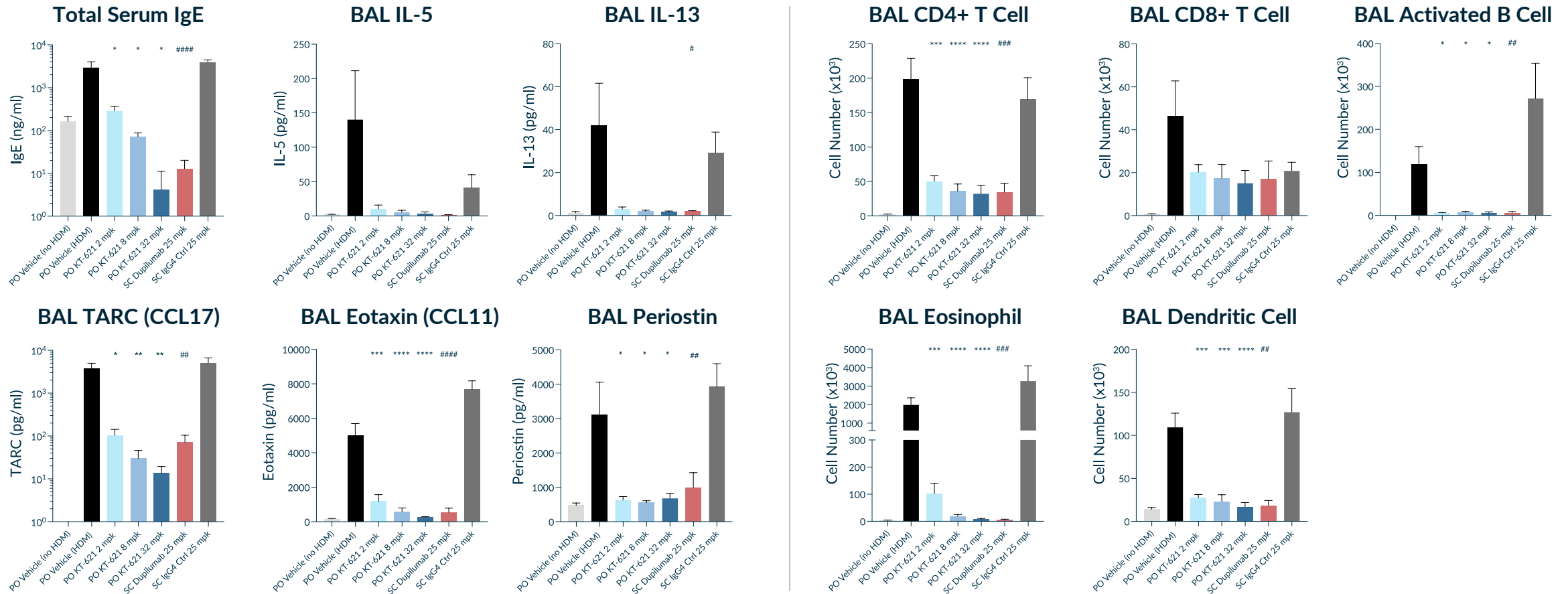


\* Significance to PO vehicle (MC903); # Significance to SC IgG4 25 mpk BIW

# KT-621 Blocks TH2 Inflammation *in vivo* Equally or Better than an IL-4R $\alpha$ Saturating Dose of Dupilumab in the Intranasal HDM Asthma Model

## Serum IgE and Lung Cytokine

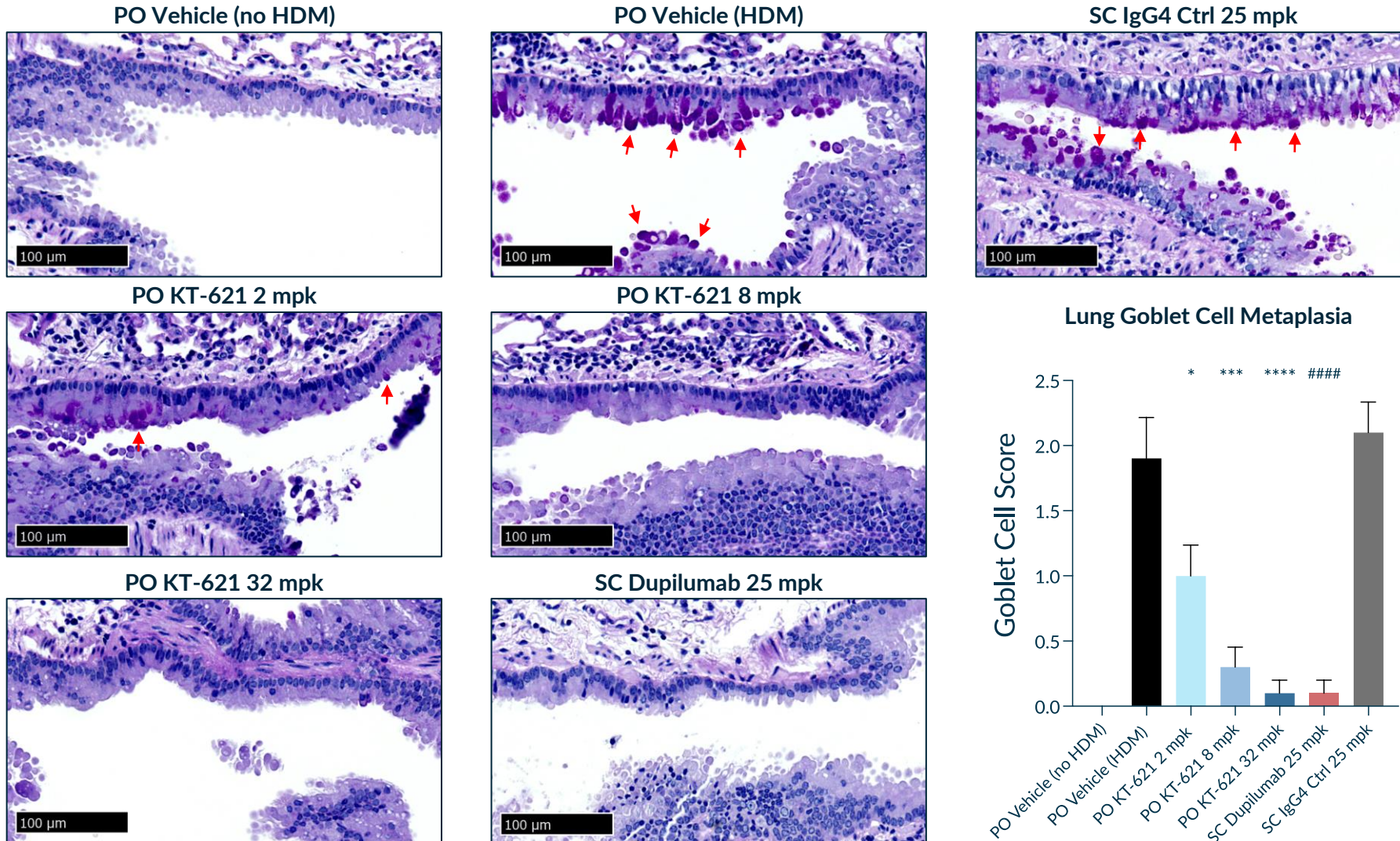
## Inflammatory Infiltrate



- **KT-621 dosed QD orally for 31 days. 2/8/32 mpk doses showed 72/85/91% STAT6 degradation respectively in mouse spleen**
- **Dupilumab dosed 9 times subcutaneously, 25 mpk BIW (IL-4R $\alpha$  saturating dose), effect equivalent to 300 mg every other week in human**

# KT-621 Reduced Disease Severity in the Lung in the Intranasal HDM Asthma Model

## Lung Remodeling: Goblet Cell Metaplasia (Arrow)



Amelioration of lung remodeling seen after low daily oral doses of KT-621 comparable to dupilumab

A lung inflammation model induced by intranasal house dust mite administration with dominant Th2 inflammation in the IL4/IL4RA humanized mice (Le Floc'h et al. Allergy. 2020); \*Significance to PO vehicle (HDM); # Significance to SC IgG4 Ctrl 25 mpk.



# Oral STAT6 Degradator: KT-621

Potential for dupilumab-like activity with oral small molecule profile

Upcoming Presentation:  
EADV 2024

## Validated Biology

Specific and essential transcription factor in IL-4 and IL-13 signaling pathways

Central driver of Th2 inflammation

STAT6 validated by human genetics

Pathway validated by human genetics and dupilumab across multiple indications

## Competitive Profile

WW IL-4/IL-13 biologic market currently \$10B+ annually

Estimated to grow to \$23B+ with expanded indications and new entrants

Mega-blockbuster potential for oral degraders in allergic diseases

Potential to access beyond biologics-eligible patients and much larger population

## FIH: 2H 2024

Full IL-4 and IL-13 functional inhibition with picomolar  $IC_{50}$ 's superior to dupilumab

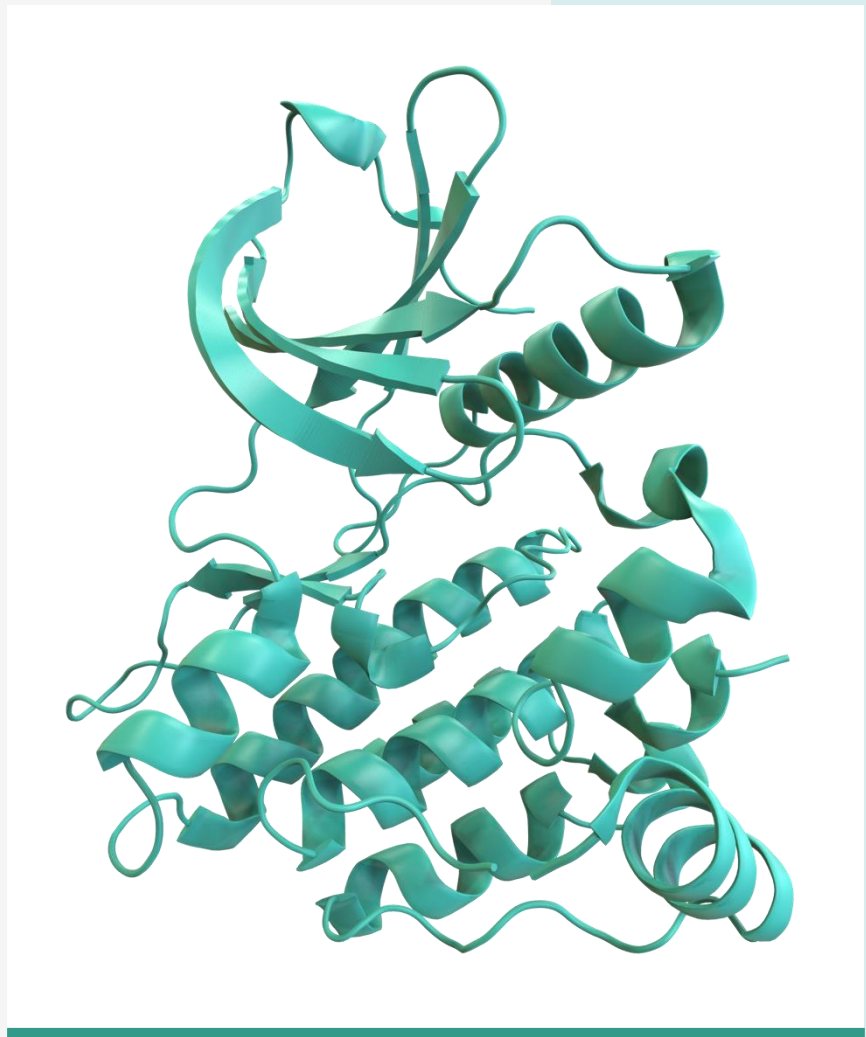
Robust activity shown in *in vivo* preclinical models of atopic dermatitis and lung inflammation equal or superior to dupilumab

STAT6 degradation was well-tolerated in multiple preclinical safety studies (including GLP-tox) at >40x efficacious concentration

IND enabling studies completed







# First-in-Class Oral TYK2 Degradator Program

# TYK2 Biology and Target Rationale

## Target Biology and Rationale

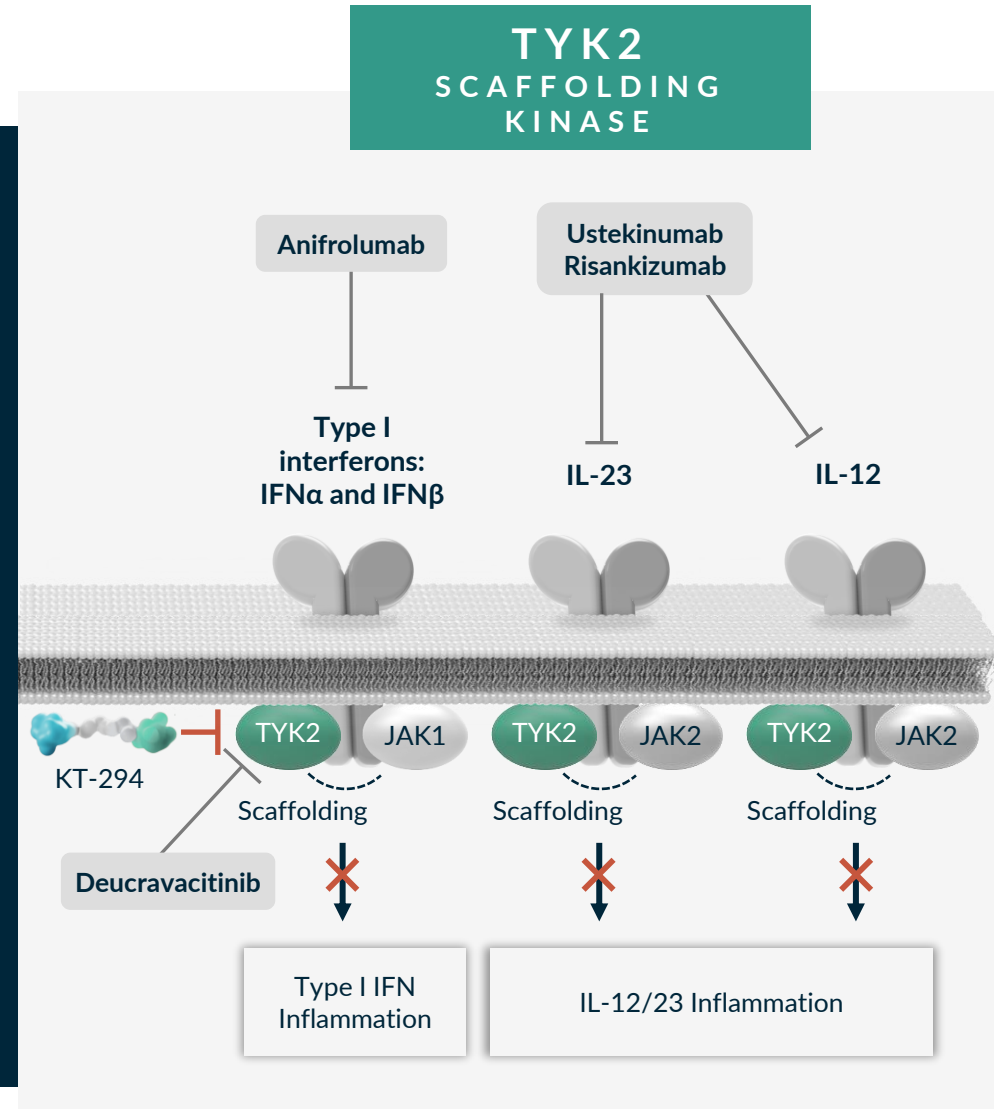
- TYK2 is a member of the JAK family required for Type I IFN, IL-12 and IL-23 cytokine signaling
- TYK2 regulated cytokines are clinically validated targets for autoimmune and inflammatory diseases

## Human Genetics

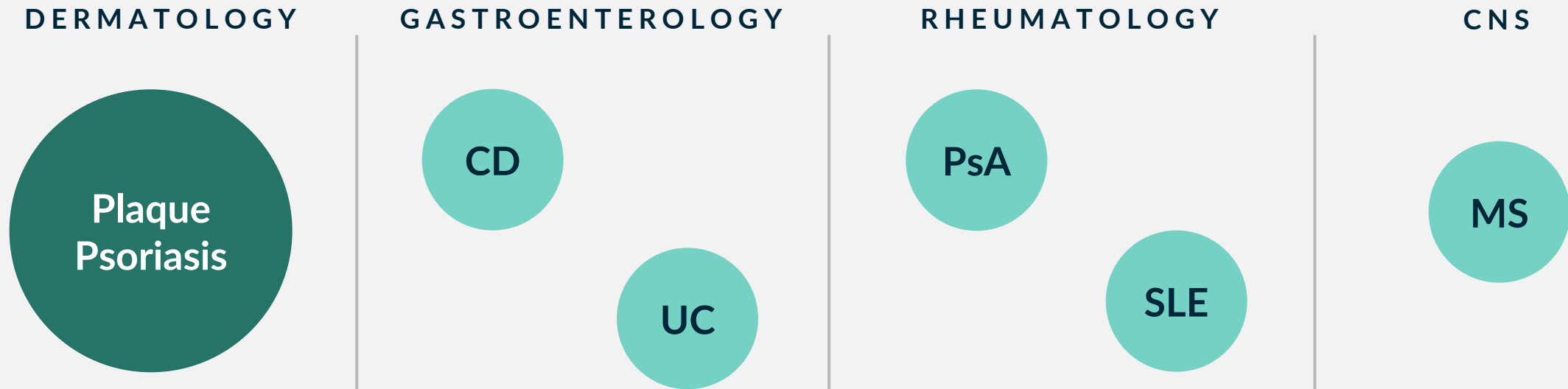
- Loss-of-function variant of TYK2 is protective in autoimmune and inflammatory diseases

## Clinical Pathway Validation

- IL-23 ( $\pm$  IL-12)-targeting agents include ustekinumab, risankizumab, guselkumab, and tildrakizumab, with approvals in PsO, PsA, CD, UC
- Type I IFN-targeting agents include anifrolumab with approval in SLE
- TYK2 SMI deucravacitinib recently approved in PsO



# Patient Impact of TYK2: Potential Best-In-Class Opportunity in I&I



Total Potential Patient Impact<sup>1</sup>: > 20M patients

Numerous indication opportunities across multiple therapeutic areas de-risked by biologics and deucravacitinib

TYK2 degradation, differentiated from inhibition, leads to full pathway inhibition with potential to deliver biologic-like activity\*

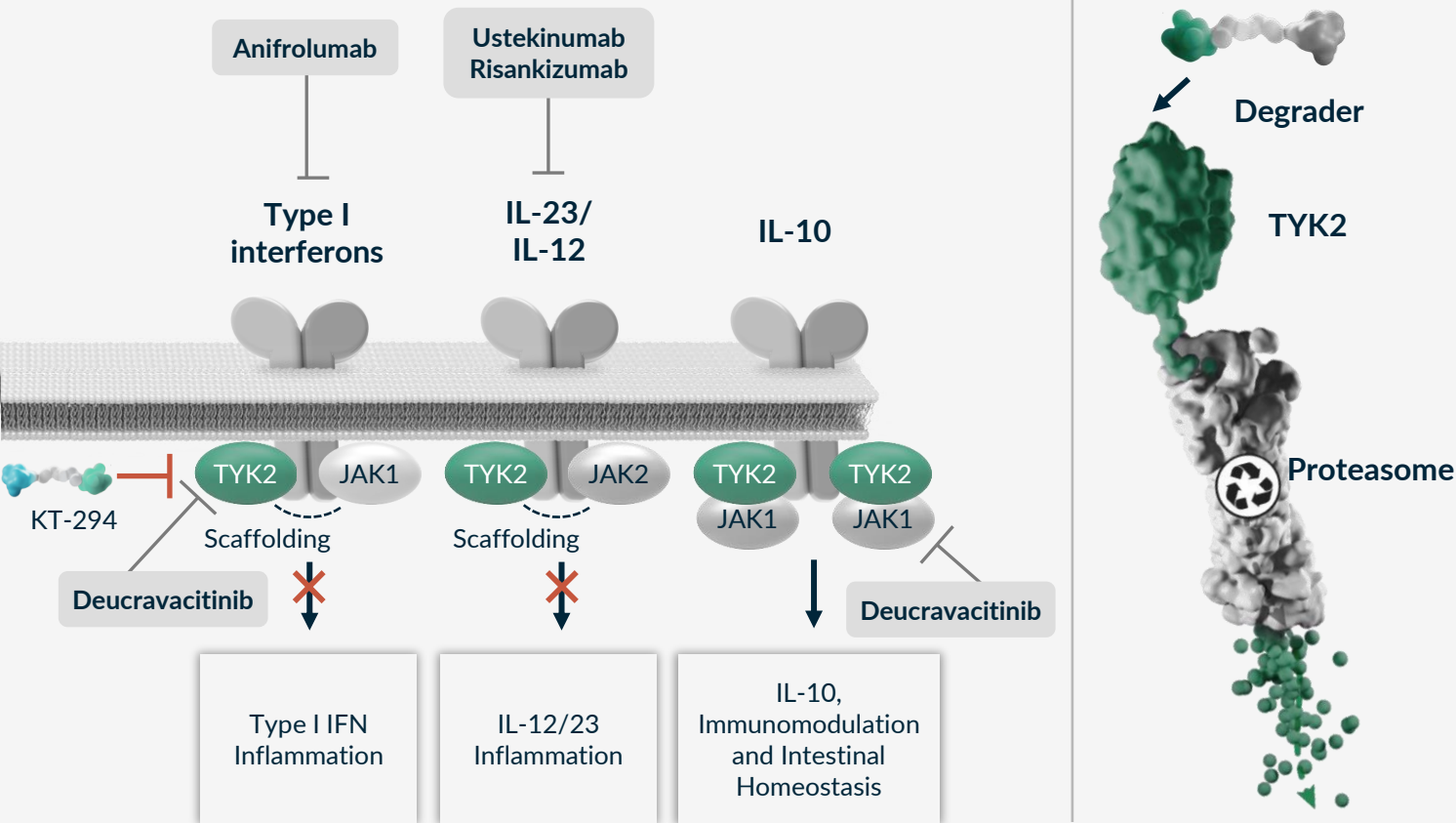
Oral degrader medicines offer opportunity to reach broader patient populations

<sup>1</sup>GlobalData (2022 diagnosed prevalent patient population for US/EU5/JP)

\*Statements regarding TYK2 degrader biology throughout this presentation are based upon preclinical experiments in human cells and preclinical species conducted by Kymera

# TYK2 Degradator Advantage

## Only TYK2 Degraders Can Reach Biologics-like Activity



- TYK2 has a well-established scaffolding function that is responsible for cytokine receptor surface expression and activation
- Unlike SMIs, only TYK2 degradation recapitulates the human LOF phenotype of full pathway inhibition of Type I IFN, IL-12 and IL-23 and sparing of IL-10
  - Unlike deucravacitinib, which inhibits IL-10 through JAK1, KT-294 does not inhibit IL-10, which is important in IBD
  - Compared to TAK-279, KT-294 fully inhibits Type I IFN
- Full TYK2 degradation demonstrated by KT-294 leads to superior pathway inhibition to existing SMIs and potentially reach biologic-like activity

# TYK2 Has Well-Established Scaffolding Function

- TYK2 complete deficiency severely impairs IL-23, Type I IFN, and IL-12 signaling but spares IL-10 in humans
- TYK2 scaffolding functions are demonstrated by differential pathway inhibitions in complete TYK2 deficiency vs a kinase dead variant in humans
- TYK2 deficient humans are generally healthy with only increased risk of some mycobacteria and viral infections that are relatively mild, curable and tend not to recur, de-risking safety for TYK2 degradation

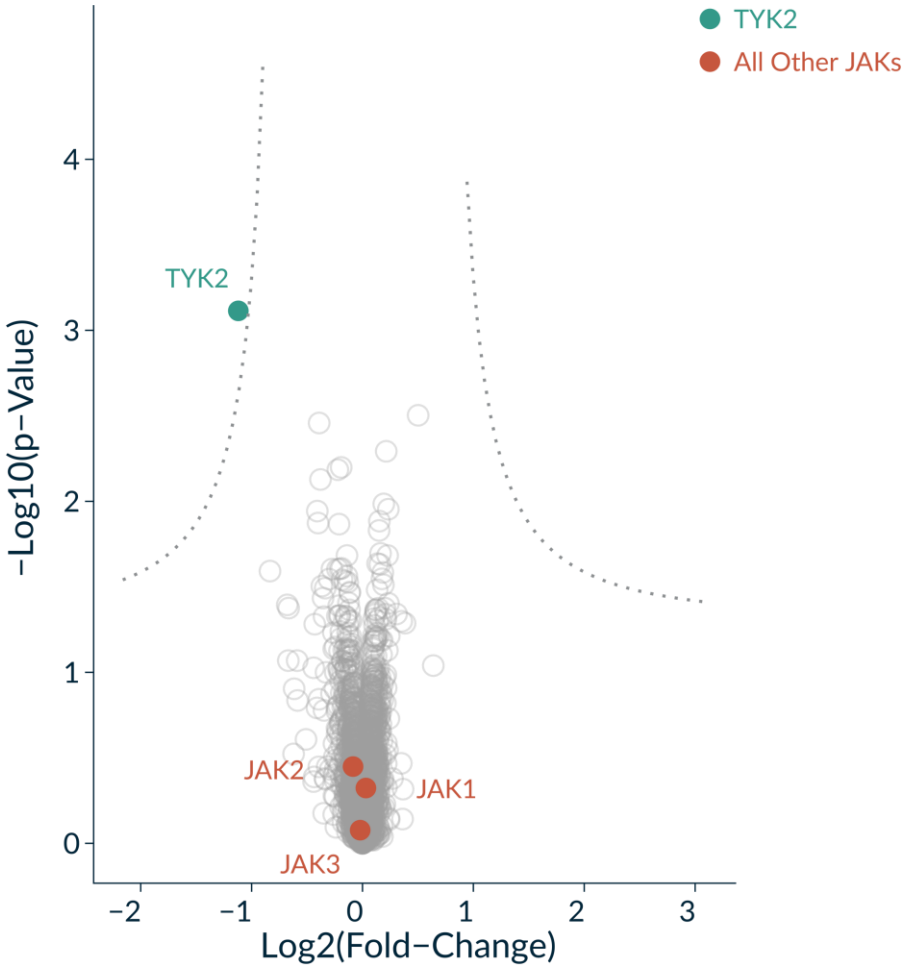
Cytokine Pathway	IL-23	Type I IFN	IL-12	IL-10
WT TYK2	++++	++++	++++	++++
Complete deficiency TYK2 -/-	+	+	+	+++
TYK2 Kinase dead P1104A/P1104A	+	++++	++++	++++

**Degrading TYK2 is the only small molecule approach to potentially eliminate all scaffolding and catalytic functions of TYK2, fully recapitulating the human TYK2-/- biology**

# KT-294, a Highly Selective Picomolar TYK2 Degradator, Recapitulates TYK2 Human Deficiency Biology

Fully Inhibits of Type I IFN and IL-12/23 and Spares IL-10/22

Selective TYK2 Degradation by KT-294 in hPBMC Proteome at 10x DC<sub>90</sub>



Cellular Degradation/Functional Assay	KT-294 DC <sub>50</sub> /IC <sub>50</sub> (nM)
Human PBMC degradation	0.08
Human keratinocyte (neonatal and adult)	0.07
<b>IL-23 pathway</b>	
IL-23 pSTAT4 in human PBMC	0.7
IL-23 pSTAT3 in human CD3+CD161high TH17 cell	2.1
IL-23/IL-1β IFN-γ release in human PBMC	2.4
<b>Type I IFN pathway</b>	
IFN-α pSTAT1 in human CD19 B cell	13
IFN-α pSTAT2 in human CD19 B cell	15
IFN-α IP10 release in human PBMC	4.9
<b>IL-12 pathway</b>	
IL-12/IL-18 pSTAT4 in human PBMC	1.3
IL-12/IL-18 IFN-γ release in human PBMC	10
<b>IL-10 and IL-22 pathways</b>	
IL-10 pSTAT3 in human CD14 monocyte	> 1000
IL-22 pSTAT1 in HT29 cell	> 1000
IL-22 pSTAT3 in HT29 cell	> 1000



# KT-294, Unlike Allosteric TYK2 Inhibitor Deucravacitinib, Does not Inhibit IL-10

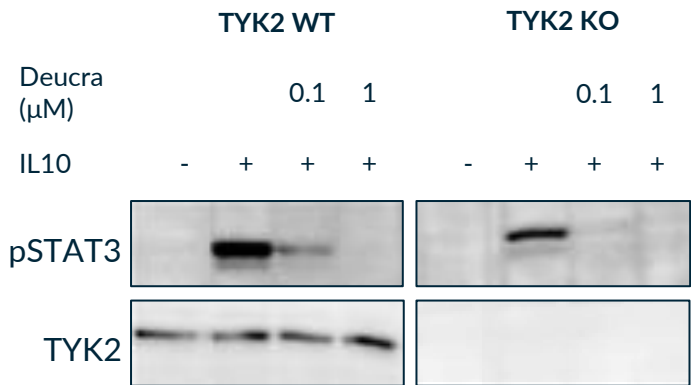
IL-10 has essential roles in intestinal homeostasis

- Loss of function mutations of the IL-10 pathway cause early onset refractory colitis in humans

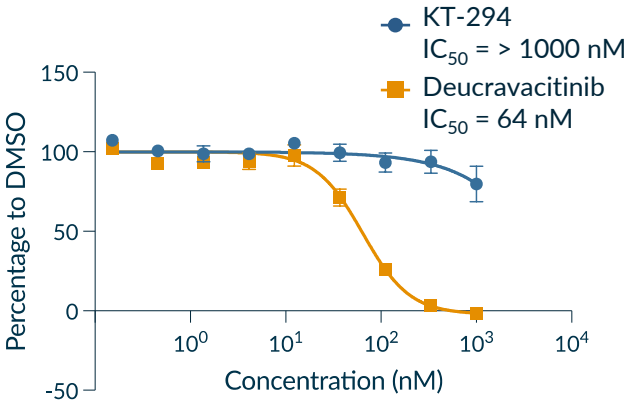
Deucravacitinib inhibits IL-10 because of its anti-JAK1 activity; KT-294 spares JAK1 and as a result IL-10

- Deucra JAK1 Ki = 0.33 nM (Burke et al. Sci Transl Med. 2019)
- KT-294 JAK1 Ki = > 1000 nM

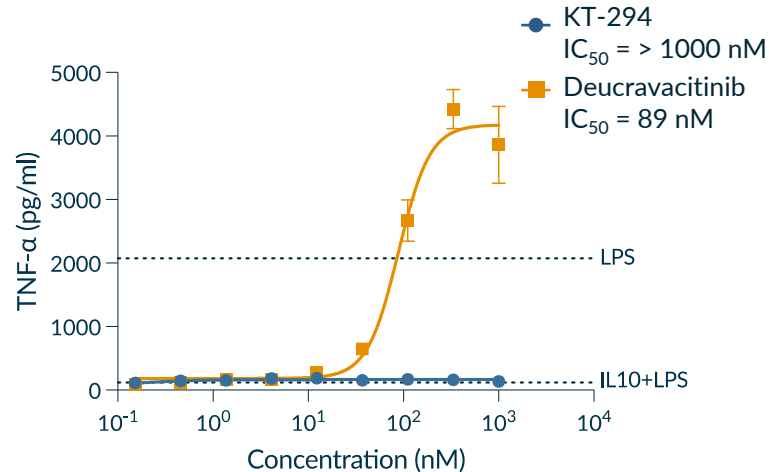
**Deucravacitinib Inhibited IL-10 induced pSTAT3 in TYK2 KO EBV B Cell**



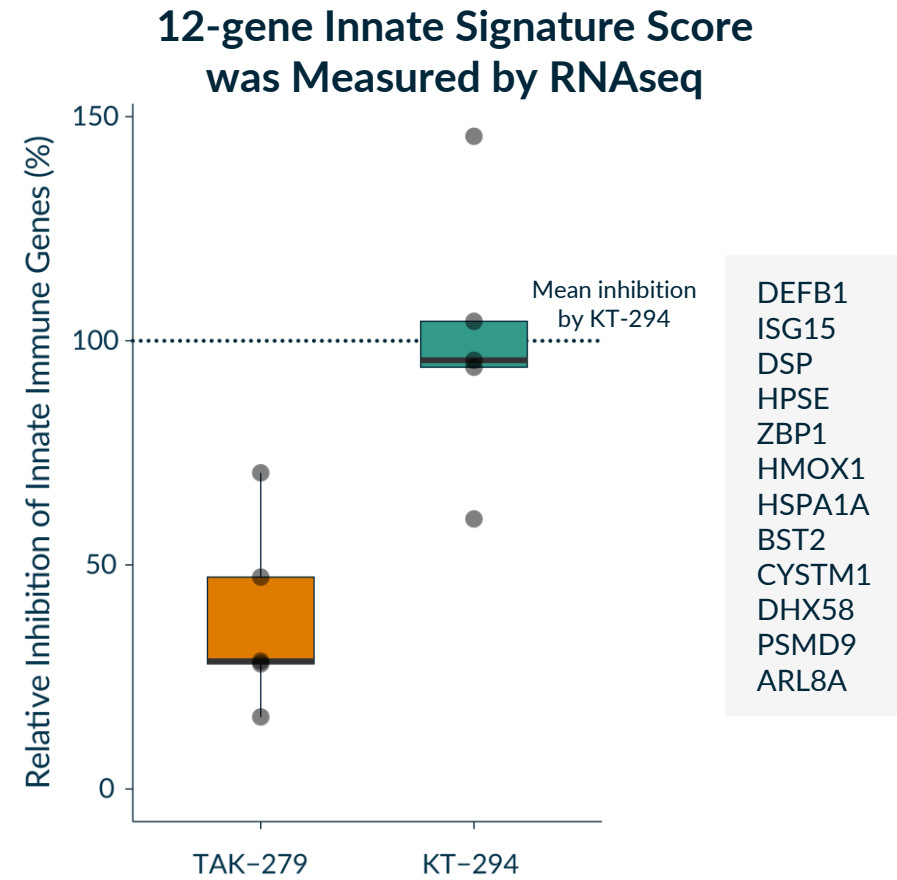
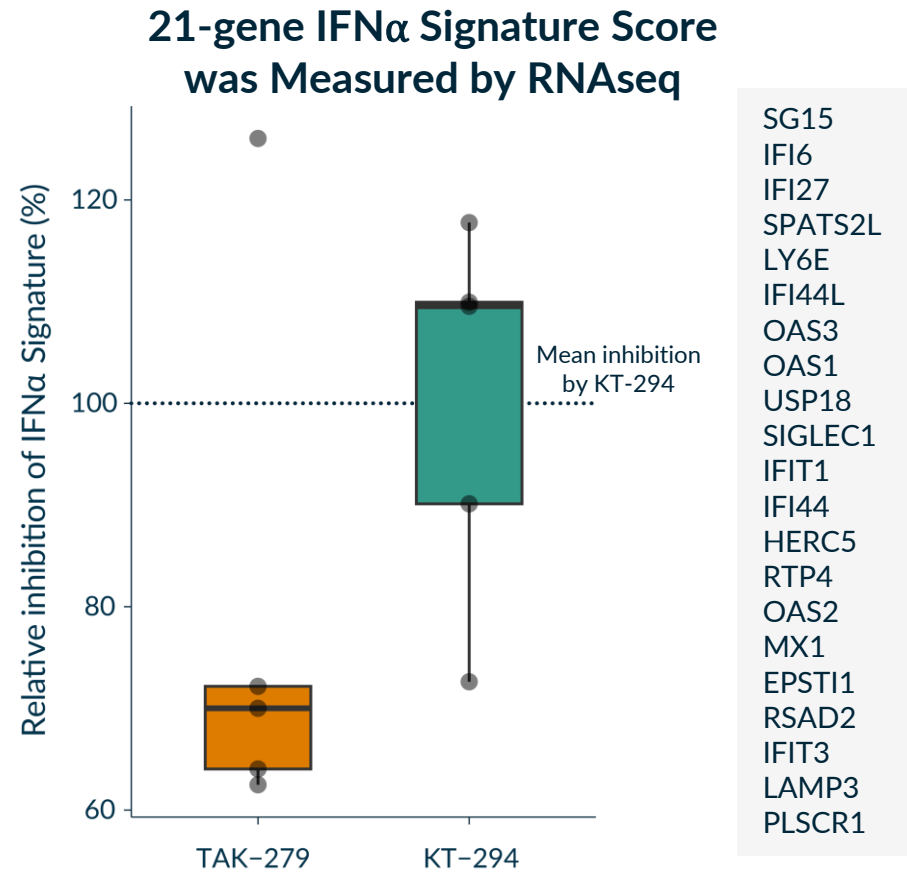
**Deucravacitinib Inhibited IL-10 Induced pSTAT3 in Human CD14 Monocyte**



**Deucravacitinib Inhibits IL-10's Function of Suppressing LPS Induced TNF-α Release in Human CD14 Monocyte**



# Superior Inhibition of Type I IFN Pathway and Innate Immunity by KT-294 vs TAK-279



## Doses Used:

- TAK-279 = 422nM (IFN $\alpha$  stimulated pSTAT2 IC<sub>95</sub>). Clinical exposure C<sub>max</sub> (free) at 35mg<sup>1</sup> = ~ 77 nM
- KT-294 = 56nM (IFN $\alpha$  stimulated pSTAT2 IC<sub>95</sub>)

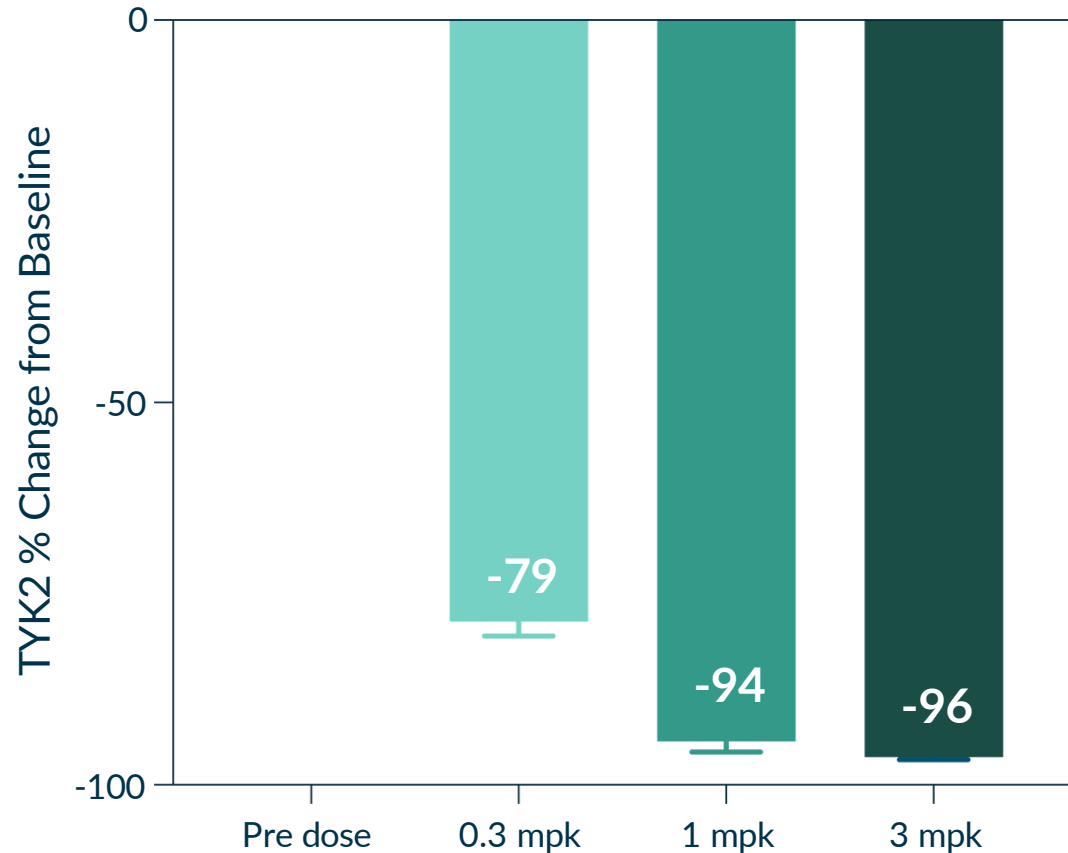
**At concentrations where TAK-279 and KT-294 block pathway 95%, degrader demonstrates superior biological effect. (TAK-279 does not reach these exposures in clinic)**

# KT-294 Achieved Dose Dependent Deep Degradation of TYK2 *in vivo* with Low Oral Doses

KT-294 potently degrades TYK2 across multiple preclinical species

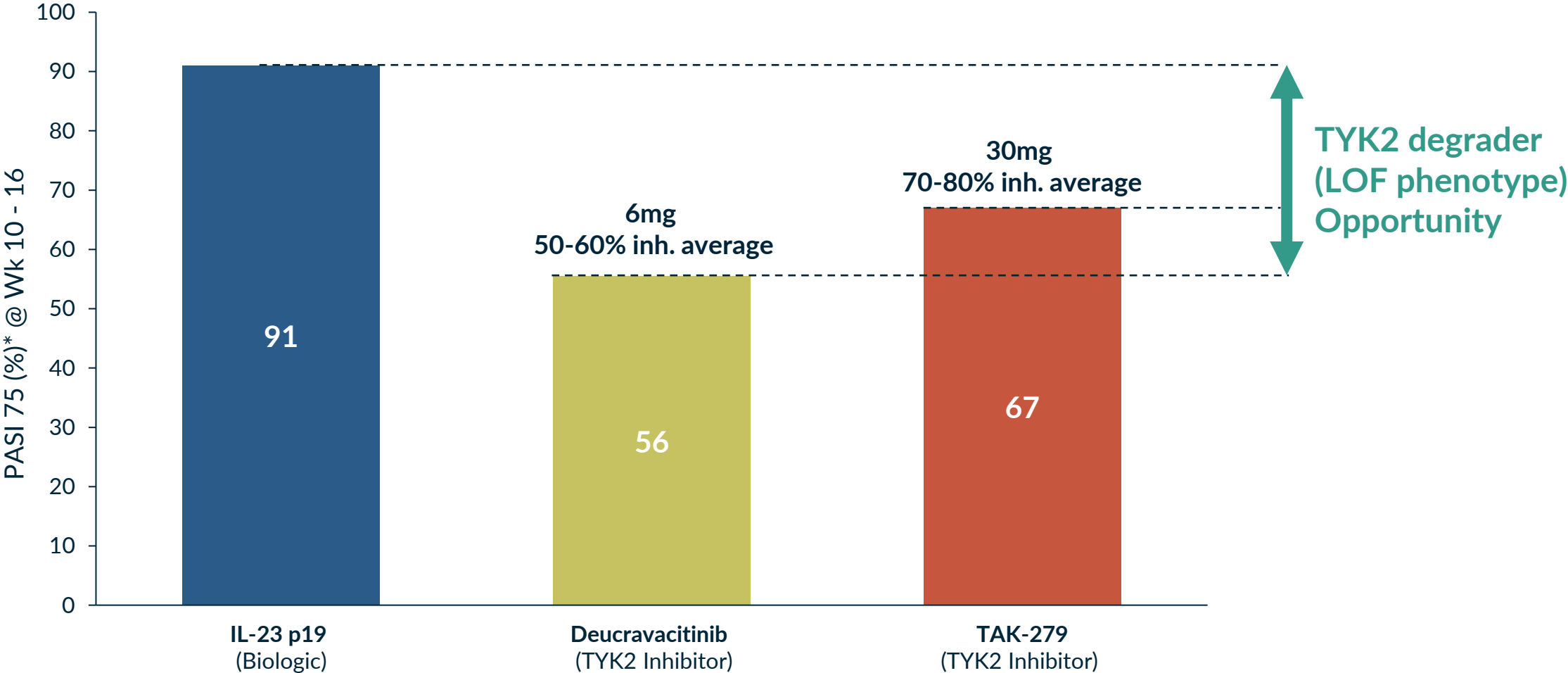
In NHP, KT-294 can degrade TYK2 to depletion with low oral doses

TYK2 Degradation in NHP Blood Post 7 days of KT-294 QD Oral Dosing



# TYK2 SMI's Do Not Reach Maximal Target Engagement

Clinical Efficacy In Psoriasis is Target Engagement Dependent



Company presentations and package inserts; \* total observed response rate for primary endpoint cut-off ranges from Wk 10 to Wk 16.

# Biological and Clinical Differentiation

TYK2 Clinical Opportunities	Deucravacitinib IL12/23, IFN, IL10	TAK-279 IL12/23, ~IFN	KT-294 IL12/23, IFN	<p><i>KT-294, unlike TYK2 SMI, can replicate the TYK2 deficient phenotype and result: potent Type I IFN, IL-12/23 inhibition fully while sparing IL-10</i></p> <p><b>WITH FOLLOWING EXPECTED CLINICAL DIFFERENTIATION:</b></p>
Psoriasis	++	++	+++	>90% degradation vs 70-80% inhibition at steady state (best anti-IL23 profile)
Psoriatic Arthritis	++	++	+++	>90% degradation vs 70-80% inhibition at steady state (best anti-IL23 profile)
IBD	-	++	+++	>90% degradation vs 70-80% inhibition at steady state (best anti-IL23 profile), + sparing IL-10
Lupus & interferonopathies	++	+	+++	>90% degradation vs 70-80% inhibition at steady state (best anti-IL23 profile) + best anti-IFN profile

# Oral TYK2 Degradator: KT-294

## Potential Best-in-Class Opportunity with Biologics-like Profile

### Validated Biology

TYK2 is a member of the JAK family required for Type I IFN, IL-12 and IL-23 cytokine signaling

Pathway validated by upstream biologics (i.e. ustekinumab) and TYK2 SMI across many diseases

TYK2 validated by human genetics

### Competitive Profile

IL-23 and Type 1 IFN-based biologic market currently ~\$18B annually

Estimated to grow to ~\$27B with expanded indications and new entrants

TYK2 SM inhibitors have limitations due to selectivity (deucravacitinib) or lack of potent IFN- $\alpha$  activity (TAK-279) and limited clinical target engagement (both)

Mega-blockbuster potential for oral degrader with biologics-like activity that is superior to TYK2 SMI



### FIH: 1H 2025

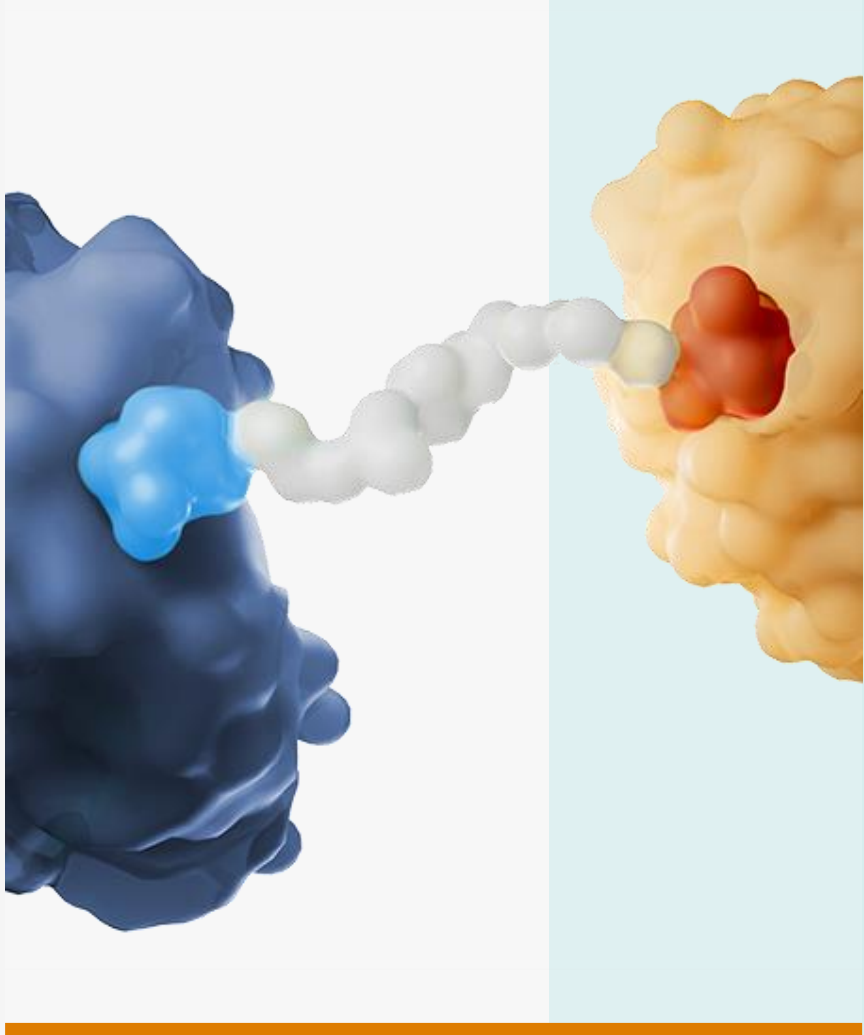
Degrades TYK2 in human cells with pM potency

Recapitulates the phenotype of TYK2 human deficiency showing potent IFN- $\alpha$ , IL-12 and IL-23 inhibition and sparing IL-10

Dosed orally, shows complete TYK2 degradation in NHP providing a path to full target engagement in clinic, unlike current SMI

Currently in IND enabling studies





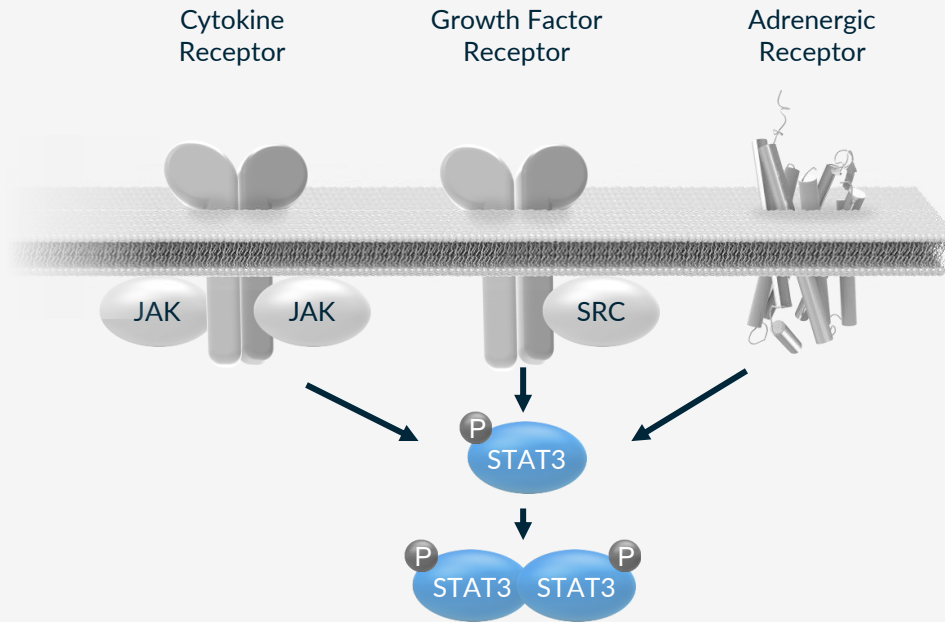
# Kymera's Oncology Pipeline

MDM2, STAT3

# Kymera Oncology Degradar Portfolio

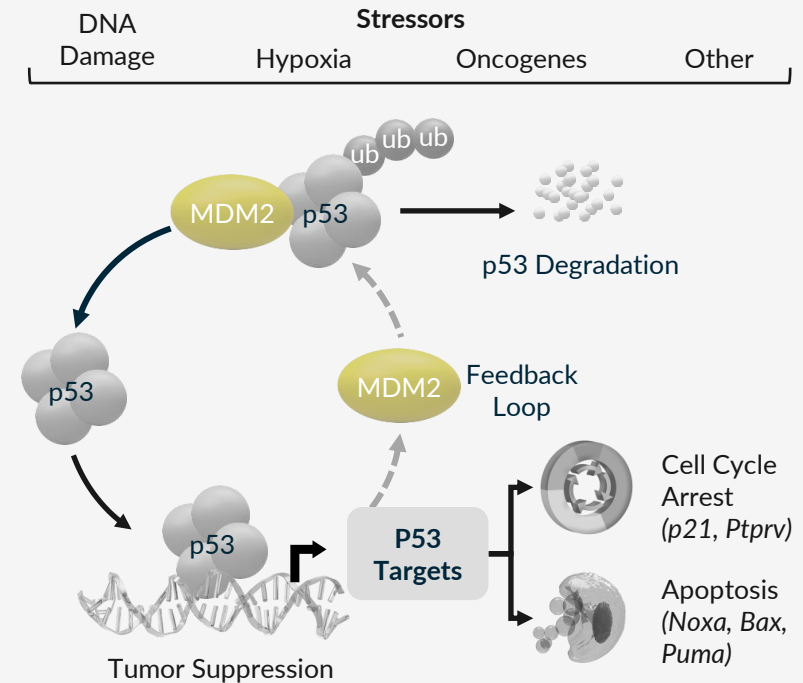
Targeting undrugged or poorly drugged targets in areas with large clinical and commercial impact, with focus on mechanisms that can address both liquid and solid tumors

## STAT3 TRANSCRIPTION FACTOR

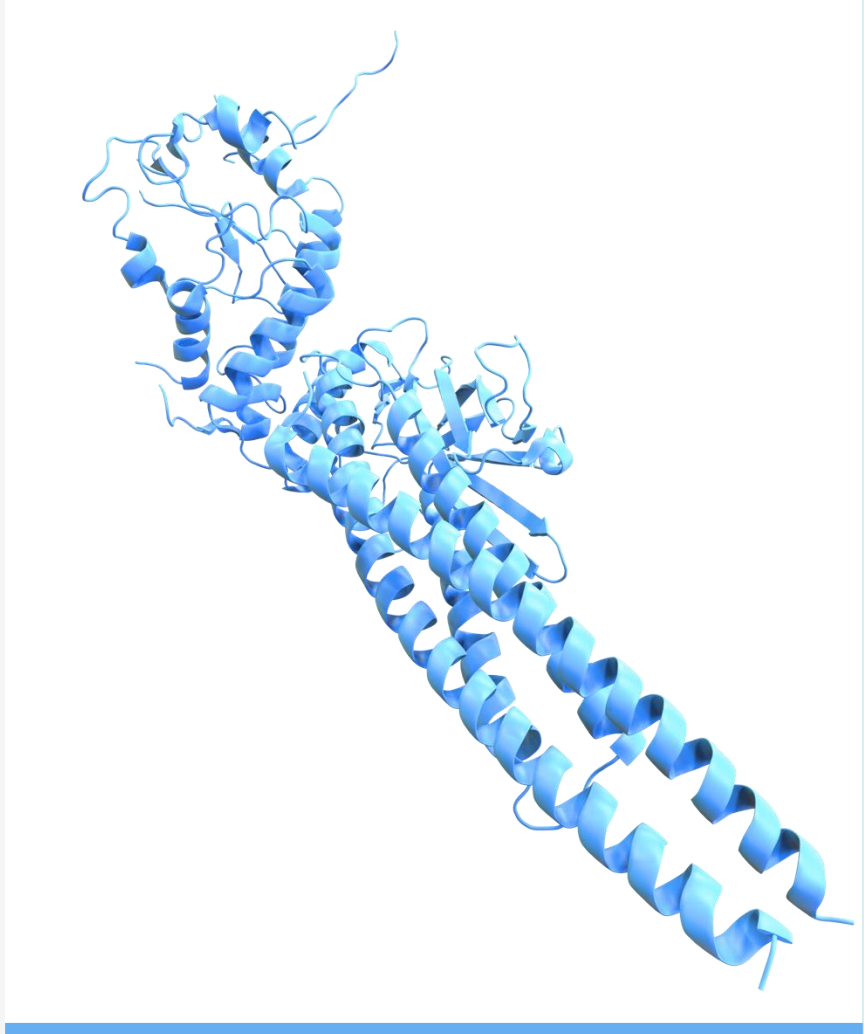


**STAT3** is a **traditionally undrugged transcription factor** within a clinically validated pathway with unique tumor cell intrinsic and extrinsic mechanisms

## MDM2 p53 MODULATOR



**MDM2** is a poorly drugged (by SMI) E3 ligase that modulates p53, the **largest tumor suppressor**



# First-in-Class STAT3 Degradation Program

# STAT3 Biology and Target Rationale

## Target Biology and Rationale

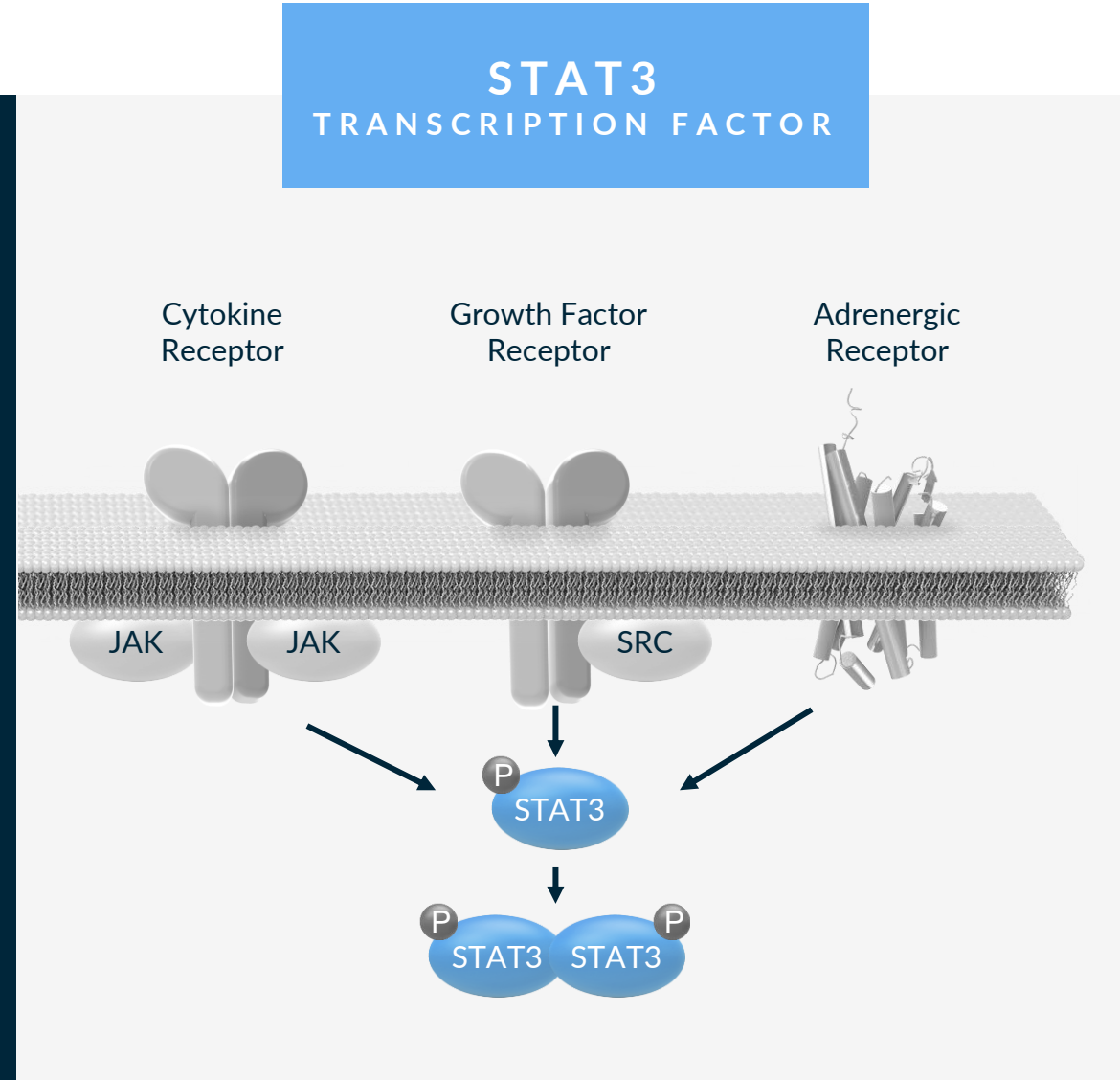
- STAT3 is a largely undrugged transcription factor activated through cytokine and growth factor receptors via JAKs and non-JAK mediated mechanisms
- STAT3 plays a role in tumor biology, evasion of immune surveillance and inflammation/fibrosis
- No known drugs selectively block STAT3 broadly across all relevant cell types or address both phosphorylation-dependent and -independent functions of STAT3

## Clinical Pathway Validation

- Multiple drugs approved that target upstream effectors signaling through STAT3 (ruxolitinib [JAK1/2], tocilizumab [IL-6R], belumosudil [ROCK-2])

## Human Genetics

- T cell lymphomas/leukemias responsive to JAK inhibition have STAT3 and/or JAK mutations and STAT3 pathway hyperactivation
- cHL responsive to anti-PD-1 and JAK inhibition has 9p24.1 JAK2/PD-L1/L2 amplicon and STAT3 activation



# STAT3 Has Unique Tumor Cell Intrinsic and Extrinsic Mechanisms

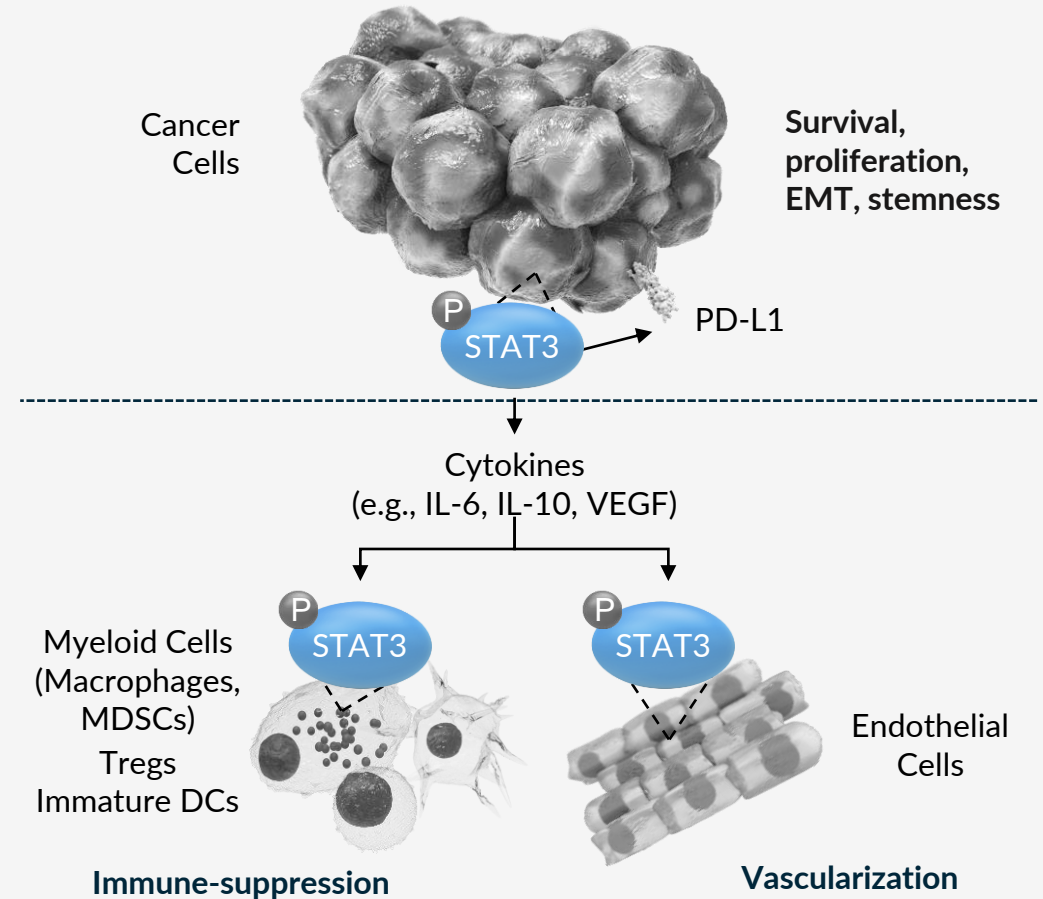
## Tumor Intrinsic

- Hyperactivation of STAT3 via dysfunctional receptor signaling or genomic aberrations lead to tumorigenic processes.
- Therapeutic opportunities lie in STAT3-dependent malignancies (e.g., T cell malignancies and cHL) & in mitigation of resistance mechanisms driven by STAT3 signaling (e.g., TKI; KRAS G12C resistance)

## Tumor Extrinsic

- STAT3 plays pivotal role in generation and maintenance of an immunosuppressive tumor microenvironment.
- Opportunities in anti-PD-1 sensitive tumors (e.g., cHL) and multiple heme and solid tumor indications poorly sensitive to immune checkpoint inhibitors that can be sensitized by TME remodeling (e.g., NSCLC with inactivating mutations in STK11, others)

## STAT3 TRANSCRIPTION FACTOR



# KT-333: First-in-Class STAT3 Degradator

## Multiple Monotherapy and Combination Development Opportunities in Liquid and Solid Tumors

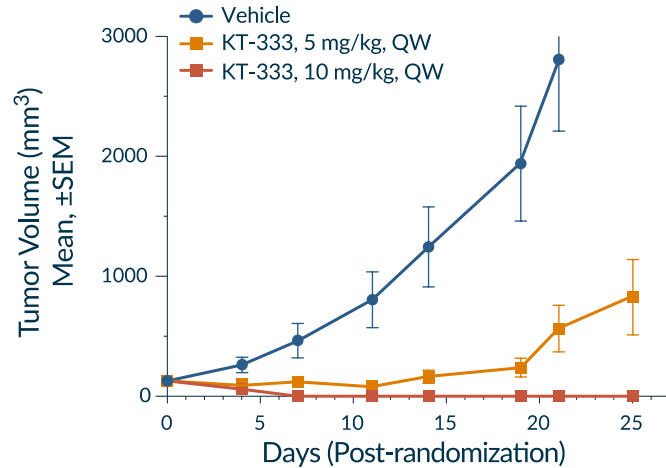
	Hematological Malignancies	Solid Tumors
Pre-Clinical	<ul style="list-style-type: none"> <li><b>Durable single agent antitumor activity</b> across multiple T-cell lymphoma models (ALCL and CTCL)</li> <li><b>PD-L1 and JAK2 overexpression in cHL</b> due to 9p24.1 amplicon with associated <b>high pSTAT3 expression</b></li> </ul>	<ul style="list-style-type: none"> <li><b>TME remodeling with induction of IFN-γ signature</b> in solid tumor models leading to <b>sensitization to anti-PD-1</b></li> </ul>
Clinical	<ul style="list-style-type: none"> <li>Antitumor activity in ongoing Phase 1a study in <b>cHL, CTCL and NK-Cell Lymphoma</b> with <b>multiple PRs/CRs</b></li> </ul>	<ul style="list-style-type: none"> <li><b>IFNγ signature response</b> in blood and tumor in ongoing Phase 1a study indicates <b>remodeling of TME</b></li> </ul>
Development Opportunities	<ul style="list-style-type: none"> <li><b>Monotherapy opportunities with accelerated registration path</b> across several high unmet need lymphoma indications</li> </ul>	<ul style="list-style-type: none"> <li>Opportunities in <b>combination with anti-PD-1</b> across different CPI-sensitive indications, and possible <b>monotherapy and combo opportunities in certain genotype-defined sensitive patient populations</b></li> </ul>

	U.S. Incidence	R.O.W. Incidence	Potential Patient Impact
Classical Hodgkin Lymphoma (cHL)	~8.8k	~11.4k	
Peripheral T-cell lymphoma (PTCL)	~3.6k	~4.5k	
Cutaneous T-cell lymphoma (CTCL)	~3.6k	~2.5k	
Large granular lymphocyte leukemia (LGL-L)	<1k	<1k	

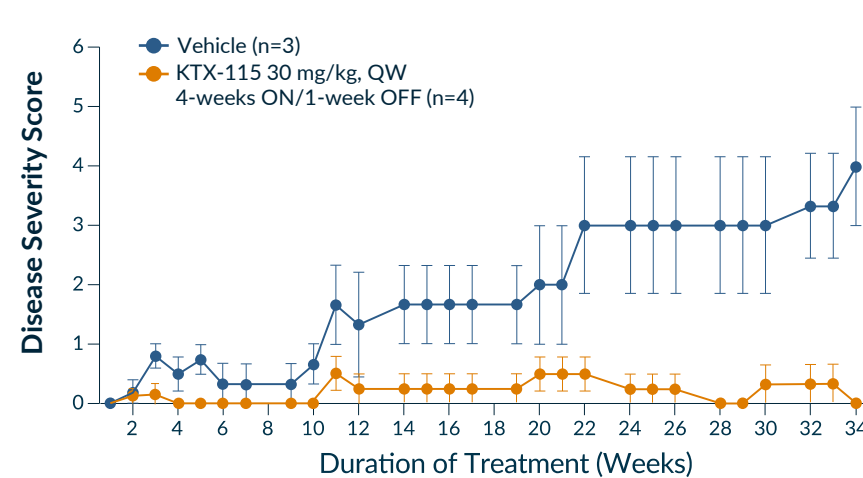
Sources: GlobalData, NORD. Note: R.O.W = France, Germany, Italy, Spain, UK, and Japan.



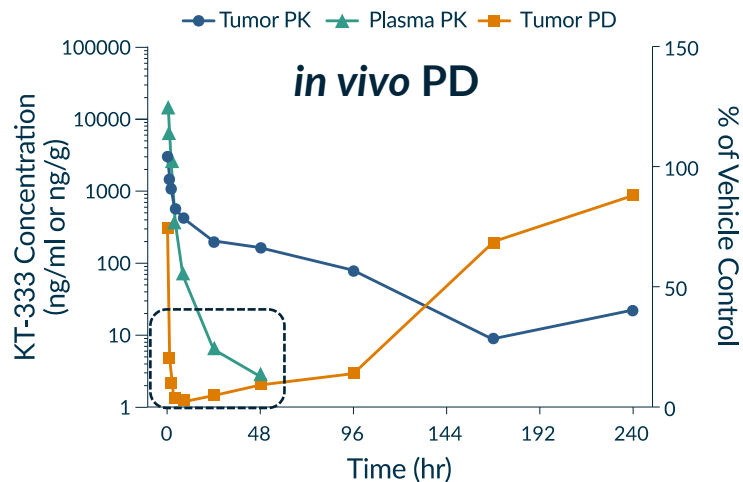
# Durable Antitumor Activity of STAT3 Degradation as a Single Agent in Preclinical Models of T cell Lymphoma



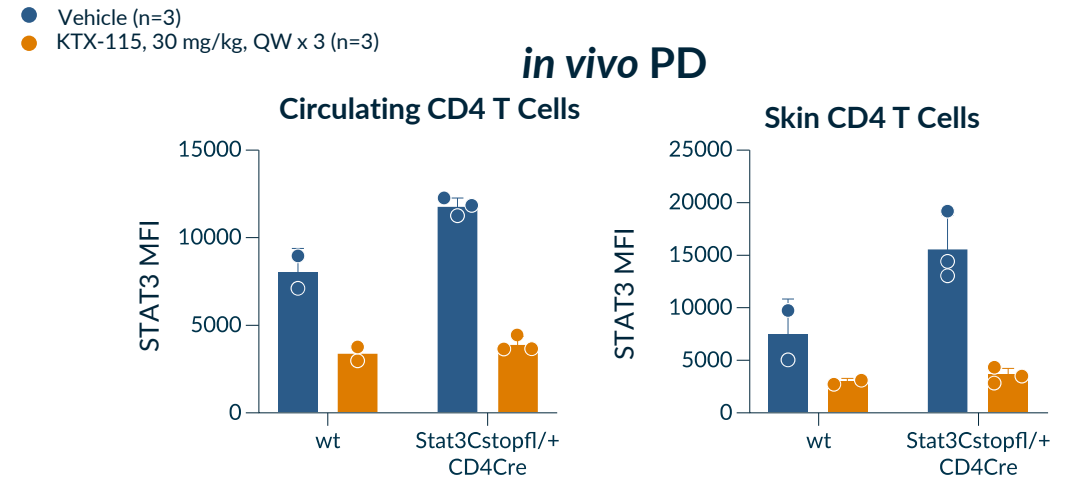
64th ASH<sup>®</sup>  
Annual Meeting  
and Exposition



Complete Tumor Regressions Associated with  $\geq 90\%$  STAT3 KD for ~48h Achieved with Intermittent Dosing of KT-333



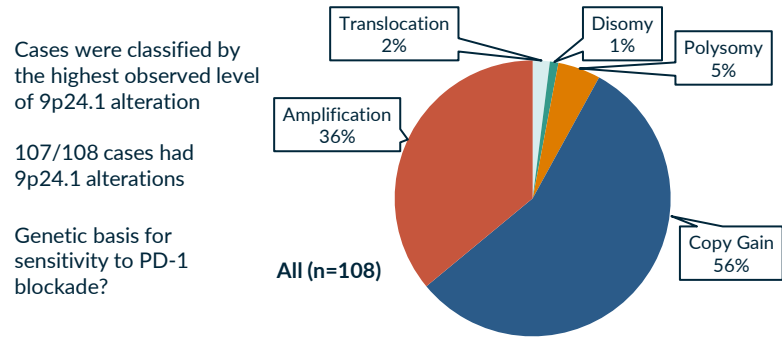
STAT3 Degradation Results in Disease Amelioration in a CTCL Preclinical Model with Potent Degradation of STAT3 in CD4+ T Cell-of-Origin



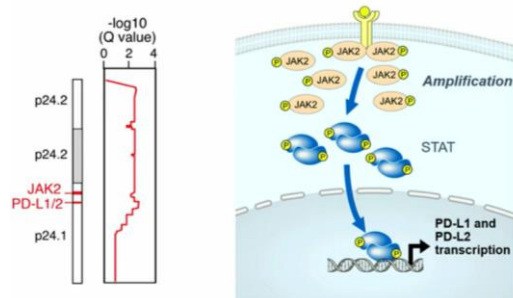
# Genetic and Clinical Validation for Targeting STAT3 in cHL

## Genetic Basis for Anti-PD-1 Activity in cHL

Chromosome 9p24.1/PD-L1/PD-L2 Copy Number Alterations a Defining Feature in Newly Diagnosed Hodgkin Lymphoma



## 9p24.1 Amplicon Block in CHL and PMBL

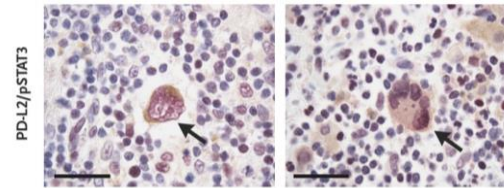


## PD-L1 and PD-L2 Copy Gain and Further Induction via JAK2/STAT Signaling

Green et al., *Blood* (2010)

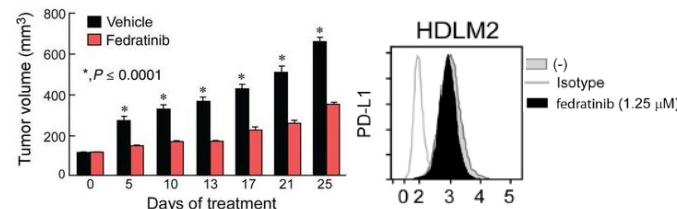
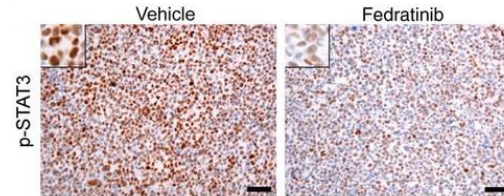
- Anti-PD-1 drugs nivolumab and pembrolizumab highly active and approved for R/R cHL

## STAT3 Activation in cHL and Impact of JAK-STAT Inhibition



Patient No.	Cytogenetic Alterations		IHC-positive HRS cells		Nuclear pSTAT3	EBER
	Polysomy 9p	PDL1/2 Gain	PD-L1	PD-L2		
1	+	-	+	+	+	-
2	+	-	+	+	+	-
3	+	-	+	+	+	-
4	+	+	+	+	+	-
5	+	+	+	+	+	-
6	+	+	+	+	+	+
7	+	+	+	+	+	-
8	+	+	+	+	+	-
9	-	+	+	+	+	-
10	-	-	+	+	+	-

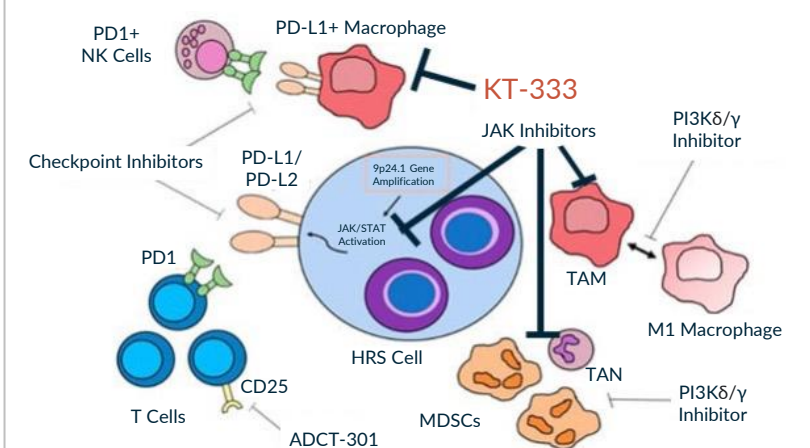
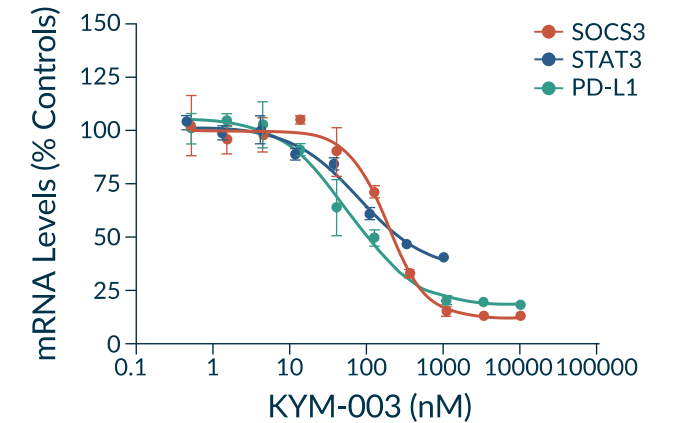
Ansell et al. *NEJM* (2015)



Hao et al., *Clin Cancer Res* (2014)

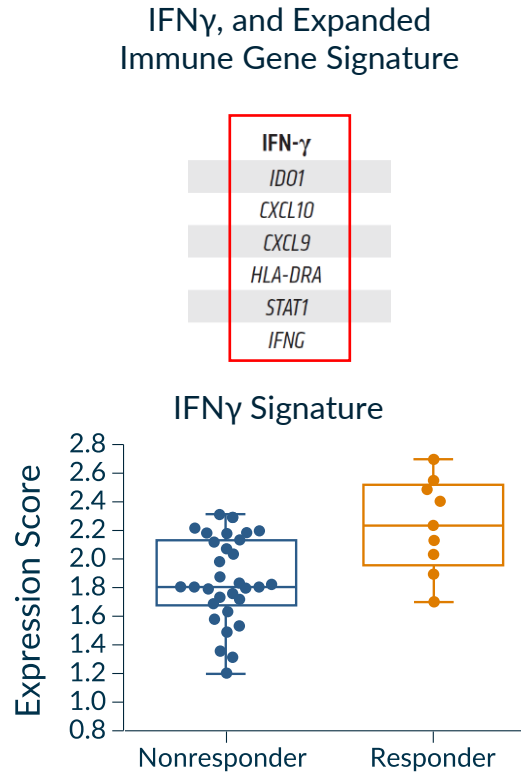
## STAT3 Degradation: Potential to Impact JAK-STAT and PD-L1/L2 Pathways

### PD-L1 Downregulation by STAT3 Degradation

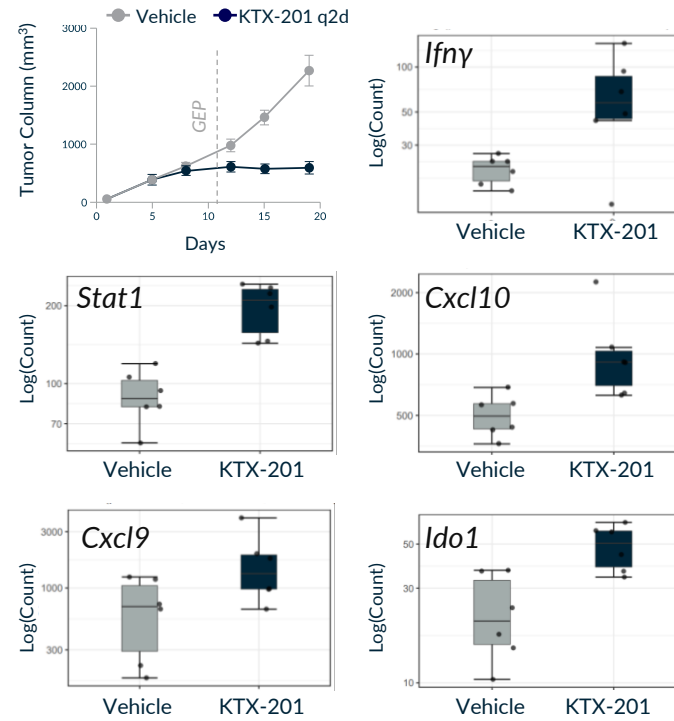


# STAT3 Degradation Elicits an IFN $\gamma$ Gene Signature in TME and Sensitizes Solid Tumor Mouse Models to PD-1 Inhibition

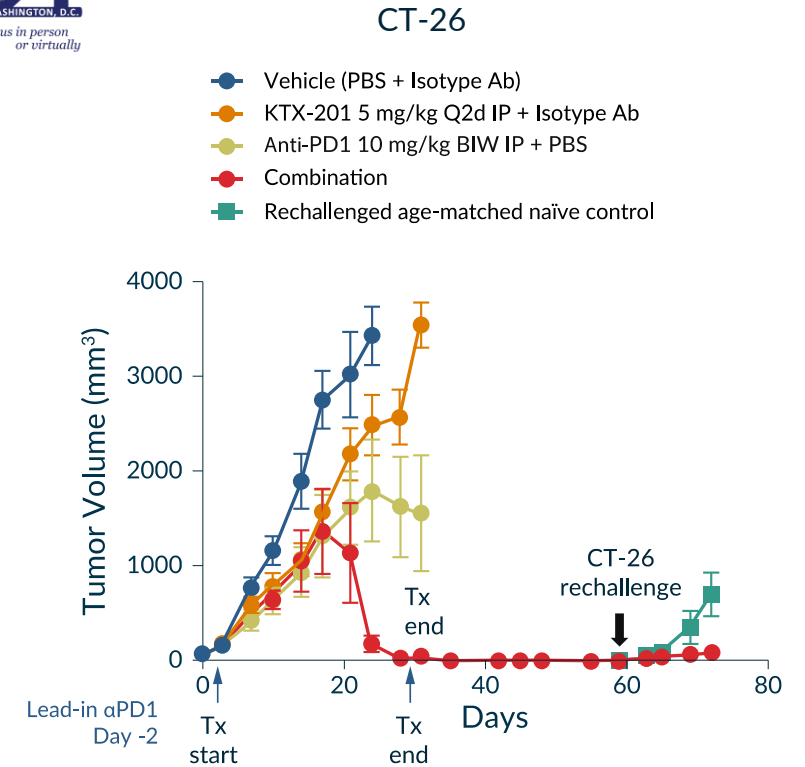
IFN $\gamma$  mRNA Signature Predictive of Clinical Responses to Anti-PD-1 (Pembrolizumab)



IFN $\gamma$  mRNA Signature in TME Elicited by STAT3 Degradation in CT-26 Preclinical Model

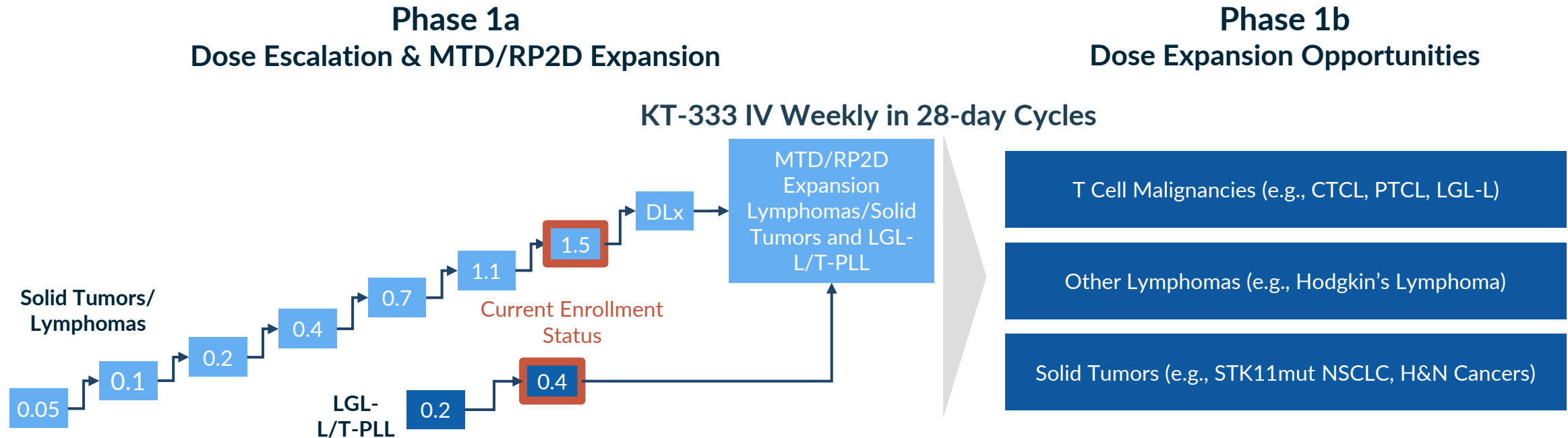


STAT3 Degradation Sensitizes CT-26 Model to Anti-PD-1 via Activation of Antitumor Immunity



# KT-333: Phase 1, Multicenter, Dose-Escalation and Expansion Trial to Evaluate KT-333

Adult Patients with Lymphomas, Leukemias and Solid Tumors



Key Objectives	Phase 1a	Phase 1b
<b>Primary</b>	<ul style="list-style-type: none"> <li>Safety/Tolerability and MTD and RP2D</li> </ul>	<ul style="list-style-type: none"> <li>Safety/Tolerability at RP2D in Patients with Lymphoma/Leukemia and Solid Tumors</li> </ul>
<b>Secondary</b>	<ul style="list-style-type: none"> <li>PK Parameters of KT-333</li> <li>Preliminary Estimates of Activity</li> </ul>	<ul style="list-style-type: none"> <li>Preliminary Clinical Activity (ORR, DoR, PFS, DCR, OS)</li> <li>PK Parameters of KT-333</li> </ul>
<b>Exploratory</b>	<ul style="list-style-type: none"> <li>PD Effects of KT-333</li> </ul>	<ul style="list-style-type: none"> <li>PD Effects of KT-333</li> </ul>

MTD: Maximum Tolerated Dose. RP2D: Recommended Phase 2 Dose. ORR: Overall Response Rate

# Phase 1a Enrollment

	Dose Level 1 0.05 mg/kg (n=4)	Dose Level 2 0.1 mg/kg (n=4)	Dose Level 3 0.2 mg/kg (n=8)	Dose Level 4 0.4 mg/kg (n=14)	Dose Level 5 0.7 mg/kg (n=8)	Dose Level 6 1.1 mg/kg (n=6)	Dose Level 7 1.5 mg/kg (n=3)	Overall (N=47)
<b>Age (years)</b>								
Median (min, max)	64.5 (57, 70)	63.5 (59, 74)	70.5 (40, 76)	63.5 (42, 81)	66.0 (30, 75)	45.5 (24, 73)	61.0 (50, 65)	65.0 (24, 81)
<b>Sex (n, (%))</b>								
Male	3 (75.0)	1 (25.0)	4 (50.0)	12 (85.7)	6 (75.0)	2 (33.3)	-	28 (59.6)
<b>ECOG</b>								
0	1 (25.0)	-	4 (50.0)	5 (35.7)	4 (50.0)	4 (66.7)	1 (33.3)	19 (40.4)
1	3 (75.0)	4 (100)	4 (50.0)	9 (64.3)	4 (50.0)	1 (16.7)	2 (66.7)	27 (57.4)
2	-	-	-	-	-	1 (16.7)	-	1 (2.1)
<b>Prior Systemic Therapy Regimens</b>								
≥4	2 (50.0)	4 (100.0)	5 (62.5)	7 (50.0)	3 (37.5)	4 (66.7)	2 (66.7)	26 (55.3)
<b>Tumor Type</b>								
Solid Tumor <sup>‡</sup>	3 (75.0)	2 (50.0)	5 (62.5)	7 (50.0)	3 (37.5)	-	1 (33.3)	21 (44.7)
CTCL	1 (25.0)	1 (25.0)	-	3 (21.4)	2 (25.0)	4 (66.7)	-	11 (23.4)
T-Cell LGL-L	-	-	2 (25.0)	-	2 (25.0)	-	-	4 (8.5)
Hodgkin's	-	-	-	2 (14.3)	-	2 (33.3)	-	4 (8.5)
PTCL	-	1 (25.0)	-	1 (7.1)	-	-	1 (33.3)	3 (6.4)
T-PLL	-	-	1 (12.5)	1 (7.1)	-	-	-	2 (4.3)
NK-Cell Lymphoma	-	-	-	-	-	-	1 (33.3)	1 (2.1)
B-Cell Lymphoma	-	-	-	-	1 (12.5)	-	-	1 (2.1)

- As of June 3, 2024, 47 patients enrolled across Dose levels 1-7 (0.05–1.5 mg/kg)
- Patients with leukemias (T-cell LGL and T-PLL) are evaluated with leukemia-specific DLT criteria and separated out into separate dose escalation based on DLTs observed during dose escalation

<sup>‡</sup> = colorectal (4); head and neck (3); pancreatic (2); anal; appendiceal; cervical; cholangiocarcinoma; colon adenocarcinoma; duodenal; endometrial; gallbladder; ovarian, peritoneal, rectal and renal (n=1 each)

# KT-333 Safety Summary: DL1-7

Data cut-off date of June 3, 2024

- Overall, KT-333 well-tolerated with primarily Grade 1-2 AEs
- Most common AEs related to KT-333 in >10% of all patients (n=47):
  - Stomatitis (38%)
  - Fatigue (17%)
- Related Grade 3 AEs were stomatitis, n=2; arthralgia, n=1; fatigue, n=1; weight decreased, n=1 (there were no >Grade 3\* AEs considered related to KT-333)
- Related SAEs were Grade 2 pyrexia (n=1) in a patient with NK-Cell lymphoma and Grade 3 stomatitis in a patient with LGL-L (was also a DLT)
- Two DLTs observed in LGL-L patients, Grade 3 stomatitis and arthralgia, at DL5; one DLT observed in a lymphoma patient, Grade 3 fatigue, at DL7

\* Two Grade 4 events were observed: DL4: CTCL patient with Grade 4 Toxic epidermal necrolysis and an LGL-L patient in DL5 with Grade 4 Neutropenia, both considered not related to KT-333. No Grade 5 events.

# Responses Observed Across Multiple Tumor Types During Dose Escalation of KT-333

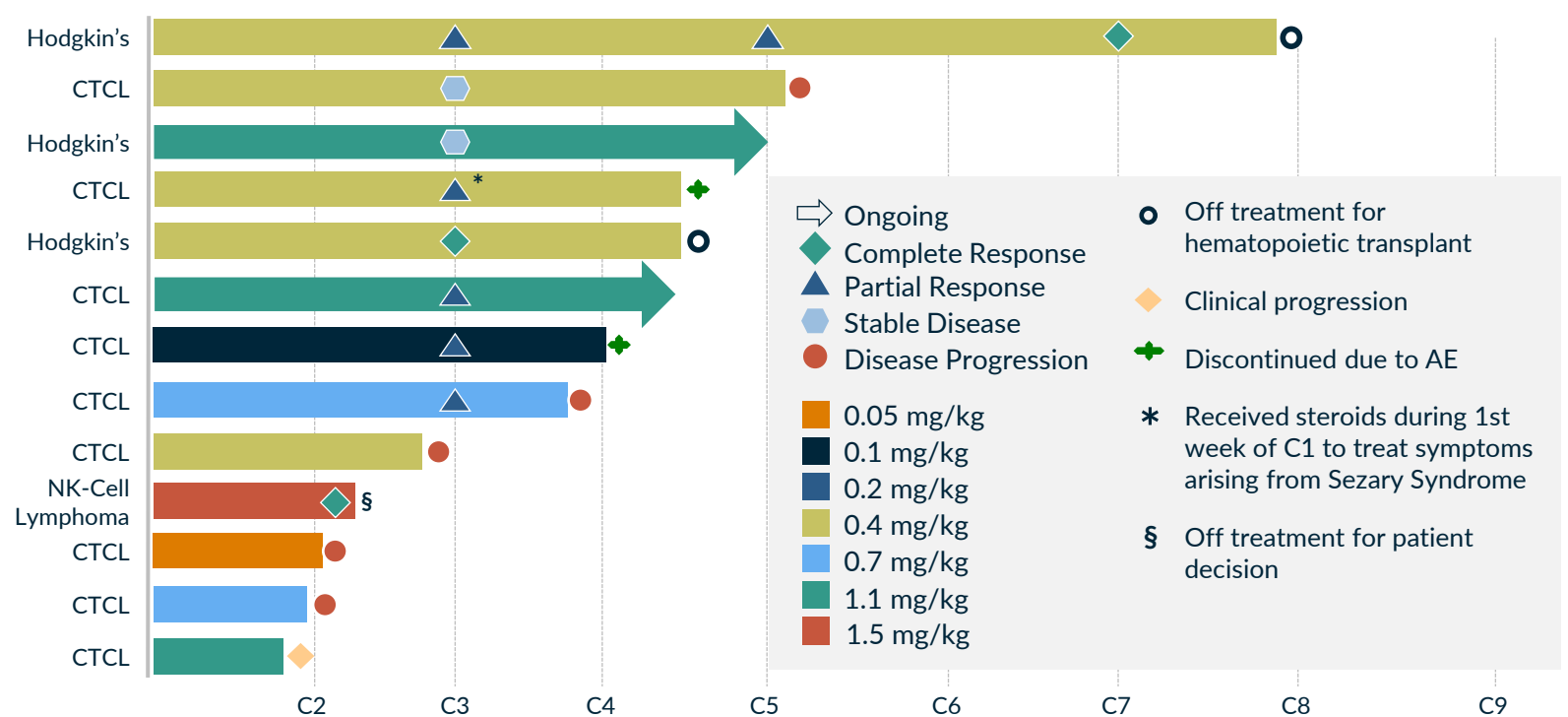
Data cut-off date of June 3, 2024

## Clinical Responses

	Best Overall Response <sup>1</sup>				
	Hodgkin's Lymphoma (n=3)	NK-Cell Lymphoma (n=1)	CTCL <sup>3</sup> (n=9)	Solid Tumor (n=14)	Other Hematologic Malignancies <sup>4</sup> (n=5)
Complete Response	2	1 <sup>2</sup>	-	-	-
Partial Response	-	-	4	-	-
Stable Disease	1	-	1	4	-
Progressive Disease	-	-	4 <sup>5</sup>	10	5

<sup>1</sup>The patient totals listed above represent the number of patients enrolled that were disease evaluable for response assessment at the time of cut-off; <sup>2</sup>PET-CR; <sup>3</sup>Cutaneous T-Cell lymphoma; <sup>4</sup>Includes two patients with peripheral T-Cell lymphoma and one each of B-Cell NHL, LGL-L and T-PLL; <sup>5</sup>Includes one patient with clinical progression

## Duration of Time on Treatment: Disease Evaluable CTCL, Hodgkin's and NK-Cell Lymphoma Patients

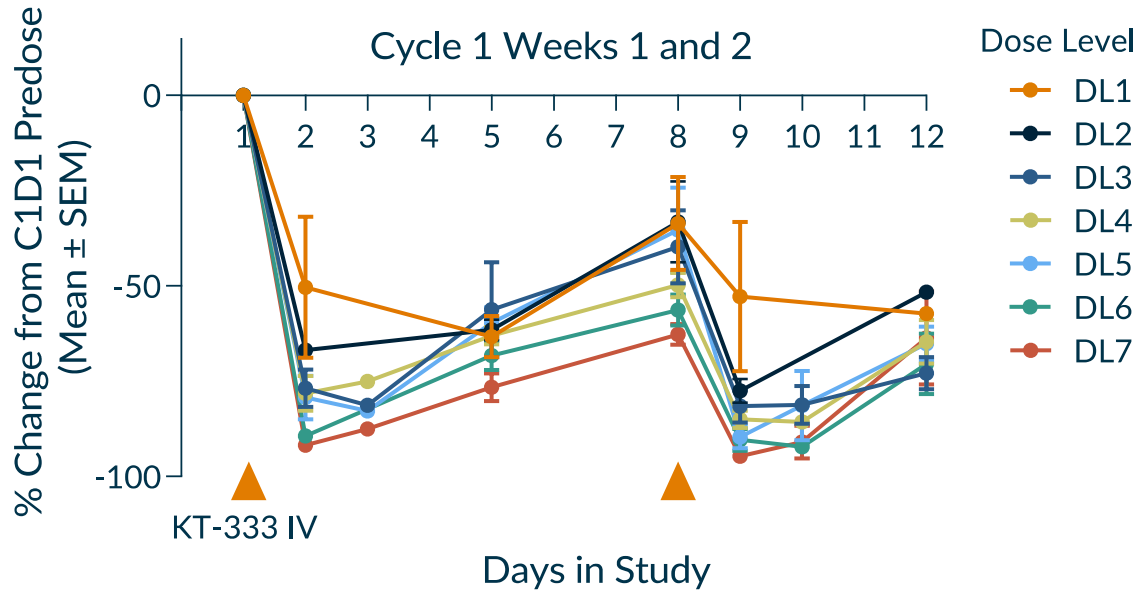


Antitumor activity observed across multiple hematological malignancies, including complete responses in two patients with Hodgkin's lymphoma moving to potentially curative stem cell transplants after treatment



# Robust STAT3 Degradation in PBMCs

## Timecourse of STAT3 Degradation in PBMCs

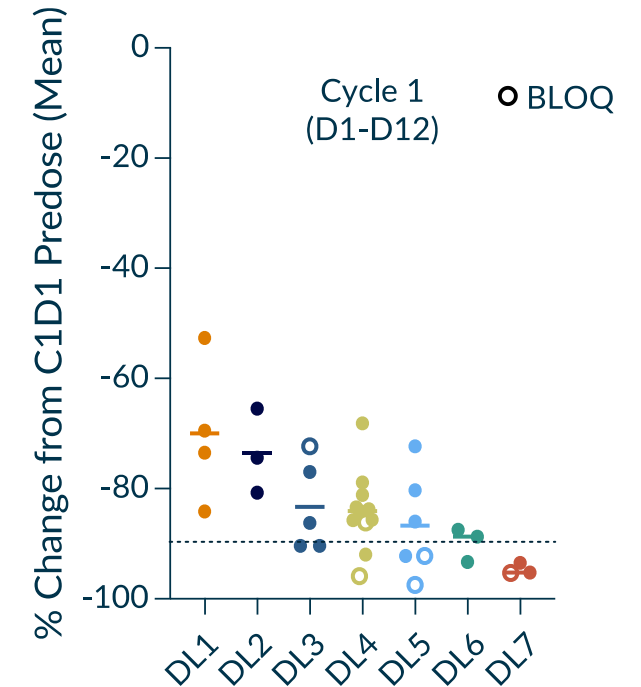


## Maximum Degradation of STAT3 in PBMCs

Dose Level	Per Cohort (min, max; n)
0.05 mg/kg	Cycle 1 D1-D12 -69.9% (-52.6%, -84.1%; 4)
0.1 mg/kg	-73.5% (-65.5%, -80.7%; 3)
0.2 mg/kg	-83.3% (-72.3%*, -90.4%; 5)
0.4 mg/kg	-84.0% (-68.1%, -95.9%*, 11)
0.7 mg/kg	-86.8% (-72.3%, -97.5%*, 6)
1.1 mg/kg	-89.8% (-87.5%, -93.3%; 3)
1.5 mg/kg	-94.7% (-93.5%, -95.3%*, 3)

\*BLOQ

## Per Patient (min, max; n)

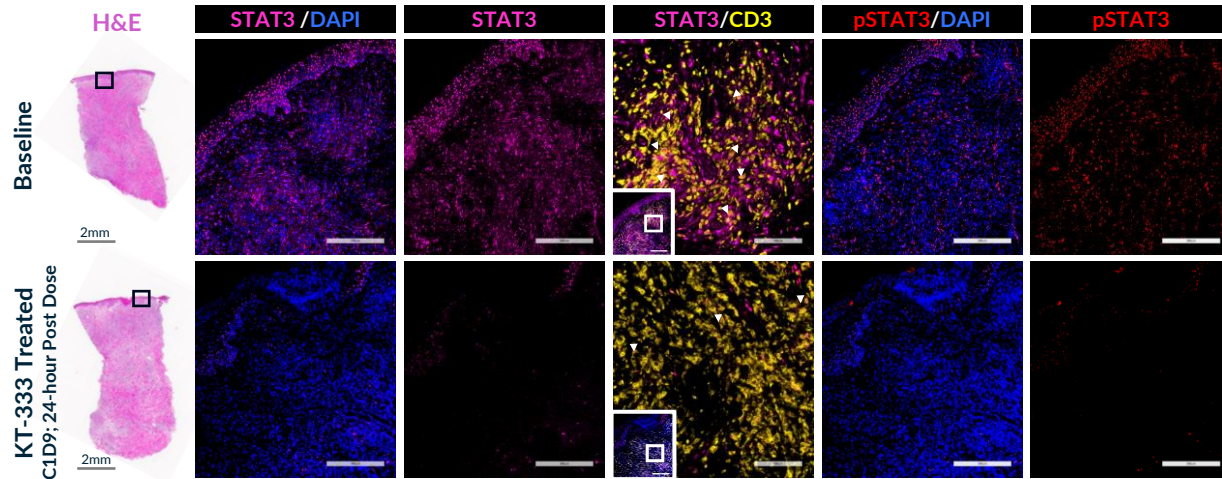


Maximum STAT3 Degradation was > 90% in 9 Patients in Cycle 1 of DL3 through DL7

- Strong proof-of-mechanism demonstrated for KT-333 with up to 95% mean maximum degradation of STAT3 in PBMCs at DL7

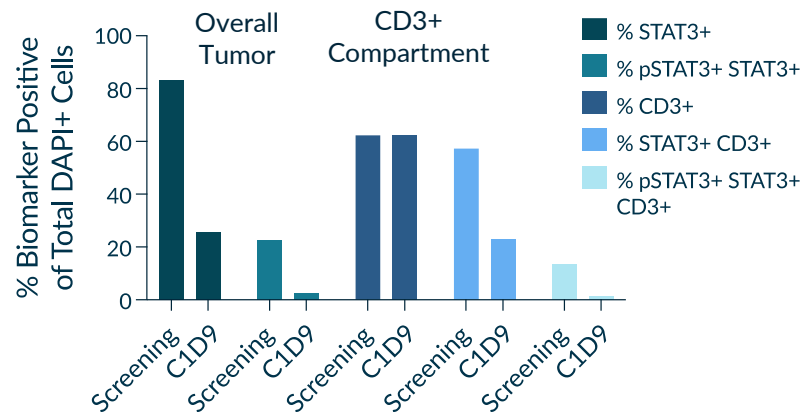
# Robust STAT3 Knockdown and Induction of Antitumor IFN- $\gamma$ Response in Tumor Biopsies

## KT-333 Leads to Marked Reductions in STAT3, pSTAT3 in Tumor Tissue from a CTCL Patient

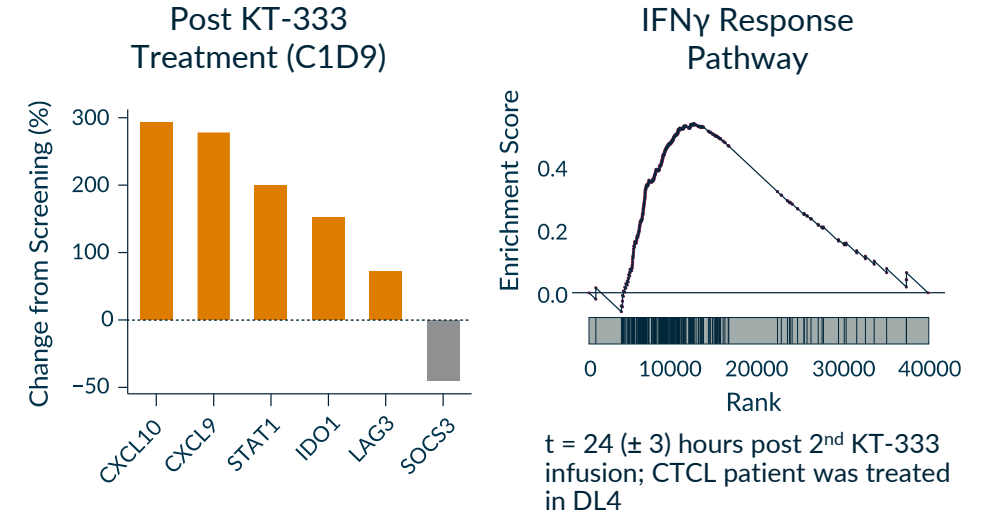


## STAT3 and pSTAT3 % Positive Cells are Reduced

- 69% & 87% respectively in the post treatment tumor biopsy compared to screening



## KT-333 Leads to Induction of IFN $\gamma$ Pathway Response and Downregulation of SOCS3 in a CTCL Tumor



- KT-333 resulted in robust reduction of STAT3 and pSTAT3 expression by 69% and 87% in a CTCL tumor biopsy in DL4
- Induction of IFN- $\gamma$  signature in tumor by KT-333 consistent with preclinical findings where effect in syngeneic solid tumor model associated with enhanced response to anti-PD-1

# STAT3 Degradator: KT-333

First-in-class opportunity to address STAT3 driven pathology across broad indications



## Recent Clinical Data\*

Strong PD effect in blood with mean maximum STAT3 degradation of 90-95% at DL6-7 and maximum degradation up to 98%

STAT3 and pSTAT3 positive cells reduced by 69% and 87% in tumor at DL4; IFN- $\gamma$  response observed in tumor and blood

KT-333 safe and well-tolerated at top dose levels in lymphomas and solid tumors

CRs achieved in 2 of 3 cHL patients who progressed after prior BV and CPI enabling HSCT in both

PRs achieved in 4 of 9 CTCL patients; CR in STAT3<sup>mut</sup> NK-Cell Lymphoma

\*As of June 3, 2024, data cut-off date.

## Significant Opportunity

Activity in cHL identifies potential 3L monotherapy and 2L anti-PD1 combination development pathways

CTCL activity shows potential in R/R disease that could be further enhanced through combinations

Response in STAT3<sup>mut</sup> lymphoma further highlights potential in pts with STAT3 pathway hyperactivation

Opportunity for expansion into solid tumors in combination with immune checkpoint inhibitors (e.g., anti-PD1) and targeted therapy (e.g., KRAS inhibitors)

## Complete Recruitment & Phase 1 Data: 2H24

Completion of enrollment in the Phase 1a dose escalation study and data set to be shared in the second half of 2024, with remaining enrollment focused on cHL

Evaluate next steps including potential Ph1b expansions in cHL and CTCL and evaluation of anti-PD1 combination in cHL

Explore opportunities for evaluation of combination with anti-PD1 in solid tumors



# First-in-Class MDM2 Degradator Program

# MDM2 Biology and Target Rationale

## Target Biology and Rationale

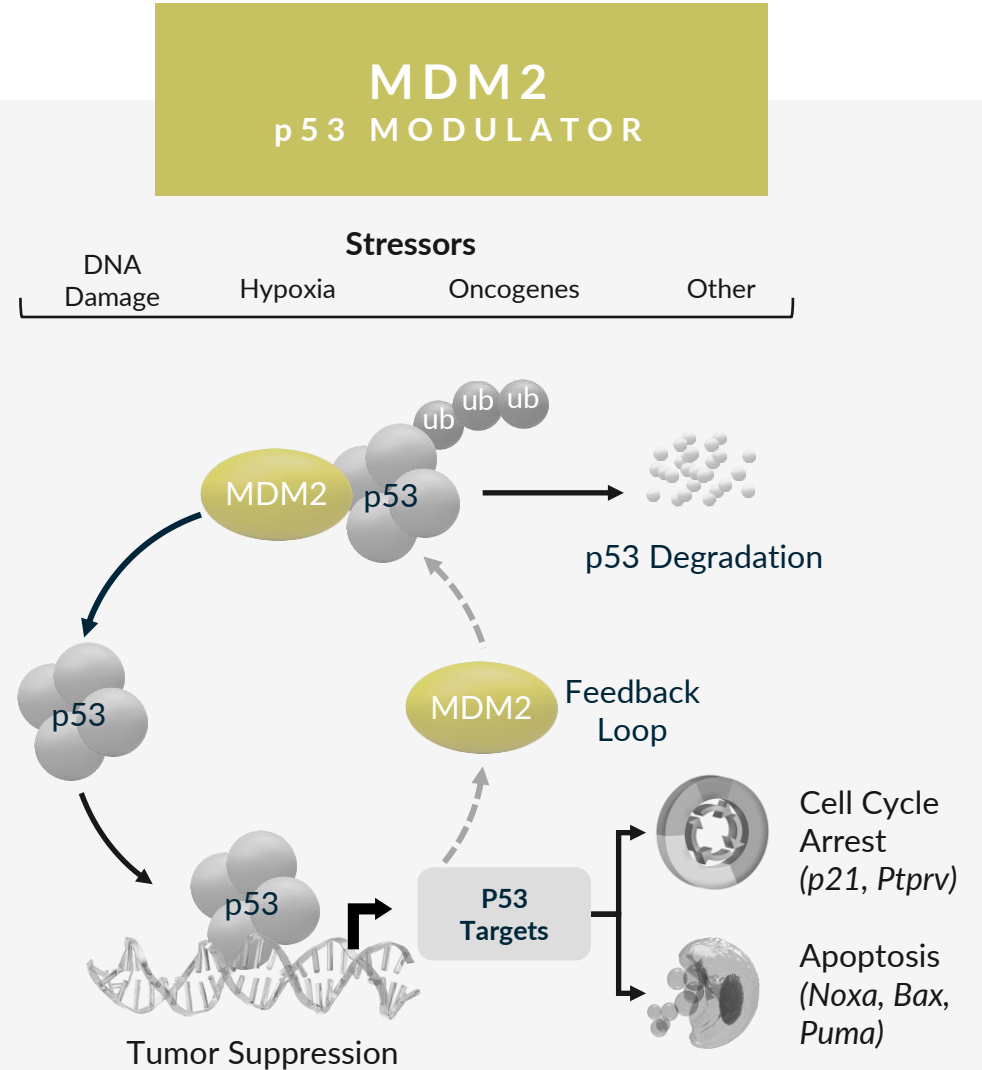
- MDM2 is the E3 ligase that modulates p53, the largest tumor suppressor
- MDM2 overexpression and amplification can inactivate p53 in the 50% of tumors that are p53 WT
- Activity of small molecule inhibitors of MDM2 limited by p53-MDM2 feedback loop that interferes with pharmacologic effect of SMIs

## Clinical Pathway Validation

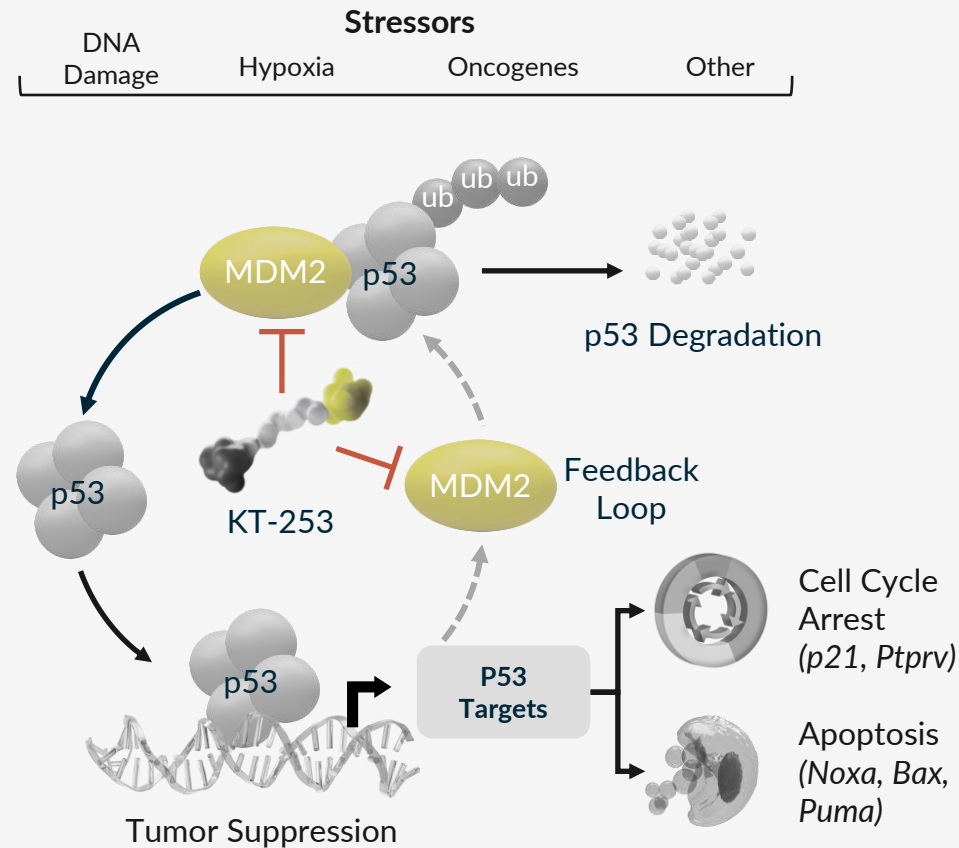
- MDM2 SMIs have demonstrated p53 pathway activation (e.g. plasma GDF-15 elevation) and modest monotherapy clinical activity in AML as well as activity in Merkel Cell Carcinoma and Myelofibrosis

## Human Cancer Genetics

- DepMap demonstrated MDM2 dependency across multiple p53 WT cell lines
- MDM2 degradation has potential to phenocopy impact of genetic deletion in p53 WT tumors



# MDM2 Degradation Advantage



- Unlike small molecule inhibitors, degraders remove the protein, which can overcome the p53-dependent feedback loop that upregulates MDM2 production, enabling an acute apoptotic response
- Induction of acute apoptotic response in tumors allows time for recovery of normal cells and an increase TI vs SMI
- Emerging gene signature of sensitivity to MDM2 degrader mechanism to be leveraged to prospectively select patients in Phase 1b and beyond



# KT-253: Potential Best-in-Class p53 Stabilizer

## Potential to Treat Numerous p53WT Tumors

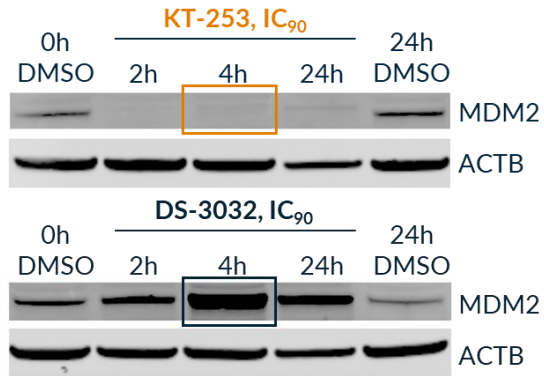
	Hematological Malignancies	Solid Tumors															
<b>Pre-Clinical</b>	<ul style="list-style-type: none"> <li>As monotherapy, <b>robust responses in AML/ALL models</b>, including venetoclax-resistant AML, and <b>strong combinatorial effect seen with venetoclax</b> in venetoclax-resistant AML models</li> </ul>	<ul style="list-style-type: none"> <li><b>Preclinical activity across variety of solid tumors</b>, including Merkel cell carcinoma (MCC), pediatric tumors and subsets of common adult tumors</li> <li><b>Gene signature of sensitivity</b> to degrader mechanism emerging from adult solid tumor models</li> </ul>															
<b>Clinical</b>	<ul style="list-style-type: none"> <li>Recently initiated AML enrollment with early evidence of p53 pathway activation</li> </ul>	<ul style="list-style-type: none"> <li><b>PR in MCC patient at DL1</b> in ongoing Phase 1a study shows translation of preclinical sensitivity to the clinic</li> </ul>															
<b>Development Opportunities</b>	<ul style="list-style-type: none"> <li>Monotherapy and combination opportunities in <b>AML</b>, and potential opportunities across <b>Myelofibrosis, MDS, ALL and TP53<sup>WT</sup> lymphomas</b></li> </ul>	<ul style="list-style-type: none"> <li>As monotherapy across a <b>subset of adult and pediatric solid tumors</b>, to be <b>informed by emerging gene signature</b> with potential for tumor agnostic development path</li> </ul>															
		<b>Potential Patient Impact</b>															
		Solid Tumors															
		Subsets of various p53 functional adult solid tumors ( <b>melanoma, colorectal, lung, gastric, breast</b> ) selected based on emerging gene signature of sensitivity, and majority of <b>Merkel cell carcinoma, rhabdomyosarcoma, neuroblastoma, Ewing sarcoma</b>															
	<table border="1"> <thead> <tr> <th></th> <th>U.S.</th> <th>R.O.W.</th> </tr> <tr> <th></th> <th>Incidence</th> <th>Incidence</th> </tr> </thead> <tbody> <tr> <td>Acute Myeloid Leukemia (AML)</td> <td style="background-color: #c8d63f;">~21k</td> <td style="background-color: #c8d63f;">~21k</td> </tr> <tr> <td>Myelodysplastic Syndromes (MDS)</td> <td style="background-color: #c8d63f;">~41k</td> <td style="background-color: #c8d63f;">~58k</td> </tr> <tr> <td>Myelofibrosis (MF)</td> <td style="background-color: #c8d63f;">~2k</td> <td style="background-color: #c8d63f;">~3k</td> </tr> </tbody> </table>		U.S.	R.O.W.		Incidence	Incidence	Acute Myeloid Leukemia (AML)	~21k	~21k	Myelodysplastic Syndromes (MDS)	~41k	~58k	Myelofibrosis (MF)	~2k	~3k	
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Note: R.O.W = France, Germany, Italy, Spain, UK, and Japan; Source: GlobalData



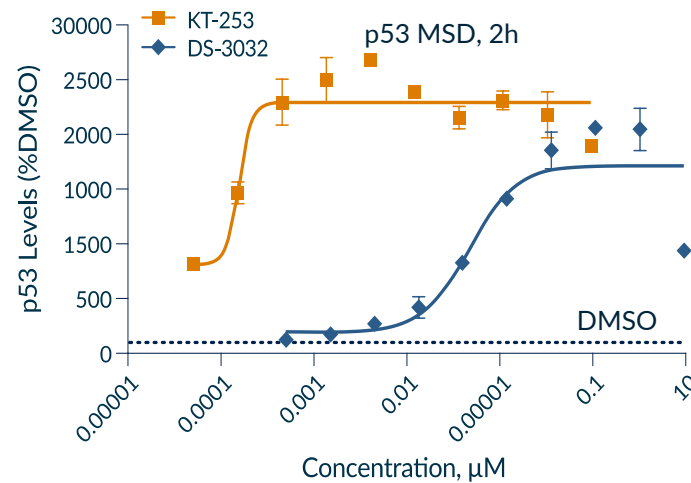
# KT-253's Potent p53 Stabilization with Brief Exposures Drives Apoptosis in Cancer Cells

## KT-253 Keeps MDM2 Levels Undetectable, Stabilizing p53

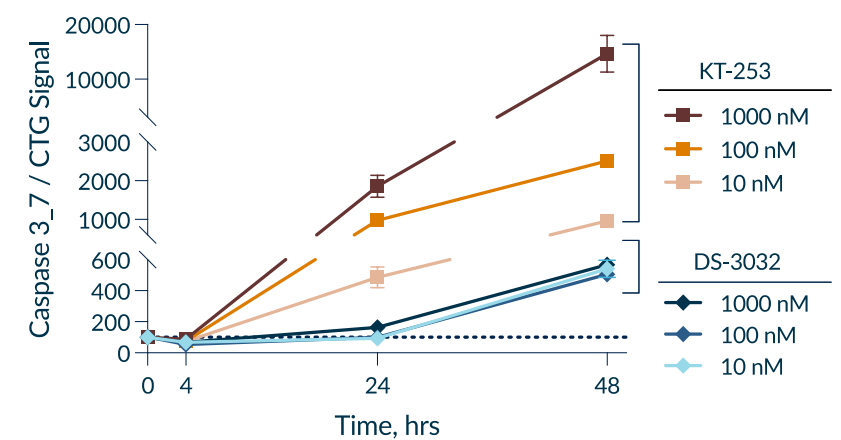


MDM2 levels are increased by the small molecule inhibitor (feedback loop), impairing p53 stabilization

## KT-253 Strongly Stabilizes p53



## 4hr Target Coverage by KT-253 Is Sufficient to Induce Apoptosis

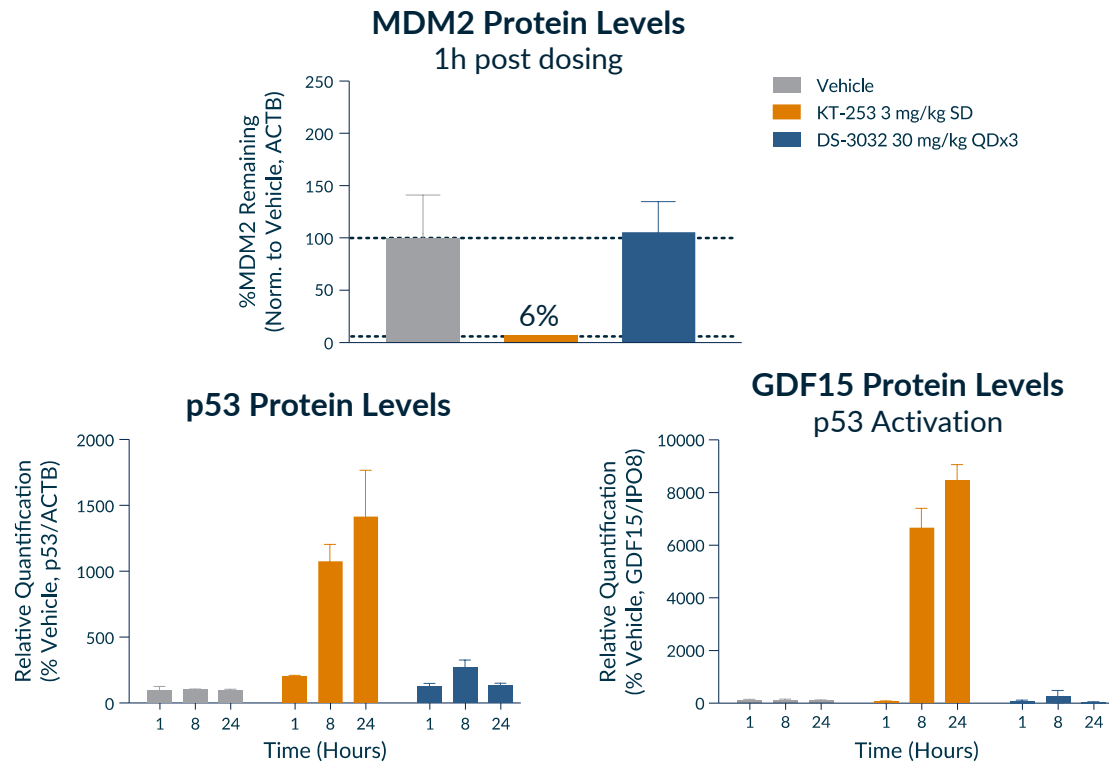


Compound	KT-253	DS-3032	AMG-232
Company	Kymera	Sankyo/Rain	Amgen/Kartos
Clinical stage	Phase I	Completed/Terminated	Multiple Ph II; combo AML
RS4;11 IC <sub>50</sub> (nM) (Cell Viability)	0.3	67	280
MDM2-HiBiT, DC <sub>50</sub> (nM) (Degradation)	0.4	-	-

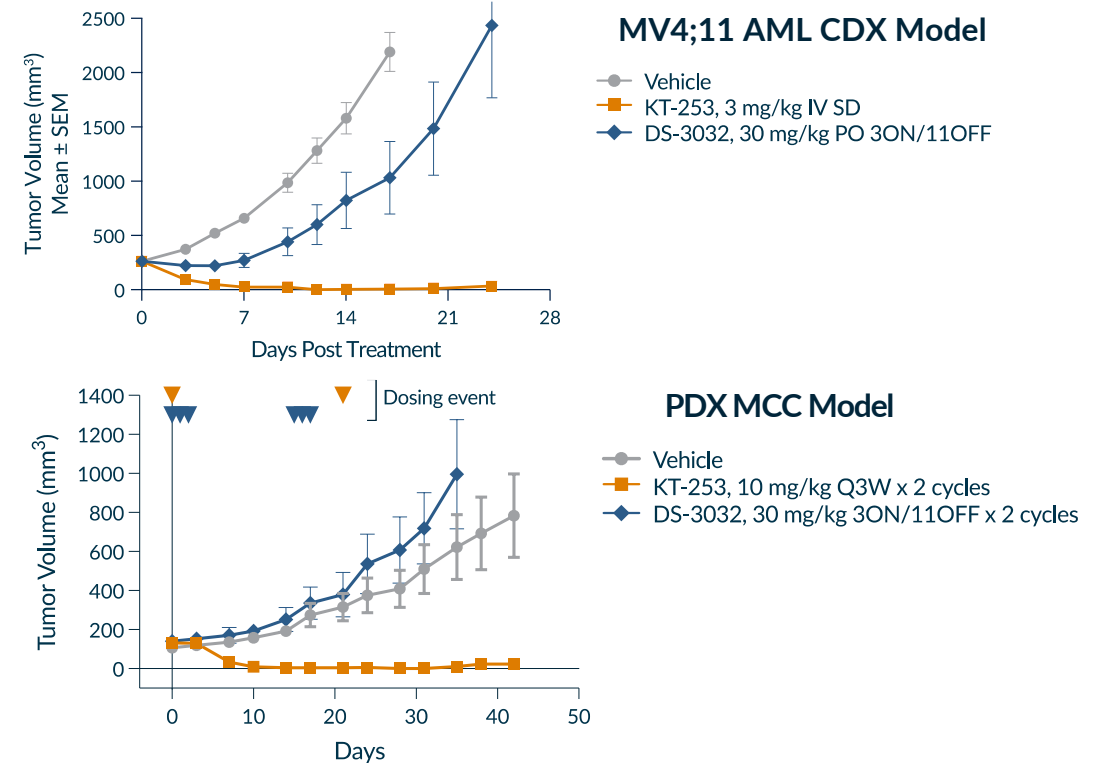
- KT-253 is **>200-fold more potent** in tumor cell viability assays than SMI's
- Data supports intermittent dosing schedule of KT-253 can drive efficacy while increasing therapeutic index

# KT-253 Potently Degrades MDM2 Leading to Pathway Impact and Antitumor Activity Superior to SMI in AML and MCC Models

## MDM2 Degradation Leads to Superior P53 Upregulation vs SMI



## MDM2 Degradation Leads to Superior Antitumor Responses in AML and MCC Preclinical Models



- Targeted proteomic analysis of RS4;11 tumors demonstrates robust degradation of MDM2 one hour post dosing and associated pathway activation biomarkers including p53 and GDF15

- Sustained tumor regressions in MV4;11 (AML) CDX models after a single 3 mg/kg KT-253 dose
- KT-253 demonstrated robust antitumor activity in Merkel Cell Carcinoma
- No antitumor activity observed with clinically relevant dosing regimen of SM (DS-3032)

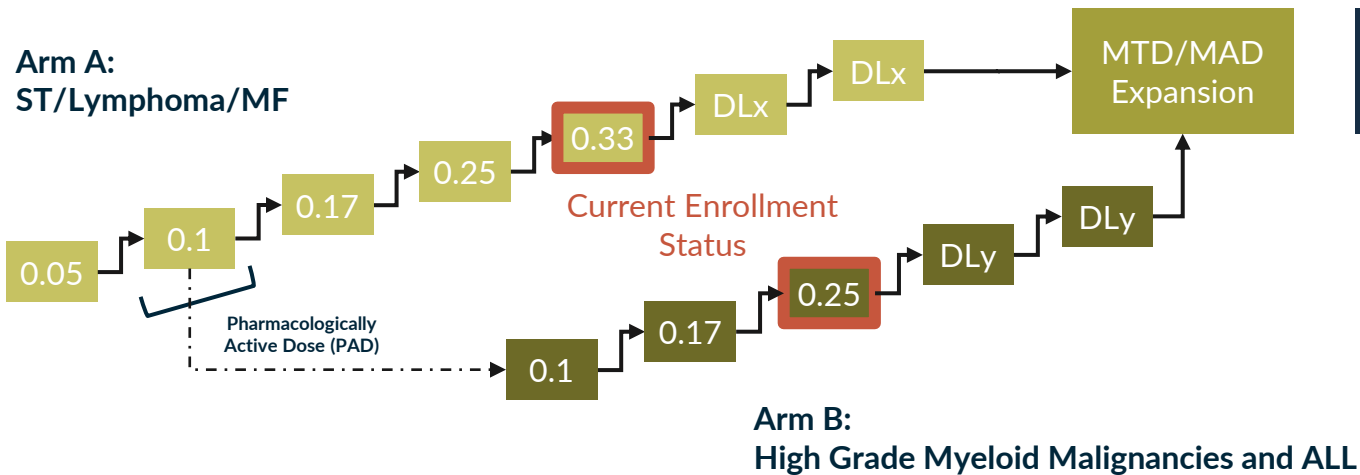
# KT-253 Phase 1a: Study Design

## Phase 1a

Arm A: R/R Lymphoma, Solid Tumors or Myelofibrosis (MF); Arm B: High Grade Myeloid Malignancies and ALL

Phase 1b  
AML  
R/R p53<sup>wt</sup> AML

Regimen: Single Agent KT-253 mg/kg Intravenous (IV) Infusion Every 3 Weeks



Exploratory Expansion p53<sup>wt</sup>  
Solid Tumor  
n=20

p53<sup>wt</sup> R/R AML at  
MTD/MAD  
n = 20

p53<sup>wt</sup> R/R AML at  
Dose lower than MTD/MAD  
n = 20

Key Objectives	Phase 1a
<b>Primary</b>	<ul style="list-style-type: none"> <li>Safety, MTD and/or RP2D</li> </ul>
<b>Secondary</b>	<ul style="list-style-type: none"> <li>PK</li> <li>Preliminary Efficacy</li> </ul>
<b>Exploratory</b>	<ul style="list-style-type: none"> <li>PD</li> </ul>

## Clinical Trial Status\*

- Arm A: R/R Solid Tumors, Lymphomas and Myelofibrosis  
16 patients enrolled across first 5 dose levels
- Arm B: R/R High-Grade Myeloid Malignancies/ALL  
8 patients enrolled at first 3 dose levels

\*As of April 9, 2024, data cut-off date.

# KT-253 Safety Summary: Arm A DL1-5 and Arm B DL1-3

Data cut-off date of April 9, 2024

- KT-253 was well-tolerated with no neutropenia or thrombocytopenia typical of MDM2 small molecule inhibitors observed
- Most common AEs related to KT-253 observed in >15% patients (n=24), n (%):
  - Nausea 8 (33.3%)
  - Fatigue 6 (25%)
  - Decreased appetite 4 (16.7%)
- One DLT observed of AEs leading to discontinuation that included Grade 2 fatigue and arthralgia in Arm A DL4
- Arm A: KT-253 related SAEs included Grade 3 hypotension in one patient with decreased oral intake at DL1 and Grade 3 ventricular tachycardia leading to treatment discontinuation in one patient at DL3
- Arm B: No SAEs were observed

# Responses Observed Across Multiple Tumor Types During Dose Escalation of KT-253

Data Cutoff Date of April 9, 2024

## Clinical Responses

### Best Overall Response by Arm

#### ARM A (n=13<sup>1</sup>, n (%))

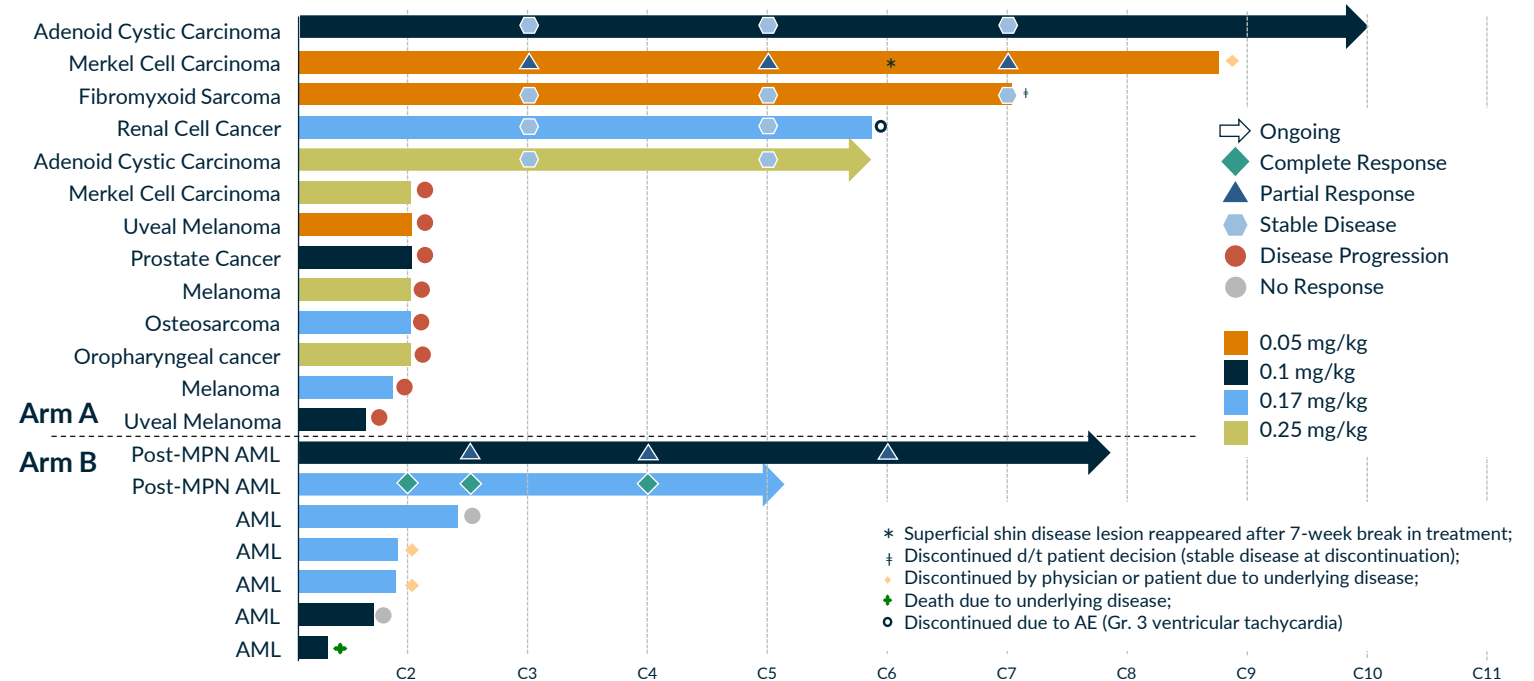
Complete Response	-
Partial Response	1 <sup>2</sup> (7.7)
Stable Disease	4 <sup>3</sup> (30.8)
Progressive Disease	8 <sup>4</sup> (60.2)

#### ARM B (n=7<sup>1</sup>, n (%))

Complete Response	1 <sup>5</sup> (14.3)
Partial Response	1 <sup>5</sup> (14.3)
No Response	2 (28.6)
Treatment Failure-Refractory Disease	-
Non-Evaluable	3 <sup>6</sup> (42.9)

<sup>1</sup>Thirteen of the sixteen Arm A and seven of eight Arm B patients enrolled were evaluable for response assessment at the time of cut-off; <sup>2</sup>MCC; <sup>3</sup>Fibromyxoid sarcoma (n=1), adenoid cystic carcinoma (n=2); renal (n=1); <sup>4</sup>Includes one patient with uveal melanoma assessed as clinical progression; <sup>5</sup>Post-MPN AML; <sup>6</sup>Off treatment from death due to underlying disease (n=1) or clinical deterioration (n=2) prior to first response assessment; Arm A responses assessed per RECIST 1.1; Arm B by ELN 2022

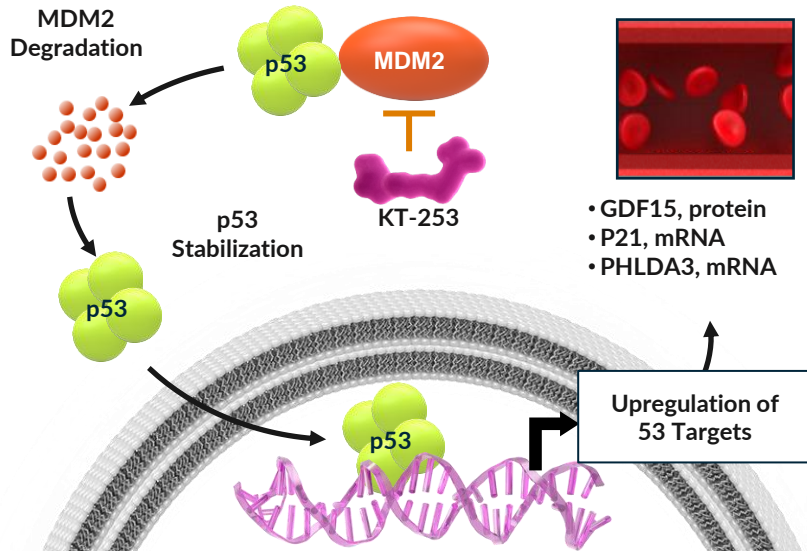
## Duration of Time on Treatment – Disease Evaluable Patients



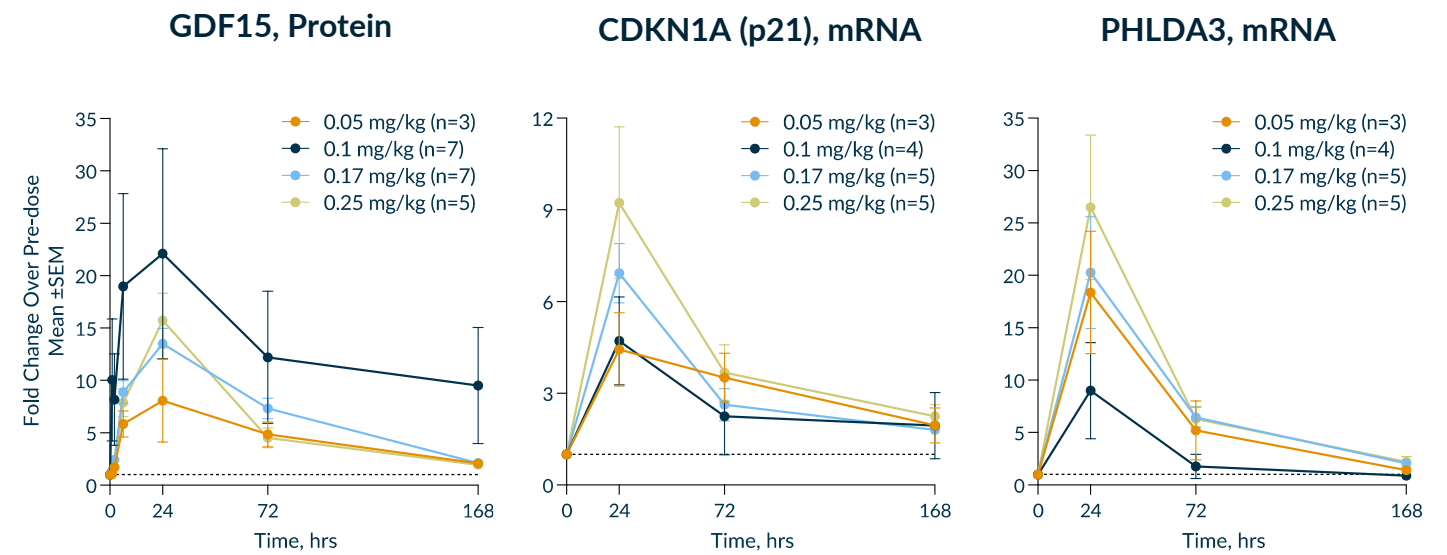
Preliminary signs of efficacy observed in both solid tumors and AML, with responses observed in Merkel Cell Cancer and in 2 of 2 Post-MPN AML patients

# Potent Upregulation of p53 Biomarkers Shows Target Engagement by KT-253

## Upregulation of PD Biomarkers by MDM2 Degradation-mediated p53 Pathway Activation



## Rapid Upregulation of Plasma GDF-15 Protein and Upregulation of CDKN1A and PHLDA3 mRNA Levels in Blood



Fold-change over pre-dose baseline for Cycle 1. Pre-dose baseline indicated by dotted line

Strong proof-of-mechanism with evidence of target engagement and upregulation of p53 pathway biomarkers even at the lowest dose levels in solid tumor and AML patients\*

\*As of April 9, 2024, data cut-off date.

# MDM2 Degradator: KT-253

First-in-Class Opportunity to Address p53 Wild Type Tumors Across Variety of Tumors



## Recent Clinical Data\*

Phase 1a data from Arm A and Arm B show evidence of target engagement and p53 pathway activation

Antitumor responses observed in both solid and heme tumors including Merkel Cell Cancer and 2 of 2 post-MPN AML patients

Fidelity of translation of PK, PD, and safety

Phase 1a dose escalation ongoing

## Significant Opportunity

Monotherapy opportunity in subsets of solid tumors

Biomarker-based patient selection strategy to be informed by emerging gene signature indicating sensitivity to degrader mechanism

Monotherapy and combination opportunities in hematological malignancies, including AML, ALL, and potentially MF, MDS, and other p53WT tumors

## Complete Recruitment: 2H24 Followed by Phase 1 Data

Completion of enrollment in the Phase 1a dose escalation expected in the second half of 2024, and data set shared subsequently

Clinical development strategy includes accelerated registration path in p53 WT tumors with high sensitivity to degrader mechanism such as AML, lymphomas and solid tumors

Additional clinical and preclinical data supporting biomarker-based patient selection strategy to be disclosed in 2024

\*As of April 9, 2024, data cut-off date.



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# Thank You

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**NASDAQ: KYMR**

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The logo for Kymera Therapeutics, featuring a stylized 'K' icon followed by the word 'KYMERA' in a bold, sans-serif font.