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Research & Development Day

March 15, 2023

This presentation contains forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. Words such as "may," "will," "should," "expect," "believe", "plan" and similar expressions (as well as other words or expressions referencing future events, conditions or circumstances) are intended to identify forward-looking statements. These forward-looking statements are based on Kezar's expectations and assumptions as of the date of this presentation. Each of these forward-looking statements involves risks and uncertainties that could cause Kezar's clinical development programs, future results or performance to differ materially from those expressed or implied by the forwardlooking statements. Forward-looking statements contained in this presentation include, but are not limited to, statements about the design, progress, timing, scope and results of clinical trials, statements about the company's financial position and the timing and amount of future operating expenses, the initiation and timing of future clinical trials, the likelihood that data will support future development and therapeutic potential, the association of preclinical and clinical data with treatment outcomes, the anticipated therapeutic benefit, the timing of regulatory filings, and the likelihood of obtaining regulatory approval of Kezar's product candidates. Many factors may cause differences between current expectations and actual results, including unexpected safety or efficacy data observed during preclinical and clinical studies, changes in expected or existing competition, lower than expected clinical trial enrollment rates, changes in the regulatory environment, the uncertainty and timing of regulatory interactions and processes, and unexpected litigation or other disputes. Other factors that may cause actual results to differ from those expressed or implied in the forward-looking statements in this presentation are discussed in Kezar's filings with the U.S. Securities and Exchange Commission, including the "Risk Factors" contained therein. Except as required by law, Kezar assumes no obligation to update any forward-looking statements contained herein to reflect any change in expectations, even as new information becomes available.





OPENING REMARKS



John Fowler, MBA Chief Executive Officer



SPEAKERS



John Fowler, MBA Chief Executive Officer



Neel K. Anand, PhD Senior Vice President, Research & Discovery



Noreen R. Henig, MD Chief Medical Officer



Craig S. Lammert, MD Assistant Professor of Medicine Indiana University School of Medicine Executive Director, Autoimmune Hepatitis Association

4:30 PM – 4:35 PM Opening Remarks	John Fowler, MBA	
4:35 PM – 4:55 PM PALIZADE: Zetomipzomib Lupus Nephritis Update	Noreen R. Henig, MD	
4:55 PM – 5:15 PM AIH: Overview of Current Treatment Options and Clinical Trial Considerations	Craig S. Lammert, MD	
5:15 PM – 5:20 PM PORTOLA: Zetomipzomib Autoimmune Hepatitis Update	Noreen R. Henig, MD	
5:20 PM – 5:40 PM Protein Secretion Platform Research Update	Neel K. Anand, PhD	
5:40 PM – 5:50 PM KZR-261 Clinical Update	Noreen R. Henig, MD	
5:50 PM – 6:00 PM Closing Remarks	John Fowler, MBA	
C.00 DM C.45 DM		

6:00 PM – 6:15 PM Question & Answer Session



First-In-Class Therapeutic Portfolio With Two Clinical Assets Across Immunology and Oncology

Pursuing Paradigm Shifts in Immunology and Oncology

KEZAR LIFE SCIENCES



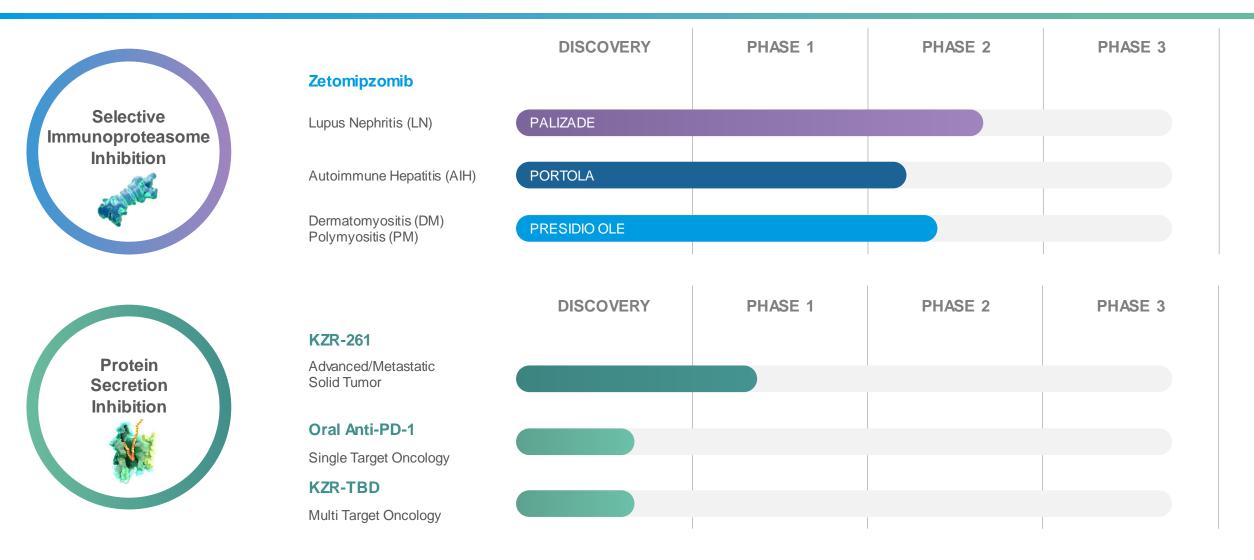
Selective Immunoproteasome Inhibition With Zetomipzomib (KZR-616) Leads to Potent Immunomodulation Without Evidence of Immunosuppression Observed to Date

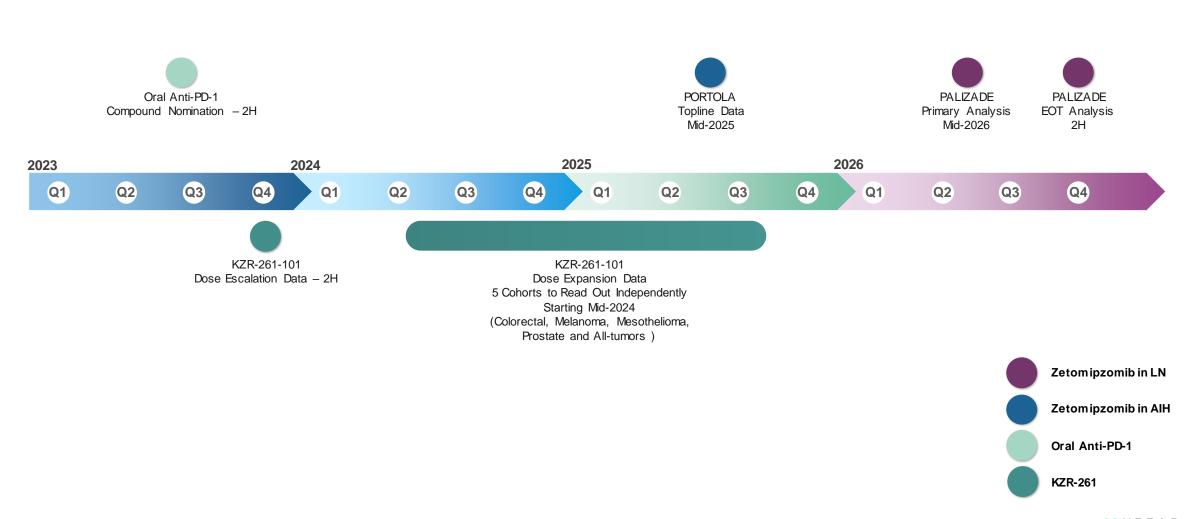
Protein Secretion Inhibition: KZR-261 Shows Broad Anti-tumor Potential by Controlling Proliferation, Metastasis and Immune Evasion in Preclinical Cancer Models

Multiple Avenues to Value Creation

- Zetomipzomib is poised to show potential as a pipeline-in-a-drug across several autoimmune indications
- · KZR-261 has mechanistic rationale for both hematologic and solid tumors
- Protein Secretion Discovery Platform offers additional upside

Building a First-In-Class Therapeutic Portfolio: "Pipeline in a Drug" Candidates with Multiple Shots on Goal, Supported by Novel Discovery Platform







ZETOMIPZOMIB LUPUS NEPHRITIS UPDATE



Noreen R. Henig, MD Chief Medical Officer



Zetomipzomib Modulates Innate and Acquired Immune Responses Without Evidence of Immunosuppression to Date



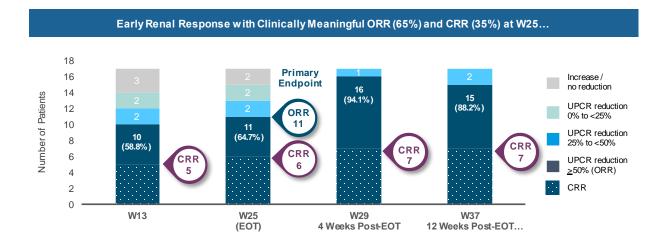
 Selective inhibition of the immunoproteasome down regulates inflammation without immunosuppression

- Once-weekly SC administration
- No accumulation observed with repeat dosing
- Consistent exposure and clearance ($T_{1/2} < 5$ hours)
- No immediate rebound of signs/symptoms of disease activity observed upon discontinuation
- ✓ No clinically significant opportunistic or serious infections observed
- ✓ No clinically significant immune cell depletion observed
- ✓ Not predicted to result in clinically significant drug-drug interactions (DDI)
- No off-target effects observed to date
- No teratogenicity observed in nonclinical studies
- ✓ No serum monitoring required

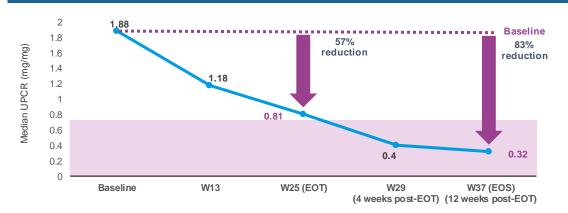
Furie R et al., EULAR 2021 and Data on File.



MISSION Ph 2 Overview: Zetomipzomib Achieves Clinically Meaningful Overall Renal Response in Refractory or Hard-to-Treat LN Patients Without Standard Induction Therapy⁽¹⁾



... And Continued Improvement in UPCR Reduction Post Treatment



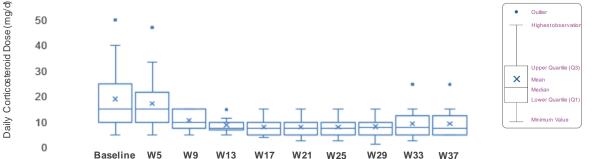
Promising Results in Showing Improvement in Key Extrarenal SLE Disease Activity **Scores With Biomarker Support**

Evaluable population reduction in systematic signs and symptoms of SLE with zetomipzomib treatment

 Improvements across SLEDAI-2K, Physician Global Assessment Score, Patient Global Assessment Score, HAQ-pain, etc.

Evaluable population improvement in key serologic biomarkers observed at Week 25 (EOT) in patients with abnormal levels at baseline

- Biomarkers included Anti-dsDNA, C3, and C4 .
- Cell counts remained stable in patients on study •



82% of Patients Achieving Daily Corticosteroid Dose ≤10mg by W13

Other background immunosuppressive doses remained stable throughout the study.

1. Reporting Evaluable population (n=17) - patients that did not withdraw before Week 25.

60



(EOT)



(EOS)

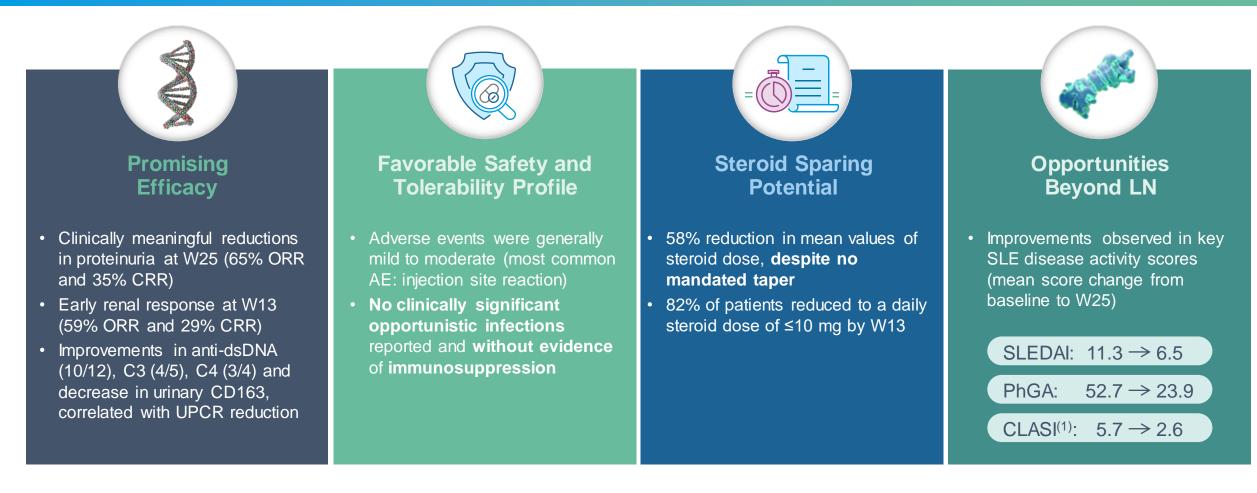


٠ Outlier



Differentiation & Pipeline in a

Totality of Evidence for Zetomipzomib: Signs, Symptoms and Biomarkers All Move Toward Therapeutic Benefit

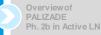


1. Eleven patients had active cutaneous SLE at baseline (CLASI-A >0).

Abbreviations: AE, adverse event; C3, complement 3, C4, complement 4; CLASI, Cutaneous Lupus Erythematosus Severity Index-Activity; dsDNA, double-stranded deoxyribonucleic acid; LN, Iupus nephritis; PhGA, Physician Global Assessment; SLE, systemic lupus erythematosus; SLEDAI-2K, Systemic Lupus Erythematosus Disease Activity Index 2000; UPCR, urine protein to creatinine ratio; W, week.

Overview of Zetomipzon





Overview of All & PORTOLA Ph. 2a in AlH





Zetomipzomib Current Results Relative to Later Stage and Approved Lupus Nephritis Landscape¹

	KEZAR	V Aurinia ⁻	GSK	Roche	AstraZeneca
Product	Zetomipzomib (KZR-616)	Lupkynis ⁽⁴⁾ (voclosporin)	Benlysta ⁽⁵⁾ (belimumab)	Gazyva ⁽⁶⁾ (obinutuzumab)	Saphnelo ⁽⁷⁾ (anifrolumab)
Mechanism	Immunoproteasomeinhibitor	Calcineurininhibitor	Human anti-BAFF mAb	Humanized anti-CD20 mAb	Human anti-IFNAR mAb
Target	Immunoproteasome (Macrophages, T- cells, B-cells)	T-cells	B-cells	B-cells	Typelinterferon
Last Phase of Data Reported	Open-label Phase 2	Phase 3	Phase 3	Phase 2	Phase 2
Administration	SC (QW)	Oral (BID)	IV (Q2W x 3, then Q4W) or SC (QW)	IV (Day 1, W2, 24, 26, 50, 52, Q6M starting at Week 80)	IV (Q4W)
Rapidity of Response (CRR ⁽²⁾ at Week 12/13)	29% (24%) ⁽³⁾ at Week 13	N/A	13% at Week 12	16% at Week 12	18% at Week 12
CRR ⁽²⁾	35% (29%) ⁽³⁾ at Week 25 (EOT) 41% (33%) ⁽³⁾ at Week 37 (EOS)	32% at Week 24 41% at Week 52	27% at Week 36 30% at Week 104	35% at Week 36 41% at Week 104	37% at Week 36 41% at Week 52
Induction Therapy	No	Yes	Yes	Yes	Yes
Immunosuppression	None observed	Yes	Yes	Yes	Yes
Safety	No clinically significant serious or opportunistic infections observed to date	Blackbox warning regarding malignancies and serious infection; warnings regarding nephrotoxicity, hypertension, neurotoxicity, hyperkalemia, QT prolongation, and use with live vaccines	Label includes warnings regarding serious infections, PML, hypersensitivity reactions, depression/suicidality, and use with live vaccines	Infusion-related reactions 16% vs PBO 10% Bronchitis 19% vs PBO 8% Herpes Zoster 15% vs PBO 10%	SLE label includes warnings regarding serious/fatal infections, hypersensitivity reactions, malignancy, and use with live vaccines or biologics

1. This data is not based on head-to-head clinical trials, and such data is not directly comparable due to differences in study protocols, conditions and patient populations.

- 2. CRR using UPCR $\leq 0.5 \text{ mg/kg}$ as cutoff; percentages are based on completers only.
- 3. Percentages in parentheses are based on intent-to-treat population.

4. Approved for lupus nephritis. Rovin B et al. Lancet 2021; Lupkynis. Package Insert. Aurinia Pharmaceuticals Inc. 2021; Aurinia Clinical Program Update January 2022.

> Overview of Zetomipzomib





PALIZADE

6. Furie RA et al. Ann RheumDis. 2022.

7. Jayne D et al. Ann RheumDis. 2022.

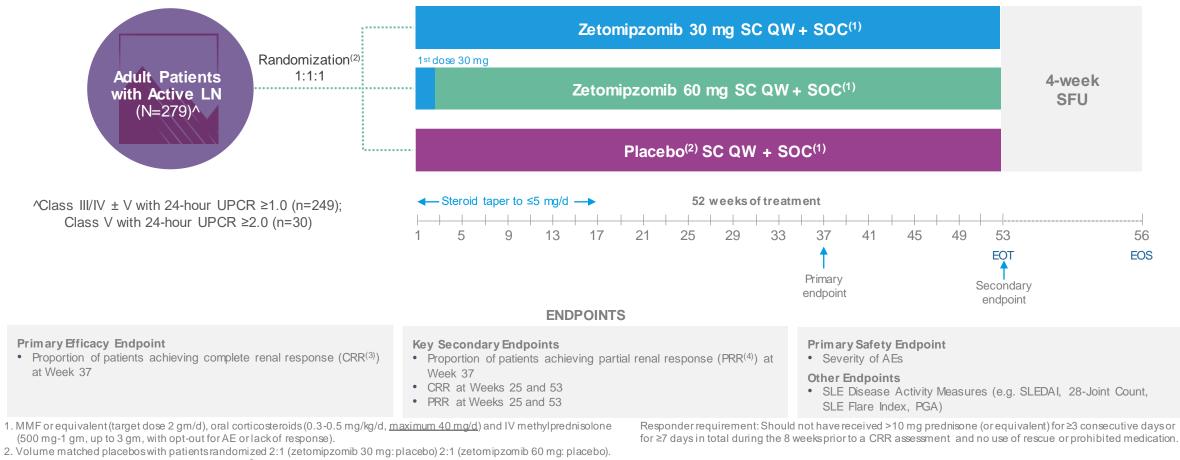
Pipeline in a Product Potential

5. Approved for lupus nephritis. Furie RA et al. NEJM2020; Benlysta. Package Insert. GSK plc. 2022.





PALIZADE: Phase 2b Placebo-Controlled Trial Evaluating the Efficacy and Safety of Zetomipzomib in Active Lupus Nephritis



3. CRR: UPCR ≤0.5 and eGFR≥60 mL/min/1.73 m² or no confirmed decrease of >20% from Baseline eGFR.

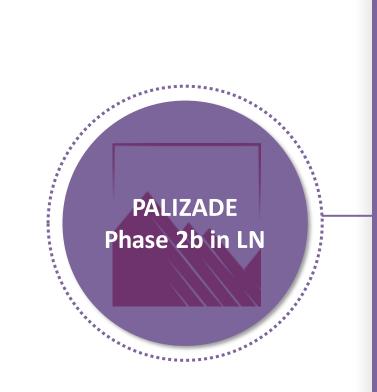
4. PRR: ≥50% reduction of UPCR from Baseline, and to <1.0 if the Baseline UPCR was <3.0 or to <3.0 if the Baseline value was ≥3.0.

Abbre viations: AE, adverse event; CRR, complete renal response; EOT, end of treatment; EOS, end of study; LN, lupus nephritis; PGA, Physician's Global Assessment; QW, once every week; SC, subcutaneous; SLE, Systemic Lupus Erythematosus; SLEDAI, Systemic Lupus Erythematosus Disease Activity Index; UPCR, urine protein to creatinine ratio; SFU, safety follow up.

👷 K E Z A R

verview of atomipzomib Overview of Ph. 2 in LN IN Overview of AIH Ph. 2 in Active LN Overview of AIH Ph. 2 in Active LN Ph. 2 in AlH

PALIZADE Phase 2b in Active Lupus Nephritis: Key Differentiators



✓ Thoughtful trial design allowing for robust data analysis

- 37-week CRR as primary endpoint, as well as 25 and 53-week CRR and PRR endpoints, allows for better comparability with other LN trials
- Opt-out of induction therapy by MD recommendation
- Enrollment criteria allows for representation of "real-world" LN patient
 population
- Designed to assess extrarenal SLE disease benefits
- ✓ Potential to demonstrate efficacy without immunosuppression
- ✓ Mandated steroid taper to demonstrate steroid-sparing potential
- ✓ Built for speed and potential for efficient transition into a pivotal trial
 - Full 52-week End-of-Treatment data expected in 2H 2026

Overviewof Zetomipzomil

Ph

Overview of PALIZADE Ph. 2b in Active LN



ZETOMIPZOMIB AUTOIMMUNE HEPATITIS UPDATE



Noreen R. Henig, MD Chief Medical Officer





Autoimmune Hepatitis: An Overview of Current Treatment Options and Clinical Trial Considerations

Craig S. Lammert, MD

Assistant Professor of Medicine, Indiana University School of Medicine Executive Director of the Autoimmune Hepatitis Association

What is Autoimmune Hepatitis?

- Autoimmune Hepatitis (AIH) is a long-term autoimmune disorder that results in inflammation of the liver
- This inflammation can cause harm to the liver and lead to scarring, eventually resulting in cirrhosis and liver failure
- The specific cause of autoimmune hepatitis is not well understood, but is believed to be the result of a combination of genetic and environmental factors
- AIH affects people of all ages and races, although it is most commonly diagnosed in young adult women
- Early detection and treatment is essential to slow the progression of the disease and prevent end-stage liver failure



Volk and Reau. Clinical Liver Disease. 2021;17(2):85-89. Lowe and John. WJH. 2018;10(12):911-923; Czaja AJ, et al. Gastroenterology & Hepatology. 2013 Sep; 9(9): 561–566.

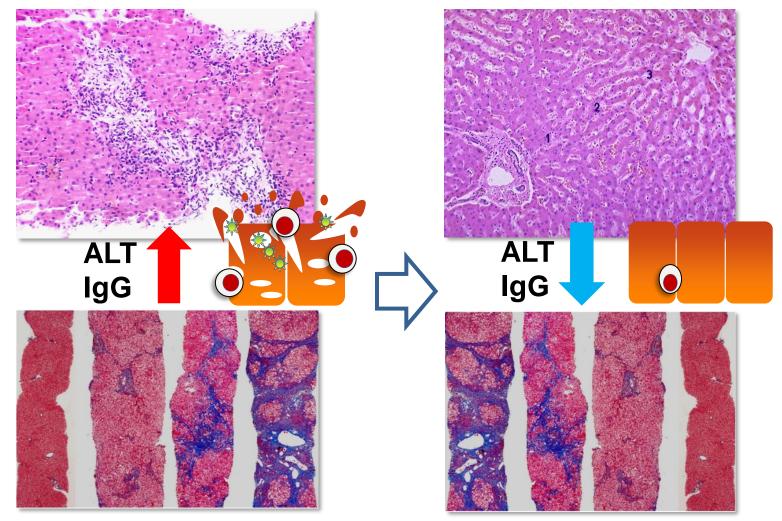
AIH Treatment Goals

- Control inflammation and prevent liver damage
- Achieve biochemical remission (normalization of serum AST, ALT and IgG levels)
- Prevent progression to cirrhosis and end-stage liver disease
- Maintain remission and improve quality of life
- Minimize long-terms effects of corticosteroids and immunosuppressive agents



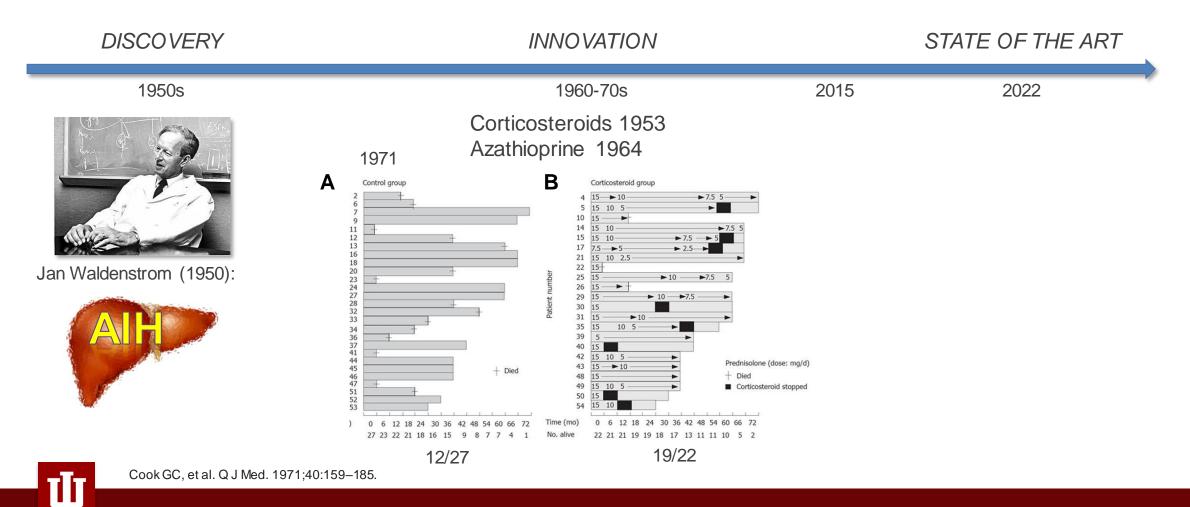
Mack et al. *Hepatology*. 2020;72(2):671-722. European Association for the Study of the Liver. *J Hepatol*. 2015;63(4):971-1004. **Abbreviatons:** ALT, alanine aminotransferase; AST, aspartate aminotransferase; IgG, immunoglobulin G.

AIH Treatment Goals: Inflammation and Fibrosis





Seventy Years of "Progress" in AIH Treatment



Seventy Years of "Progress" in AIH Treatment

Steroids

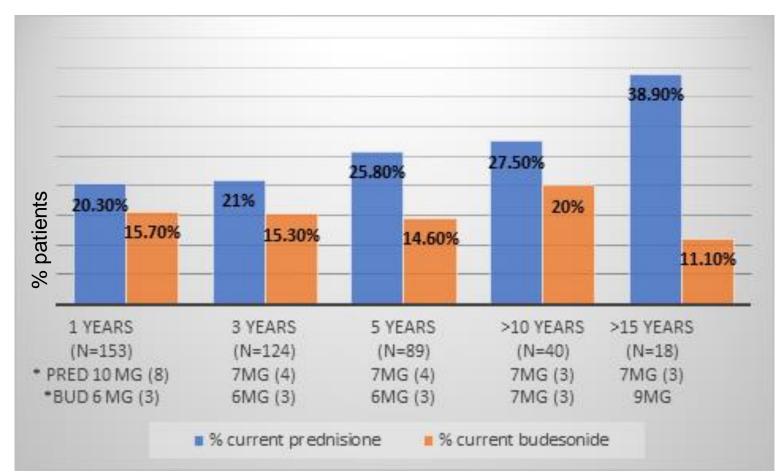
 Prednisone/prednisolone Budesonide

Chronic Immunosuppression

- Antimetabolites
 - Azathioprine/ 6MP
 - Mycophenolate mofetil
- Calcineurin Inhibitors
 - Tacrolimus
 - Cyclosporine
- mTOR inhibitors
 - Sirolimus
 - Everolimus



A Large, Consistent Proportion of AIH Patients Rely on Prednisone/Budesonide Regardless of Disease Duration





Autoimmune Hepatitis Association. Data on File.

INDIANA UNIVERSITY SCHOOL OF MEDICINE

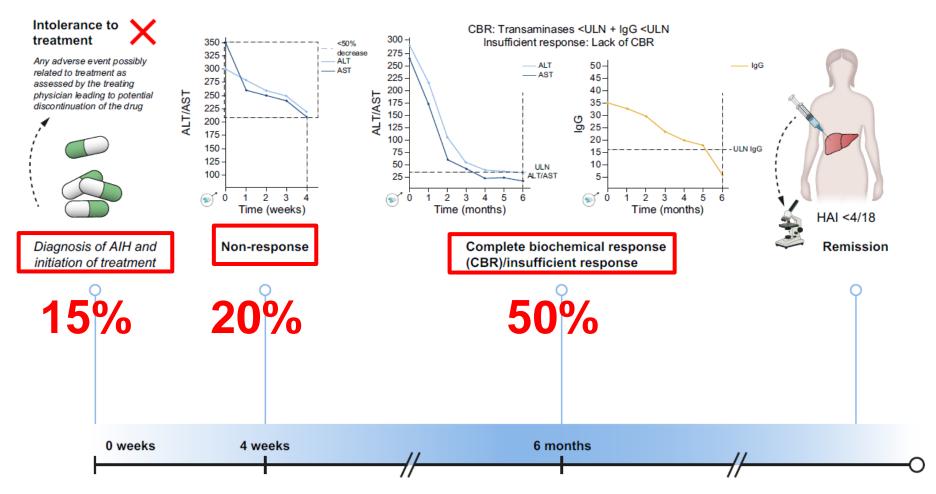
Current AIH Treatments Have Several Limitations

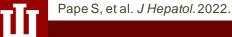
- **High dependency on corticosteroids:** Up to 40% of patients with AIH remain on steroids for disease control no matter disease duration.
- **Inadequate response to standard therapies:** Approximately 30% of patients with AIH do not respond adequately or are intolerant to standard treatments such as corticosteroids and immunosuppressants
- **High risk of relapse:** A high rate of relapse (up to 87%) after treatment withdrawal among patients with AIH who were treated with corticosteroids and immunosuppressants
- **Toxicity of immunosuppressants:** Long-term use of immunosuppressants, such as azathioprine and mycophenolate mofetil, can lead to significant side effects, including increased risk of infections, bone marrow suppression, and malignancies
- Lack of specific targeted therapies: No current therapies focused on targeting AIH pathophysiology



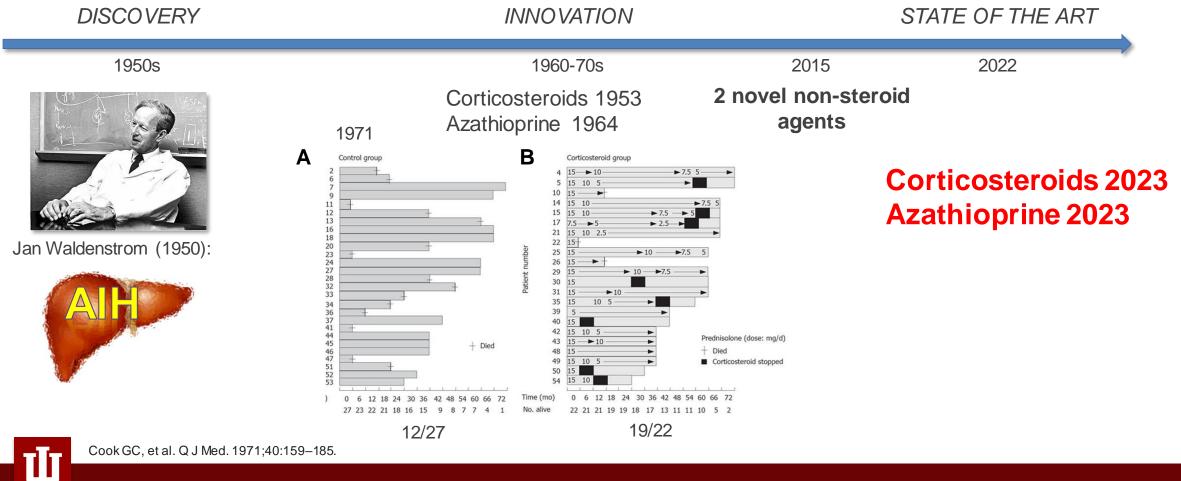
Autoimmune Hepatitis Association. Data on File; Lowe and John. WJH. 2018;10(12):911-923; Mack et al. Hepatology. 2020;72(2):671-722; Volk and Reau. Clinical Liver Disease. 2021;17(2):85-89.

AIH Treatment Goals: Response Criteria





Seventy Years of "Progress" in AIH Treatment



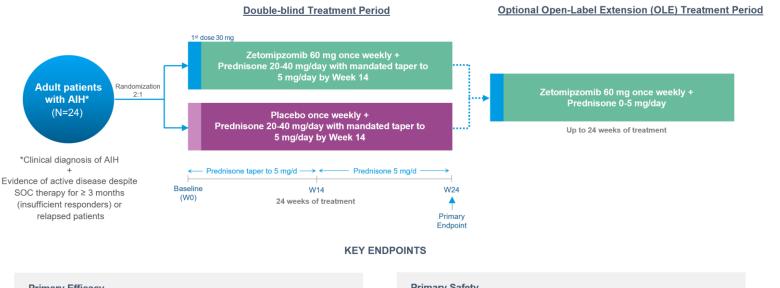
Cook GC, et al. Q J Med. 1971;40:159-185.

Clinical Trial Considerations for Autoimmune Hepatitis

- Very few clinical trials completed since initial landmark studies in AIH
- Incredible need for improved both first and second line treatment regimens
- Future clinical trials should address patient and clinical unmet needs
 - Hard to control disease
 - Loss of remission
 - Steroid dependency
 - Poor quality of life
 - Diverse populations
- Non-invasive liver tissue assessments should be explored as endpoints in clinical trials



PORTOLA Trial Evaluates the Safety and Efficacy of Zetomipzomib in Patients with AIH



Primary Efficacy

 Proportion of patients who achieve complete remission (ALT/AST normalization) with successful corticosteroid taper by Week 24

Primary Safety

 Proportion of patients who experience adverse events and severe adverse events

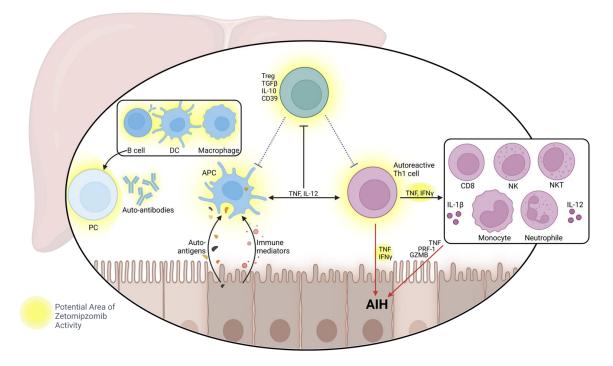
PORTOLA KEY DIFFERENTIATORS:

- Protocol-mandated steroid taper by W14
- Allows for 3 months of prior standard of care for insufficient responders
- Permits background medication of AZA, tacrolimus, MMF, 6-MP, CSA
- Use of FibroScan[®] to assess changes in liver stiffness (exploratory)
- Use of GTI, a glucocorticoid toxicitymonitoring instrument (exploratory)
- Open-label extension study for up to an additional 6 months to evaluate longer-term safety, tolerability and efficacy (disease flare)



Abbreviations: AZA, azathioprine; CSA, cyclosporine; GTI, Glucocorticoid Toxicity Index; MMF, mycophenolate mofetil; 6-MP, mercaptopurine.

Zetomipzomib Potential in the AIH Treatment Landscape



Adapted from Herkel et al. Journal of Hepatology. 2020,73(2):446-448.

- Immunoproteasome expression is increased in liver cells of patients with chronic active hepatitis or cirrhosis
- Zetomipzomib targets multiple effector cells involved in AIH pathophysiology
- The PORTOLA study evaluates zetomipzomib as a possible new therapeutic in AIH as a:
 - Potential immunomodulatory rather than immunosuppressive with no predicted offtarget effects
 - Potential steroid-sparing agent

Ψ



ZETOMIPZOMIB AUTOIMMUNE HEPATITIS UPDATE



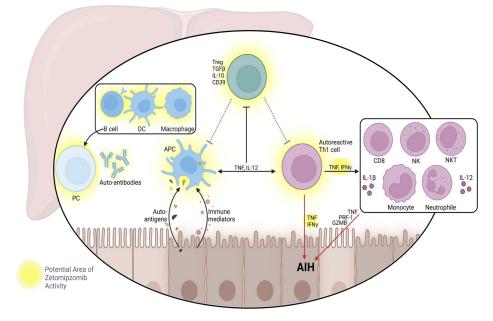
Noreen R. Henig, MD Chief Medical Officer



Significant Need for Treatments That Reduce Use of Chronic Immunosuppression

- AIH can affect 100,000 200,000 individuals in the U.S.⁽¹⁾
- High risk of relapse after treatment withdrawal⁽²⁾
- Inadequate response to standard therapies⁽³⁾
- High dependency on steroids⁽³⁾
- Significant toxicity associated with long-term immunosuppression and steroid use⁽²⁾
- Lack of therapy that addresses AIH pathophysiology

Zetomipzomib Targets Multiple Immune Effector Cells Involved in AIH



Adapted from Herkel et al. Journal of Hepatology. 2020, 73(2): 446-448.

1 Linzay CD et al. Autoimmune Hepatitis. [Updated 2022 Aug 22]. In: StatsPearls [Internet]. Treasure Island (FL): StatsPearl Publishing; 2022 Jan -.

2. Mack et al. Hepatology. 2020;72(2):671-722.

3. Autoimmune Hepatitis Association. Data on File.

Abbreviations: AIH, autoimmune hepatitis.





Autoimmune Hepatitis: A Strong Overlap of Disease Biology and MOA of Zetomipzomib



NCT05569759 Abbre viations: AIH, autoimmune hepatitis; IND, Investigational New Drug; MOA; mechanism of action.

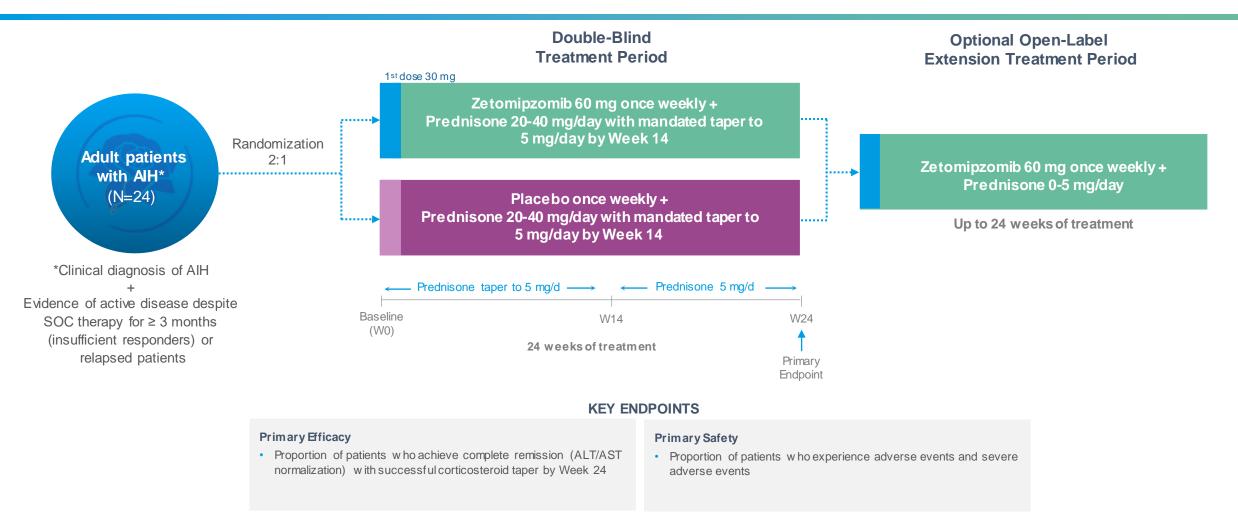
Overview of Zetomipzomib

Overview of MISSION Ph. 2 in LN Overviewof PALIZADE Ph. 2b in Active LN Overviewof AlH & PORTOLA Ph. 2a in AlH

Differentiation & Pipeline in a Product Potential



PORTOLA: Phase 2a Placebo-Controlled Trial Evaluating the Safety and Efficacy of **Zetomipzomib in Autoimmune Hepatitis**



NCT05569759

Abbreviations: AIH, autoimmune hepatitis; ALT, alanine transaminase; AST, aspartate transaminase; SOC, standard of care.

MISSION Ph. 2 in LN

Overviewof

Overview of AIH & PORTOLA Ph. 2a in AlH Ph. 2b in Active LN

Differentiation & Pipeline in a





PROTEIN SECRETION PLATFORM RESEARCH UPDATE

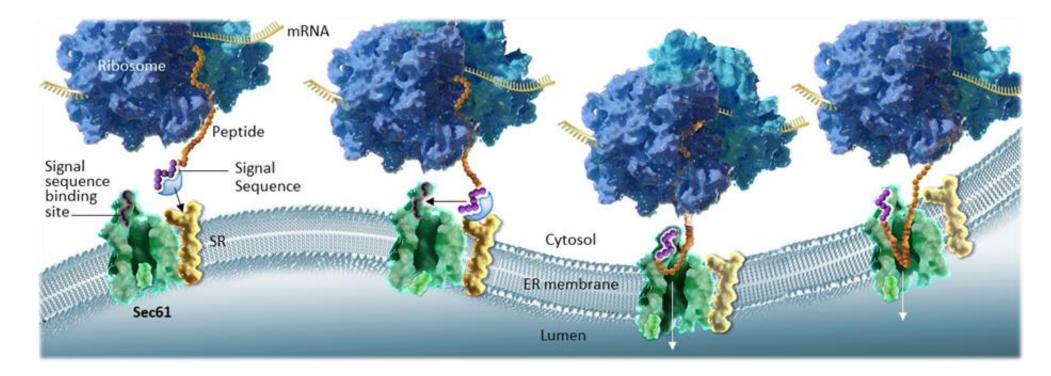


Neel K. Anand, PhD Senior Vice President, Research & Discovery



The Sec61 Translocation Channel (Translocon) is the Initiation of the Protein Secretion Pathway and a Novel Drug Target

- Highly conserved process, functional in all cells
- Approximately 6,000 secreted and transmembrane proteins utilize Sec61 to enter the endoplasmic reticulum (ER)
- Each protein has a unique signal sequence domain that guides it to the Sec61 translocon

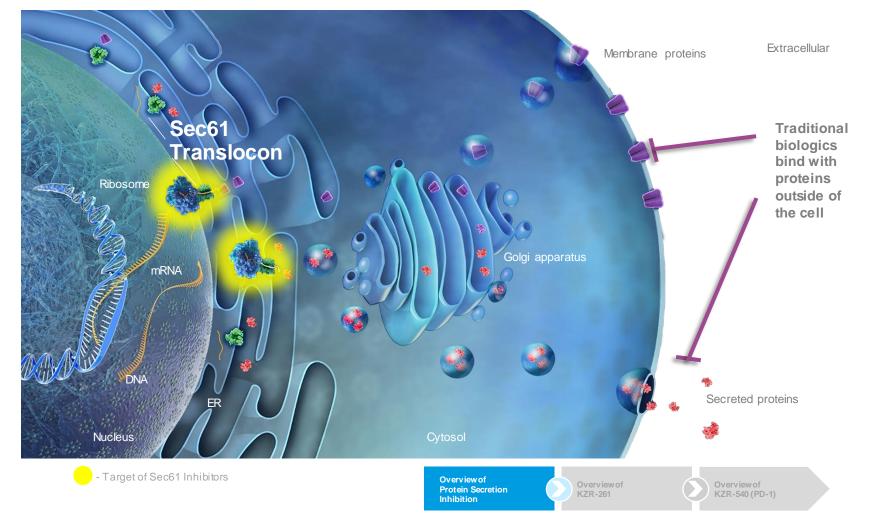


Overviewof Protein Secretion Inhibition



Sec61 Translocon is a Master Regulator for Secretion or Membrane Expression of Most Validated Targets for Biologics

Biologics target proteins after they have been made and released. Sec61 inhibition blocks these proteins before they are made.



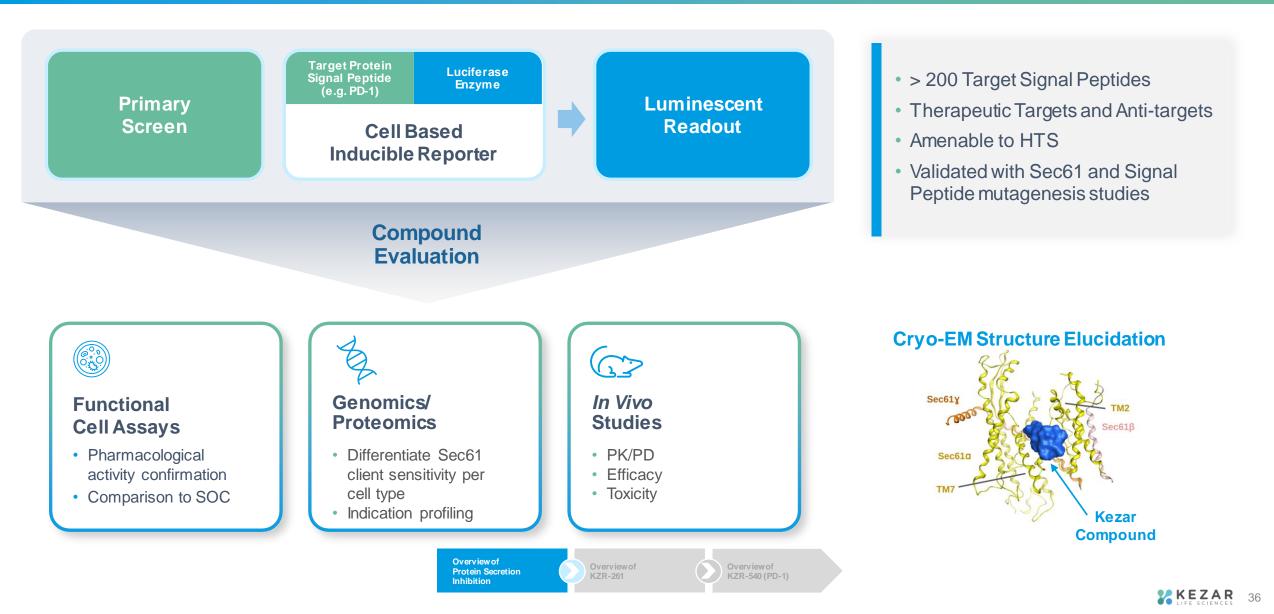
Membrane Proteins (partial list)

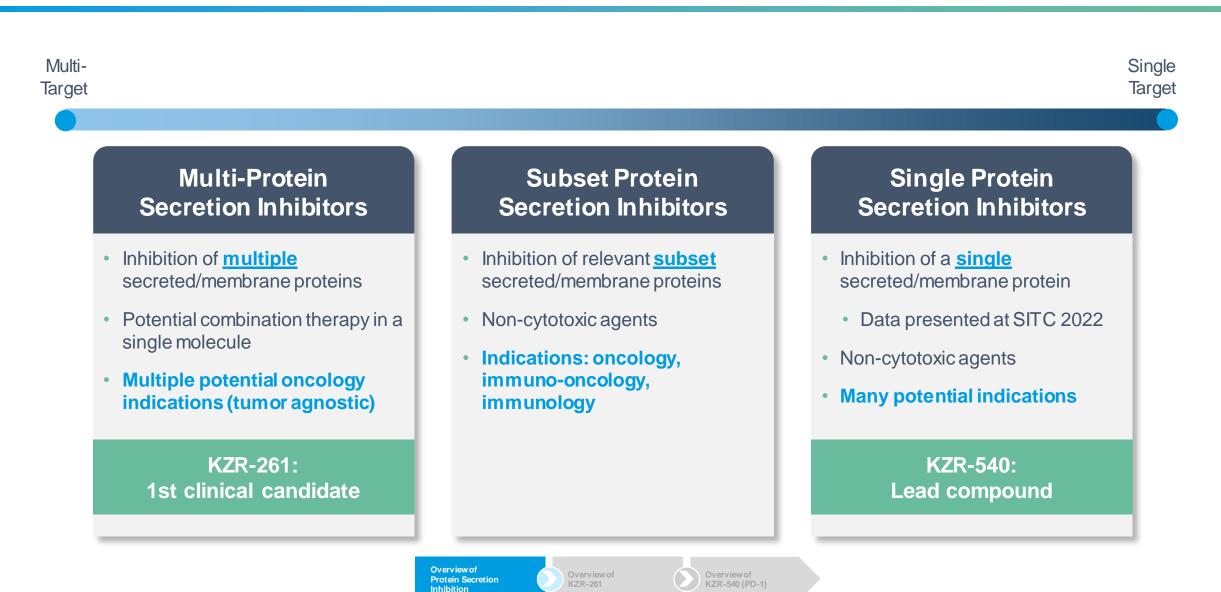
EGFR (ERBITUX[®]) IL-6R (ACTEMRA[®]) PD-1 (OPDIVO[®]) PDL1 (TECENTRIQ[®]) CTLA4 (YERVOY[®])

Secreted Proteins (partial list)

TNF-α (HUMIRA®) IL-17 (COSENTYX®) PCSK9 (REPATHA®) IL-6 (SYLVANT®) BAFF (BENLYSTA®)

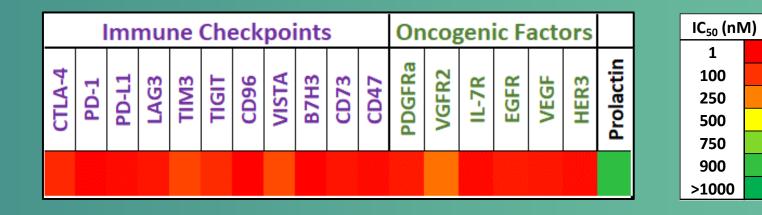
Kezar Has Developed Robust Drug Discovery Capabilities to Understand the Biology and Druggability of the Protein Secretion Pathway





KZR-261: Combination Therapy in a Single Small Molecule

In vitro Protein Secretion Assays



Direct Effects on Tumor Cells

- Tumor cell death via proteotoxic stress
- Reduced growth factor & oncogenic RTK expression



Tumor Microenvironment Modulation

- Reduced angiogenic factor expression (e.g., VEGF)
- Reduced immune checkpoint expression

Y KEZAR

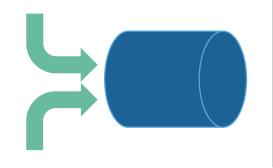
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Phase 1 Trial Ongoing



Bioinformatic Workflow to Identify Sensitive Tumor Types

450+ cell lines treated with KZR-261 Analog



7,000 gene modules assessed

6 gene modules correlating with sensitivity

- CCLE (1400+ cancer cell lines)
- TCGA (20K+ primary cancer samples)
- Gtex (50+ normal tissues, 15K+ samples)

Modules linked to target biology

- Sec61 clientome
- Vesicular transport
- mRNA translation

This approach identifies only tumor intrinsic factors

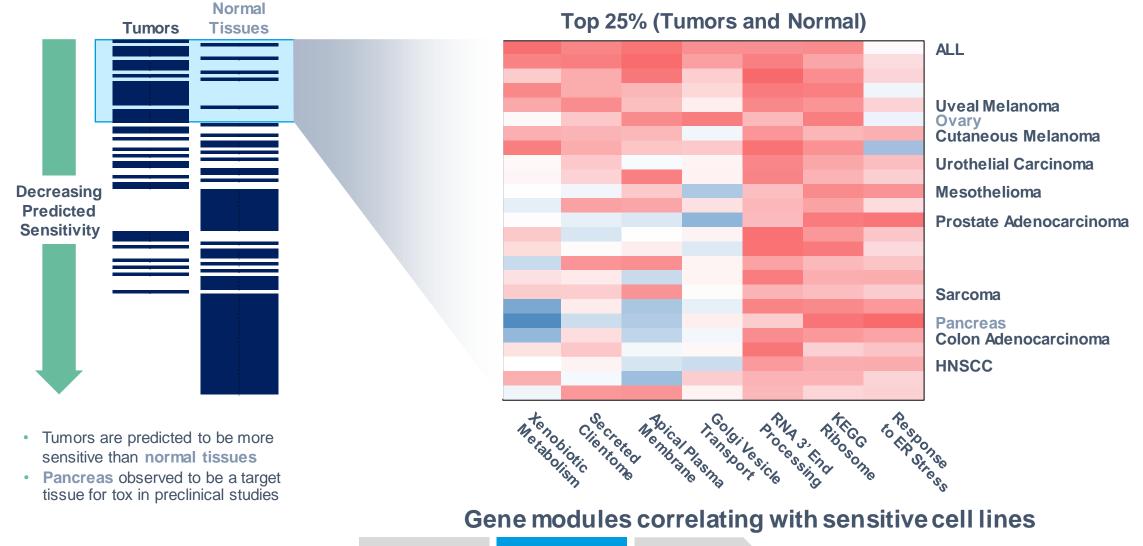
view of in Secretion ition







Bioinformatics, Preclinical Data and Market Opportunity Informed Multiple Solid and Liquid Tumors as Potential Indications for KZR-261

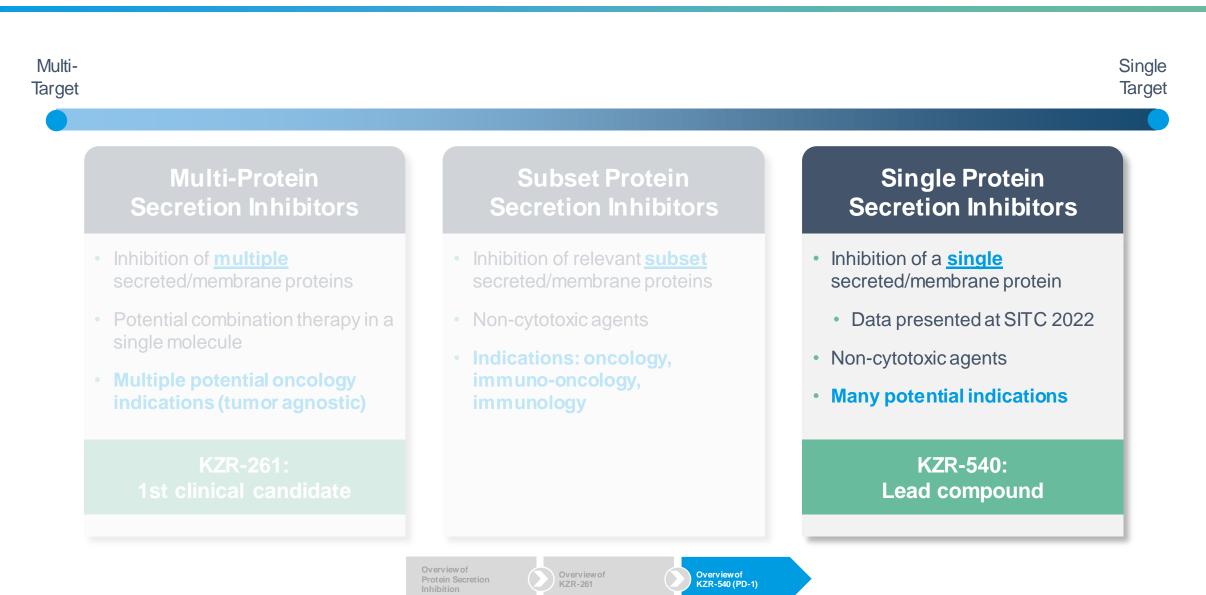


Overviewof **Protein Secretion** Overviewof

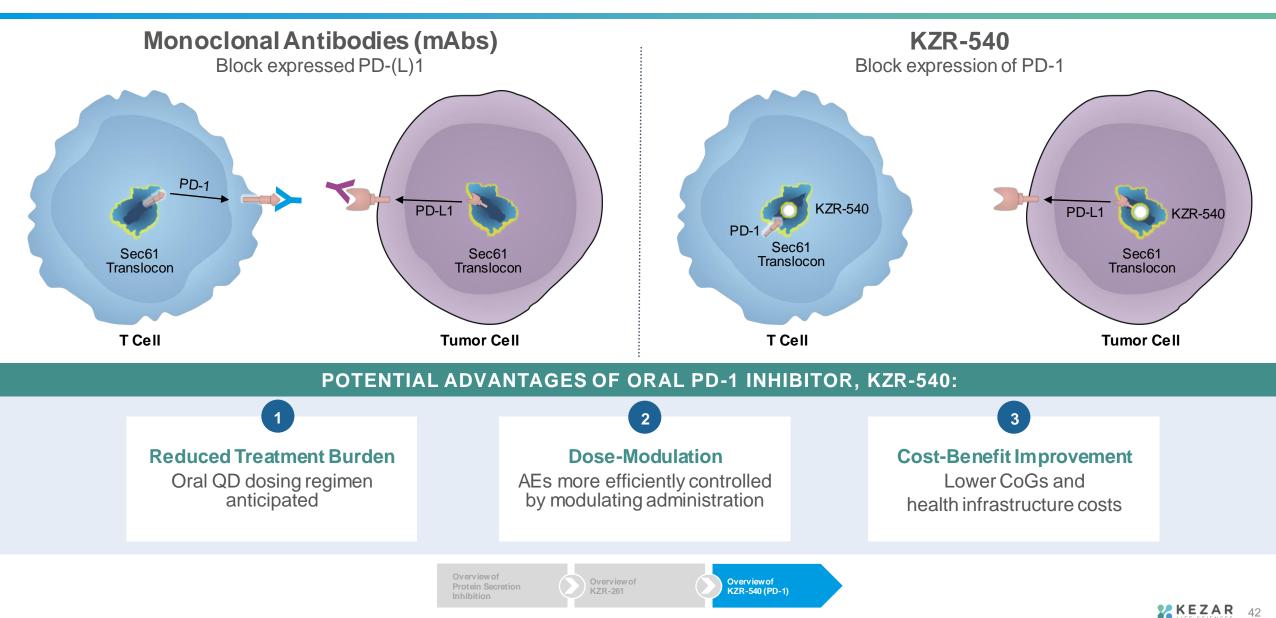
KZR-261

Overviewof

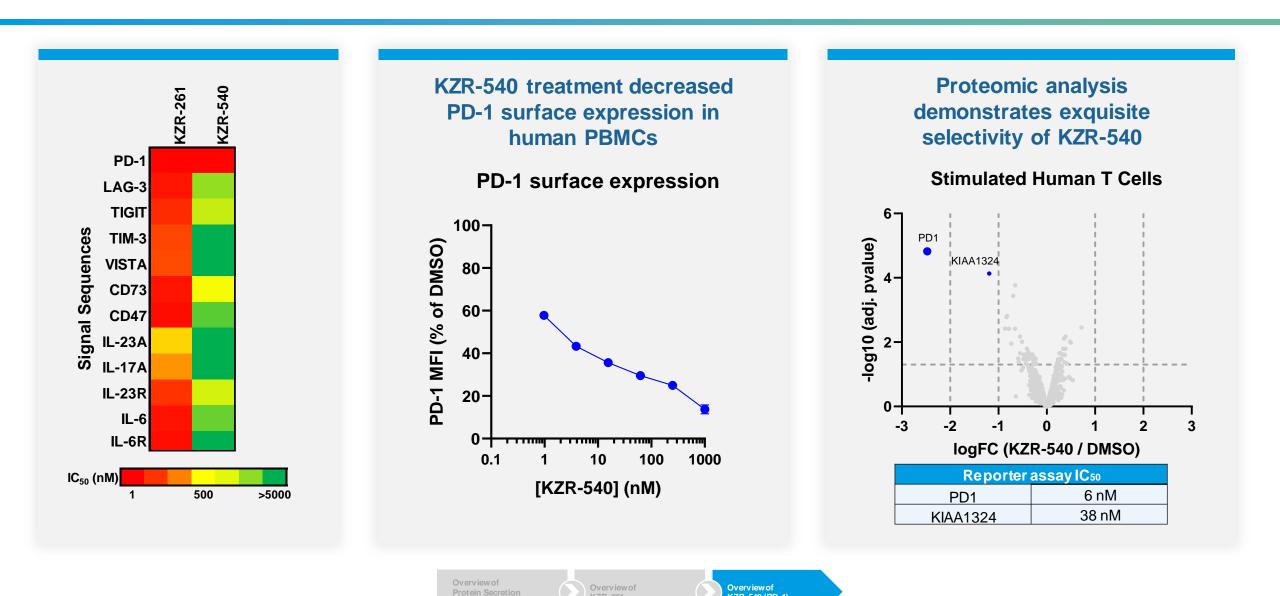
KZR-540 (PD-1)



KZR-540: Oral Small Molecule PD-1 Inhibitor is Potential I/O Partner of Choice for Combination Therapies



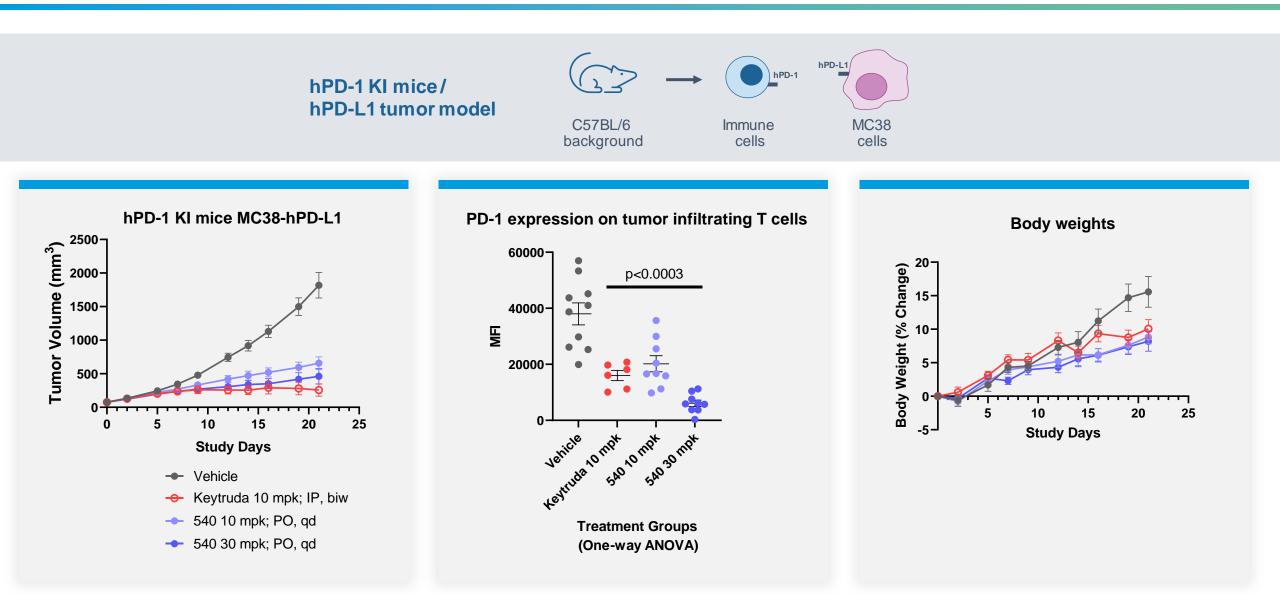
KZR-540: Highly Selective and Robust PD-1 Downregulation In Vitro



KZR-261

KZR-540 (PD-1)

Oral Administration of KZR-540 Has Shown Similar Efficacy to Traditional Anti-PD-1 Monoclonal Antibodies





နှင့်နိုင်

The Sec61 Translocon Protein Secretion Platform

Leadership in research on a unique drug target with multiple therapeutic applications

KZR-261: First Clinical Candidate Targeting Oncogenic Drivers and Multiple Immune Checkpoints

Inhibition of multiple secreted/membrane proteins; potential combination therapy in a single molecule

KZR-540: Novel Oral Small Molecule Inhibitor of PD-1 Expression

Potential I/O partner of choice for all-oral combination therapies

Ability to Develop Small Molecule Therapeutics Against Validated Targets Unique small molecule replacements for validated biologics across therapeutic areas

Kezar's Protein Secretion Platform

KEZAR LIFE SCIENCES





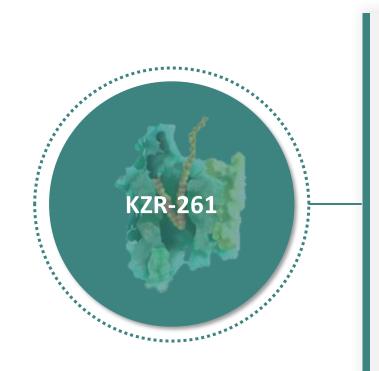


KZR-261 CLINICAL UPDATE



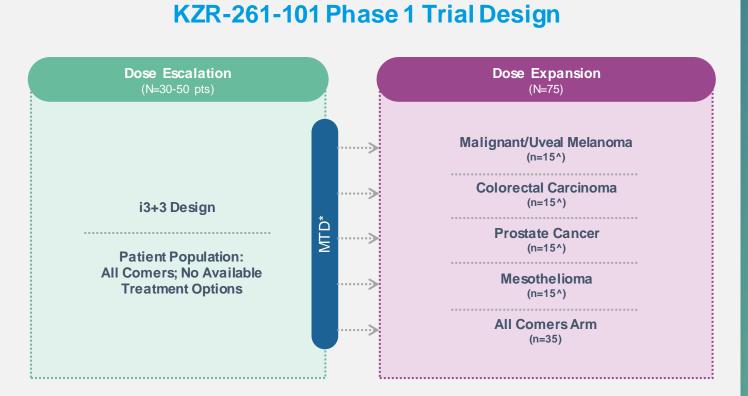
Noreen R. Henig, MD Chief Medical Officer





- Tumor cells utilize the Sec61 translocon for the transit of secreted and transmembrane proteins used for proliferation, metastasis and immune evasion
- ~10% inhibition of Sec61 with KZR-261 potently inhibits expression of multiple oncogenic factors (e.g. EGFR), immune checkpoints (e.g. PD-1) and microenvironment factors (e.g. VEGF)
- Broad anti-tumor activity in preclinical models including chemo-resistant in vivo models
- Profile supports potential for monotherapy and combination partner in multiple tumor settings; Ph 1 trial investigating monotherapy activity
- Combination therapy in one drug which can potentially treat a variety of hematologic and solid tumors

KZR-261: First-in-Human Trial With Anticipated Dose Escalation Completion in 2H 2023



NCT05047536

*Maximum Tolerated Dose

^Fifteen subjects will be enrolled in each tumor specific cohort and may be increased to 35 subjects if sufficient efficacy is observed.

& Goals Key Outcome Measures

Measures

Rey Outcome measures

- Recommended Phase 2 dose (RP2D)
- Anti-tumor efficacy
- Biomarker validation

Goals for KZR-261-101

- Establish single agent activity
- Maximize opportunities for success for KZR-261
- Identify/confirm potential predictive biomarkers

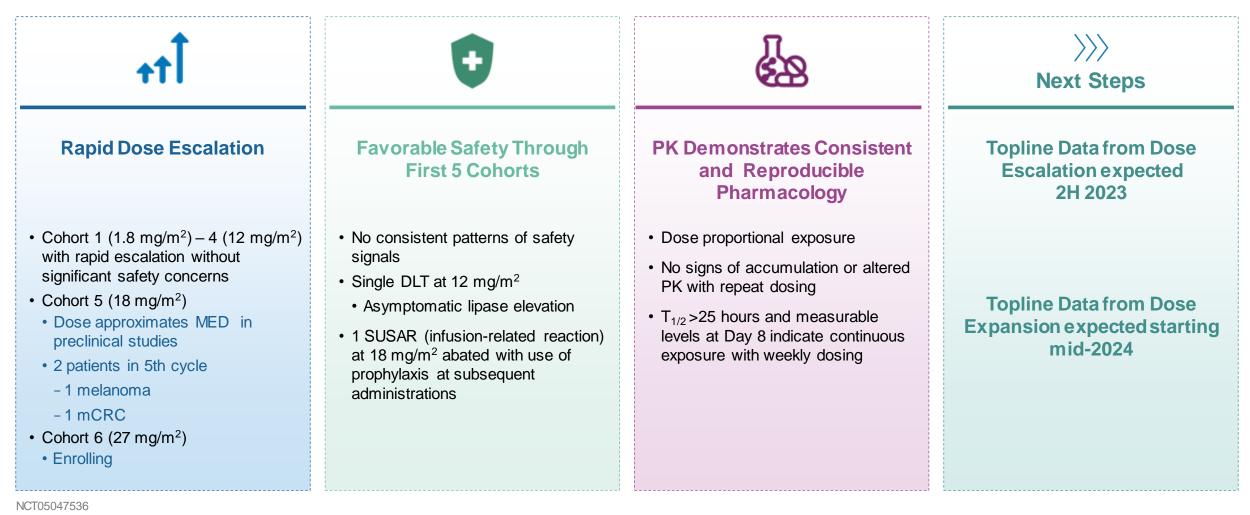
Overview of Protein Secretion Inhibition

Overviewof

KZR-261

Overviewof KZR-540 (PD-

KZR-261-101: Encouraging Early Safety and PK Data from Phase 1 Study



Abbreviations: DLT, dose-limiting toxicity; mCRC, metastatic colorectal cancer; MED, minimum effective dose; PK, pharmacokinetics; SUSAR, Suspected Unexpected Serious Adverse Reaction.

Overview of Protein Secretion Inhibition

Overview of KZR-540 (PD-1)

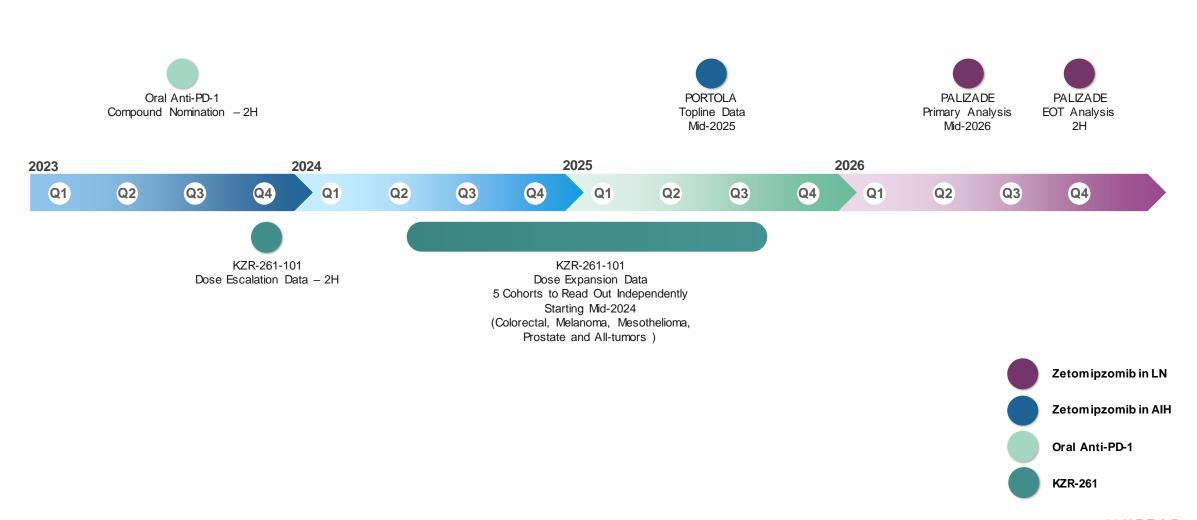


CLOSING REMARKS



John Fowler, MBA Chief Executive Officer





Zetomipzomib's Pipeline in a Drug: Promising Potential Across Multiple Chronic Autoimmune and Immune-Mediated Diseases



Overview of Zetomipzomib

Overview of MISSION Ph. 2 in LN Overview of PALIZADE Ph. 2b in Active LN Overview of AIH & PORTOLA Ph. 2a in AIH Differentiation & Pipeline in a Product Potential



KZR-261: A Differentiated Approach with the Potential For Very Large Market Opportunity

Potential to Overcome **Novel Mechanism of Action Chemo Resistance** Novel Sec61 translocon MOA Broad activity against antiprovides opportunity to proliferation, checkpoint pursue additional solid tumor inhibition, and TME indications lacking viable modulation allows for the treatment option beyond potential to overcome chemo and traditional I/O resistance mechanisms agents

Current Chemotherapy and Checkpoint Inhibitor Market

- Current market for traditional chemotherapy agents generating >\$42B⁽¹⁾ in sales
- PD-1 / PD-L1 agents have cumulative sales of >\$30B⁽²⁾, underscoring the importance for more convenient small molecule additional I/O therapeutics

Patient-Focused

- Patient burden from toxicity profile of multiple lines of therapy or combination therapies remains large
- KZR-261, due to its broad activity, has the potential of combination therapy in a single agent

1. Data Bridge Market Research 2. Expert Market Research

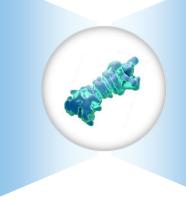
Abbreviations: I/O, immuno-oncology; MOA, mechanismof action; TME, tumor microenvironment.

Overview of KZR-540 (PD-1



Pursuing Paradigm Shifts in Immunology and Oncology

Selective Immunoproteasome Inhibition: Zetomipzomib (KZR-616)



- Leads to potent immunomodulation without evidence of immunosuppression
- · No immediate rebound of symptoms of disease activity
- Steroid sparing potential
- Pipeline in a product potential across several autoimmune indications:
 - MISSION Ph2 (LN) completed in 2022
 - PORTOLA PoC (AIH) initiated in 1H 2023
 - PALIZADE Ph2b (LN) to begin in 1H 2023

Protein Secretion Inhibition: KZR-261 & Discovery Program



- Potential to be first-in-class inhibitor of Sec61 translocon
- Shows broad anti-tumor potential by controlling proliferation, metastasis and immune evasion in preclinical cancer models
- KZR-261-101 dose-escalation ongoing with expected readout in 2H 2023
- More compounds in pre-clinical development for single- and multi-target oncology indications, offering additional upside

Questions & Answers



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