

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, D.C. 20549**

FORM 8-K

**CURRENT REPORT
Pursuant to Section 13 or 15(d)
of the Securities Exchange Act of 1934**

Date of Report (Date of earliest event reported): January 9, 2023

KURA ONCOLOGY, INC.
(Exact name of Registrant as Specified in Its Charter)

Delaware (State or Other Jurisdiction of Incorporation)	001-37620 (Commission File Number)	61-1547851 (IRS Employer Identification No.)
12730 High Bluff Drive, Suite 400, San Diego, CA (Address of Principal Executive Offices)		92130 (Zip Code)

Registrant's Telephone Number, Including Area Code: (858) 500-8800

N/A
(Former Name or Former Address, if Changed Since Last Report)

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions (see General Instructions A.2. below):

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
- Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
- Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
- Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Securities registered pursuant to Section 12(b) of the Act:

Title of each class	Trading Symbol(s)	Name of each exchange on which registered
Common Stock, par value \$0.0001 per share	KURA	The Nasdaq Global Select Market

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (§230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (§240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 2.02 Results of Operations and Financial Condition.

On January 9, 2023, Kura Oncology, Inc. (the "Company") announced that its preliminary unaudited cash, cash equivalents and short-term investments as of December 31, 2022 were approximately \$438 million.

The preliminary unaudited cash position discussed above is subject to the completion of financial closing procedures and other developments that may arise between now and the time the financial results for the fourth quarter of 2022 are finalized, as well as the completion of the audit of the 2022 financial statements. Therefore, actual results may differ materially from these estimates. In addition, the above estimates do not present all information necessary for an understanding of the Company's financial condition as of December 31, 2022.

The information contained in this Current Report on Form 8-K under Item 2.02 is being furnished and shall not be deemed to be "filed" for the purposes of Section 18 of the Securities and Exchange Act of 1934, as amended (the "Exchange Act"), or otherwise subject to the liabilities of that section and will not be incorporated by reference into any filing by the Company under the Securities Act of 1933, as amended, or the Exchange Act, unless specifically identified as being incorporated therein by reference.

Item 8.01 Other Events.

On January 9, 2023, the Company updated its corporate presentation materials (the "Presentation"). A copy of the Presentation is attached hereto as Exhibit 99.1 and incorporated herein by reference.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits.

<u>Exhibit Number</u>	<u>Description</u>
99.1	Presentation Materials of Kura Oncology, Inc.
104	Cover Page Interactive Data File (embedded within the Inline XBRL document)

SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

KURA ONCOLOGY, INC.

Date: January 9, 2023

By: /s/ Teresa Bair

Teresa Bair
Chief Legal Officer

DEVELOPING PRECISION MEDICINES FOR THE TREATMENT OF CANCER

Corporate Presentation – January 2023



FORWARD-LOOKING STATEMENTS

This presentation contains forward-looking statements. Such statements include, but are not limited to, statements regarding our research, preclinical and clinical development activities, plans and projected timelines for ziftomenib, tipifarnib and KO-2806, plans regarding regulatory filings, our expectations regarding the relative benefits of our product candidates versus competitive therapies, and our expectations regarding the therapeutic and commercial potential of our product candidates. The words "believe," "may," "should," "will," "estimate," "promise," "plan", "continue," "anticipate," "intend," "expect," "potential" and similar expressions (including the negative thereof), are intended to identify forward-looking statements. Because such statements are subject to risks and uncertainties, actual results may differ materially from those expressed or implied by such forward-looking statements. Risks that contribute to the uncertain nature of the forward-looking statements include: our preclinical studies and clinical trials may not be successful; the U.S. Food and Drug Administration (FDA) may not agree with our interpretation of the data from clinical trials of our product candidates; we may decide, or the FDA may require us, to conduct additional clinical trials or to modify our ongoing clinical trials; we may experience delays in the commencement, enrollment, completion or analysis of clinical testing for our product candidates, or significant issues regarding the adequacy of our clinical trial designs or the execution of our clinical trials may arise, which could result in increased costs and delays, or limit our ability to obtain regulatory approval; the commencement, enrollment and completion of clinical trials and the reporting of data therefrom; the COVID-19 pandemic may disrupt our business and that of the third parties on which we depend, including delaying or otherwise disrupting our clinical trials and preclinical studies, manufacturing and supply chain, or impairing employee productivity; our product candidates may not receive regulatory approval or be successfully commercialized; unexpected adverse side effects or inadequate therapeutic efficacy of our product candidates could delay or prevent regulatory approval or commercialization; and we may not be able to obtain additional financing. Additional risks and uncertainties may emerge from time to time, and it is not possible for Kura's management to predict all risk factors and uncertainties.

All forward-looking statements contained in this presentation speak only as of the date on which they were made. Other risks and uncertainties affecting us are described more fully in our filings with the Securities and Exchange Commission. We undertake no obligation to update such statements to reflect events that occur or circumstances that exist after the date on which they were made.



INVESTMENT HIGHLIGHTS

Targeted Oncology	Advancing a pipeline of novel therapies, forging new scientific and clinical paths to give patients a better chance for long-term durable remissions
Proprietary Pipeline	<p>Menin Inhibitor Program (ziftomenib)</p> <ul style="list-style-type: none"> • Potential to address 35% or more of acute leukemias • Encouraging safety, tolerability and clinical activity observed in relapsed/refractory AML patients • 30% CR rate among 20 patients with NPM1 mutations at 600 mg RP2D • Phase 2 registration-directed trial in NPM1-mutant AML expected to begin in Q1 2023 • Combination studies with standards of care expected to begin in 1H 2023 <p>Farnesyl Transferase Inhibitor Programs (tipifarnib & KO-2806)</p> <ul style="list-style-type: none"> • Durable responses as a monotherapy in recurrent/metastatic HRAS-mutant HNSCC patients • Proof of mechanism demonstrated in combination with alpelisib in PIK3CA-dependent HNSCC • Potential to prevent emergence of resistance to osimertinib in EGFR-mutant NSCLC • IND for KO-2806, next-generation FTI, on track for Q1 2023
Strong Financials	<ul style="list-style-type: none"> • \$438 million in Cash as of December 31, 2022* • \$25 million equity investment from Bristol Myers Squibb and \$125 million term loan facility, if fully drawn, extend cash runway into 2026

* Unaudited, preliminary cash, cash equivalents and short-term investments as of 12/31/22



KURA LEADERSHIP TEAM AND BOARD OF DIRECTORS

Leadership Team



Troy Wilson, Ph.D., J.D.
President &
Chief Executive Officer



Teresa Bair, J.D.
Chief Legal Officer



Stephen Dale, M.D.
Chief Medical Officer



Kirsten Flowers
Chief Commercial &
Corporate Strategy Officer



Kathy Ford
Chief Operating
Officer



Pete De Spain
Senior Vice President, Investor
Relations & Corporate
Communications



Tom Doyle
Senior Vice President,
Finance & Accounting



Mollie Leoni, M.D.
Senior Vice President,
Clinical Development

Board of Directors

Troy Wilson, Ph.D., J.D.
Chairman

Carol Schafer

Faheem Hasnain
Lead Independent Director

Steven Stein, M.D.

Helen Collins, M.D.

Diane Parks

Thomas Malley

Mary Szela

DRUG CANDIDATE PIPELINE



PROGRAM	CLINICAL TRIAL	STUDY STARTUP	PHASE 1	REGISTRATION DIRECTED
ZIFTOMENIB Menin Inhibitor	KOMET-001 Monotherapy	NPM1-mutant acute myeloid leukemia (AML)	Non-NPM1-m/KMT2A-r AML	KMT2A-rearranged ALL
	KOMET-007/008 Combination with standards of care	NPM1-mutant AML	KMT2A-rearranged AML	
TIPIFARNIB Farnesyl Transferase Inhibitor (FTI)	AIM-HN Monotherapy	HRAS-mutant head and neck squamous cell carcinoma (HNSCC)*		
	KURRENT-HN Combination with alpelisib	PIK3CA-dependent HNSCC	HRAS-dependent HNSCC	
	KURRENT-LUNG Combination with osimertinib	EGFR-mutant NSCLC		
KO-2806 Next-Generation FTI	Combination with targeted therapies	Solid Tumors		

* Trial closed to further enrollment

ZIFTOMENIB: MENIN-KMT2A/MLL INHIBITOR IN ACUTE LEUKEMIAS

NPM1-MUTANT AND KMT2A-REARRANGED AML REPRESENT AREAS OF SIGNIFICANT UNMET NEED



No FDA-Approved Targeted Therapies Exist Today

NPM1-mutant AML

~ 6,000 new cases annually in the U.S.¹



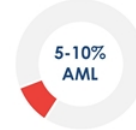
Adult patients with NPM1-mutant AML and select co-mutations and/or relapsed/refractory disease are associated with poor prognosis²

5-year Overall Survival ~ 50%³

Median Overall Survival in patients with R/R NPM1 AML is ~ 6.1 mo.⁴

KMT2A-rearranged AML

~ 1,000-2,000 new cases annually in U.S.¹



Adult patients with KMT2A-rearranged AML have poor prognosis with high rates of resistance and relapse following current standard of care^{5,6}

5-year Overall Survival < 20%⁵

Median Overall Survival in patients with R/R KMT2A-r AML is 6 mo. following 2L treatment and 2.4 mo. following 3L treatment⁵

¹ SEER statistics for AML in the US, accessed April 2020.

² Döhner et al. *Blood*. 2017 Jan 26;129(4):424-447.

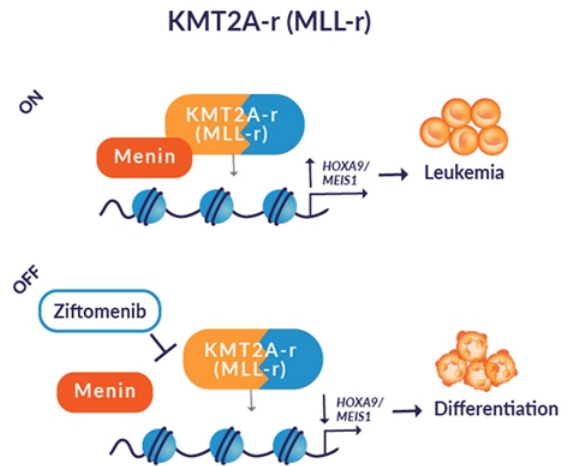
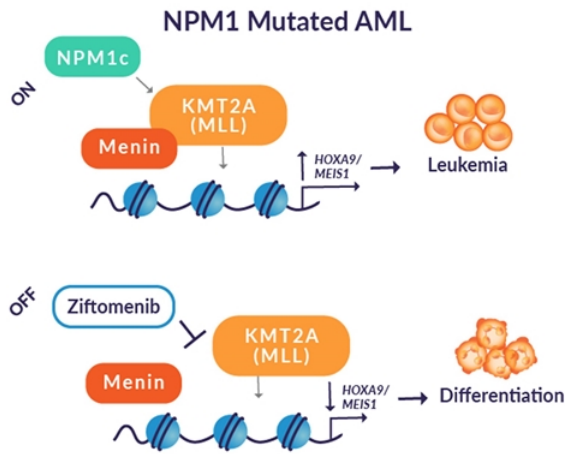
³ Angenendt L, et al. *J Clin Oncol*. 2019;37(29):2632-2642.

⁴ Venugopal S, et al. ASH Abstract 2287, 2021.

⁵ Issa GC, et al. *Blood Cancer J*. 2021;11(9):162.

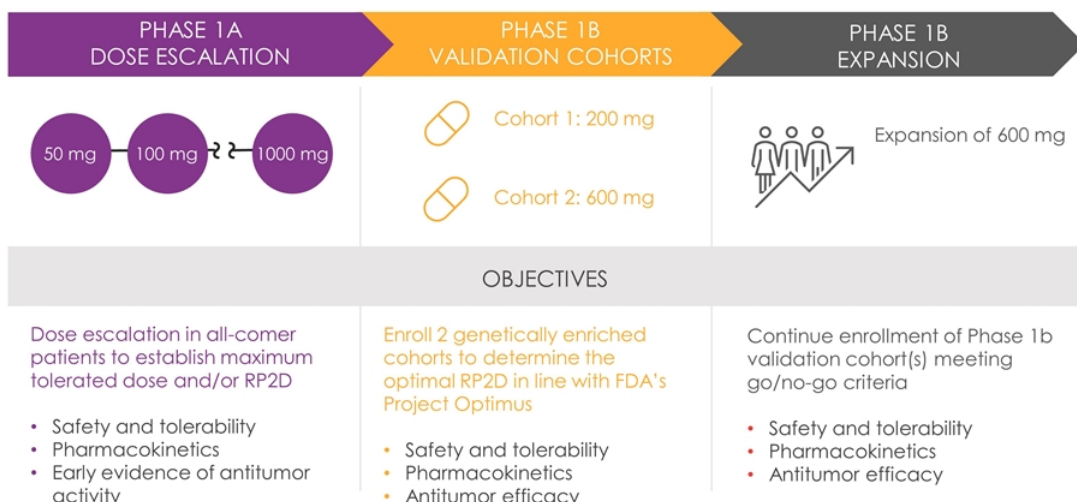
⁶ Vetro C, et al. *Cancer Genet*. 2020;240:15-22.

ZIFTOMENIB IS A POTENT AND SELECTIVE ORAL INHIBITOR OF THE MENIN-KMT2A/MLL COMPLEX



Kühn MW, et al. *Cancer Discov.* 2016;6(10):1166-1181
Thorsteinsdóttir U, et al. *Mol Cell Biol.* 2001;21(1):224-234
Patel SS, et al. *Curr Hematol Malign Rep.* 2020;15(4):350-359
Brunetti L, et al. *Cancer Cell.* 2018;34(3):499-512

KOMET-001 PHASE 1 CLINICAL TRIAL OF ZIFTOMENIB IN PATIENTS WITH RELAPSED OR REFRACTORY (R/R) AML



ZIFTOMENIB DEMONSTRATES ENCOURAGING SAFETY PROFILE AND TOLERABILITY IN PHASE 1B



≥Gr 3 TEAEs Occurring in >10% Participants (Regardless of Causal Assessment)		
	200 mg	600 mg
NPM1-m	(N = 4)	(N = 20)
	0	0
KMT2A-r	(N = 13)	(N = 16)
Differentiation Syndrome	4 (30.8)	4 (25.0)
Febrile Neutropenia	0	2 (12.5)

Erba *et al.*, ASH 2022 #64 (preliminary data as of October 24, 2022)

CHARACTERIZATION OF DIFFERENTIATION SYNDROME WITH ZIFTOMENIB



Any Grade and \geq G3 DS in Phase 1a/b population		
	200 mg N = 17, n (%)	600 mg N = 36, n (%)
<i>NPM1</i> -m (all grades)	0/4 (0)	4/20 (20.0)
\geq Gr3	0/4 (0)	1/20 (5.0)
<i>KMT2A</i> -r (all grades)	5/13 (38.5)	6/16 (37.5)
\geq Gr3	4/13 (30.8)	4/16 (25.0)

Patients with DS event at 600 mg
ORR: 3/4 (75%) for *NPM1*-m; 1/6 (16.7%) for *KMT2A*-r

Extramedullary involvement has a significantly higher frequency in patients with *KMT2A*(*MLL*) rearrangements vs. all others, including *NPM1*¹

Erba et al. ASH 2022 #64 [preliminary data as of October 24, 2022]

¹ Fianchi et al. *Mediterr J Hematol Infect Dis.* 2021; 13(1): e2021030; DOI: <https://doi.org/10.4084/MJHID.2021.030>

ZIFTOMENIB DEMONSTRATES ENCOURAGING ANTILEUKEMIC ACTIVITY AT 600 MG



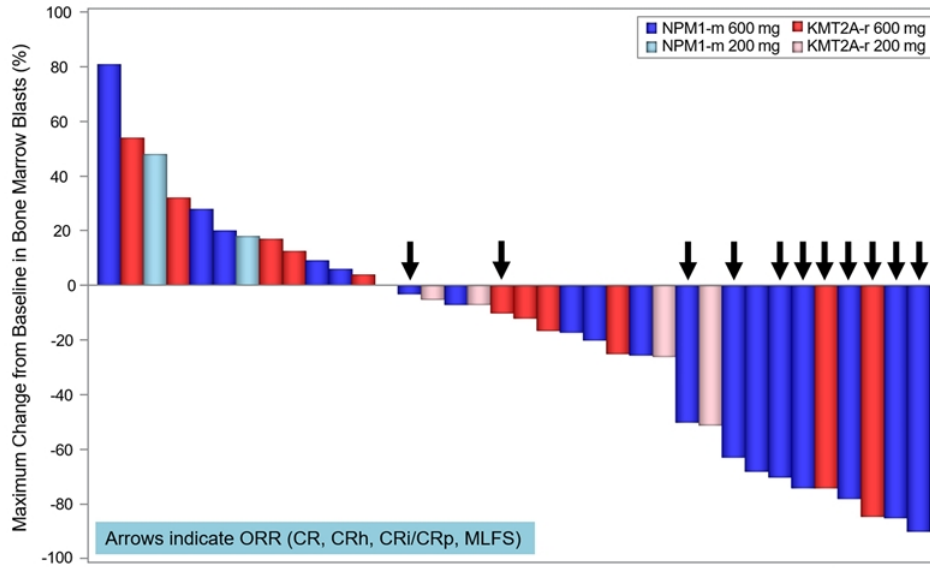
Best Overall Response	200 mg	600 mg
NPM1-m Phase 1a + 1b	(n=6)	(n=20)
CR	1 (16.7)	6 (30.0)
CR/CRh	1 (16.7)	6 (30.0)
CRC	1 (16.7)	7 (35.0)
MRD negativity	1 (100.0)	3 (42.9) ¹
ORR	2 (33.3)	8 (40.0)
KMT2A-r Phase 1a + 1b	(n=14)	(n=18)
CR/CRh	0	1 (5.6)
CRC	0	2 (11.1)
MRD negativity	0	2 (100.0)
ORR	0	3 (16.7)

- 2 pts had concurrent IDH1/2
- 2 pts had both IDH1/2 and FLT3-ITD/TKD

Of IDH1/2 co-mutants (7), 57% experienced a CR

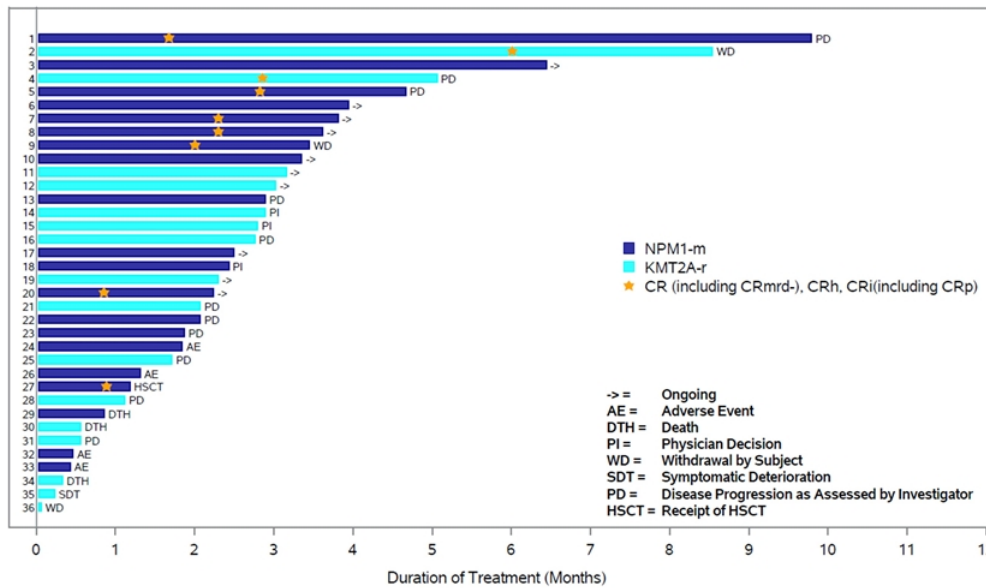
¹MRD was assessed for 5/7 CRC patients; 3 of those 5 patients (60%) tested were MRD negative
 CRc includes CR, CRh, CRi, CRp
 ORR includes CR, CRh, CRi, CRp, MLFS

DECREASING BONE MARROW BLAST COUNTS CONSISTENTLY REPORTED



Erba et al. ASH 2022 #64 [preliminary data as of October 24, 2022]

CLINICAL ACTIVITY OF ZIFTOMENIB OPTIMAL AT 600 MG ORAL, DAILY DOSING



Preliminary data as of October 24, 2022

ZIFTOMENIB INDUCES RAPID AND EXTENSIVE DIFFERENTIATION OF NPM1-MUTANT LEUKEMIA



61 yo male with NPM1-m, FLT3-ITD, and IDH2 AML

Baseline bone marrow blasts: 75%

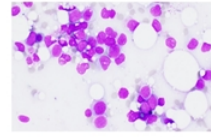
Prior therapies 7+3, Midostaurin, HiDAC, gilteritinib

Initiated ziftomenib at 600 mg

DS during C1 Bone pain, ↓BP
WBC ↑58K

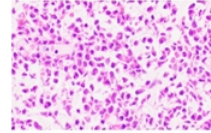
Response

- MLFS after Cycle 1
- CR after Cycle 3



Baseline Bone Marrow

Cellular BM (40%) with 75% blasts consistent with relapsed AML



Cycle 1 Day 28 ziftomenib

Hypercellular BM (>95%) with striking granulocytic hyperplasia and <1% blasts

Erba et al. ASH 2022 #64 (preliminary data as of October 24, 2022)

EVIDENCE OF CLINICAL BENEFIT IN PATIENTS WITH NPM1-MUTANT AML



44 yo female with NPM1-m, DNMT3A and IKZF1 AML

Baseline bone marrow blasts: 14%

Prior therapies	Cytarabine + anthracycline NOS; mitoxantrone, etoposide + cytarabine; HiDAC+ fludarabine + melphalan; 1st SCT + cyclophosphamide; lenalidomide + bortezomib; decitabine + venetoclax + gilteritinib; ASP1235; busulfan + fludarabine; 2nd SCT + methotrexate
Initiated ziftomenib at 200 mg	
No DS	Experienced TRAEs of Gr4 lipase increased and Gr3 pancreatitis at C2D28; Gr3 pulmonary embolus during C17
Response	<ul style="list-style-type: none"> • CRmrd- after Cycle 1 • CRmrd- maintained and currently at Cycle 31

22 yo male with NPM1-m AML

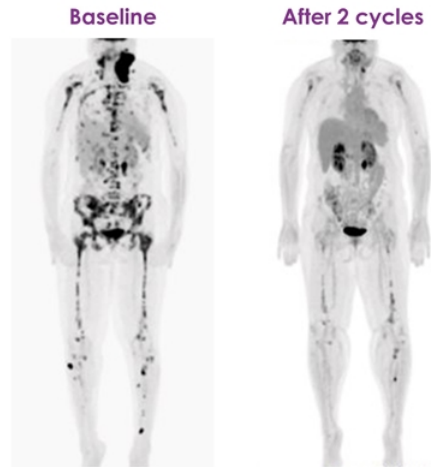
Baseline bone marrow blasts: 90%

Prior therapies	Cytarabine + idarubicin (7+3)
Initiated ziftomenib at 600 mg	
DS during Cycle 1 (Gr2; non-serious)	Non-cardiac chest and bone pain; ↓ fibrinogen (89 from 456 at baseline)
Response	<ul style="list-style-type: none"> • CRmrd- after Cycle 1 • Transplant scheduled

Preliminary data as of October 24, 2022

EVIDENCE OF CLINICAL BENEFIT: EXAMPLE OF A KMT2A-REARRANGED NON-RESPONDING PATIENT

47 yo female with KMT2A-r, TERT and BRAF AML Baseline bone marrow blasts: 52%	
Prior therapies	ddAC + paclitaxel, CPX-35, SCT, Aza, FLAG Ida-ven, DLI, RT - gums
Initiated ziftomenib at 200 mg	
DS during C1	Muscle and EMD pain, ↑temp, ↓BP, WBC ↑ 5.2
Response	<ul style="list-style-type: none"> • Bone marrow blasts 2% end of Cycle 2 • Best overall response for the patient of SD due to residual extramedullary disease



Erba et al. ASH 2022 #64 (preliminary data as of October 24, 2022)

SUMMARY: KOMET-001 PHASE 1 CLINICAL TRIAL OF ZIFTOMENIB



Ziftomenib demonstrates an encouraging safety profile and tolerability

- Reported events most often consistent with features and manifestations of underlying disease
 - No evidence of drug-induced QTc prolongation
 - Differentiation syndrome, an on-target effect, manageable with mitigation strategy

Clinical activity of ziftomenib monotherapy is optimal at the 600 mg daily dose

- Positive *NPM1*-m benefit/risk balance with pronounced activity and 30% CR rate (n=20)
- High levels of ziftomenib tissue penetration likely drive clearance of extramedullary disease

Monotherapy data supportive of combination strategies

- No predicted adverse drug-drug interactions
- Optimization of *KMT2A*-r benefit/risk planned via rational combination strategies, to maximize patients' time on treatment
- Oral, QD dosing allows for convenient administration and combination with standards of care

Erba et al. ASH 2022 #64 (preliminary data as of October 24, 2022)

ZIFTOMENIB CLINICAL DEVELOPMENT PATH



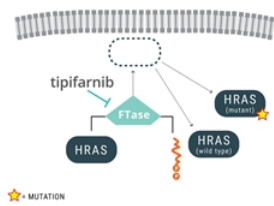
DEVELOPMENT APPROACH	STUDY STARTUP	PHASE 1	REGISTRATION DIRECTED	TRIAL
MONOTHERAPY (Relapsed/refractory)	NPM1-mutant acute myeloid leukemia (AML) Non-NPM1-m/KMT2A-r AML KMT2A-rearranged ALL			
COMBINATION WITH VENETOCLAX + AZACYTIDINE (Relapsed/refractory, frontline)	NPM1-mutant AML KMT2A-rearranged AML			
COMBINATION WITH CYTARABINE + DAUNORUBICIN (7+3) (Frontline)	NPM1-mutant AML KMT2A-rearranged AML			
COMBINATION WITH GILTERITINIB (Relapsed/refractory)	NPM1-mutant AML			
COMBINATION WITH FLAG-IDA (Relapsed/refractory)	NPM1-mutant AML KMT2A-rearranged AML			
COMBINATION WITH IDAC/LDAC (Relapsed/refractory)	NPM1-mutant AML KMT2A-rearranged AML			
POST-TRANSPLANT MAINTENANCE	NPM1-mutant AML KMT2A-rearranged AML			Investigator-sponsored studies
COMBINATION WITH FLA (Relapsed/refractory)	Pediatric AML & ALL			
COMBINATION WITH BV-DAM (Frontline)	Pediatric ALL			

FARNESYL TRANSFERASE INHIBITOR PROGRAMS

EVOLUTION IN THE THERAPEUTIC APPLICATIONS OF FARNESYL TRANSFERASE INHIBITORS



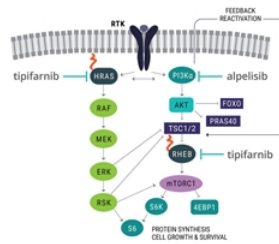
Direct Inhibition of Oncogenic Proteins



- Monotherapy activity in mutant tumors



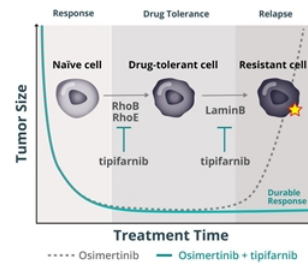
Overcoming Drug Resistance



- Overcome drug resistance to PI3Ka inhibitor in HNSCC



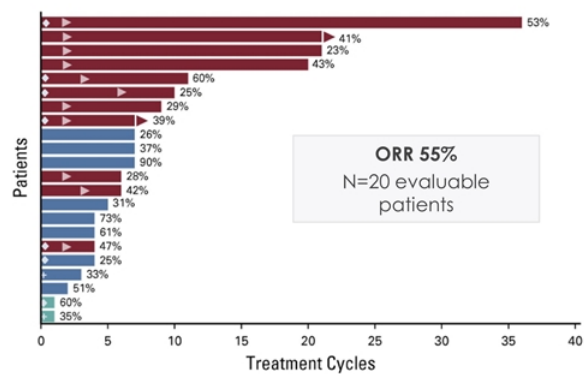
Preventing Emergence of Resistance



- Prevent emergence of resistance to EGFR inhibitor in NSCLC

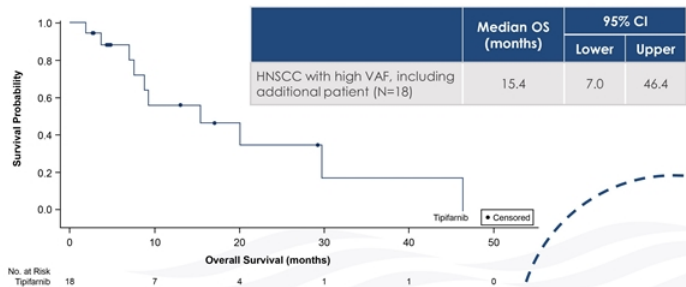
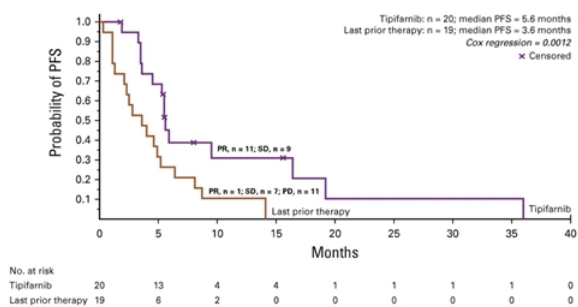


TIPIFARNIB DEMONSTRATES DURABLE ANTI-TUMOR ACTIVITY IN PATIENTS WITH RECURRENT OR METASTATIC HRAS-MUTANT HNSCC



Red, PR; blue, SD; green, not evaluable for efficacy; diamond, patient initiated treatment at 600 mg twice a day; cross, patient withdrew consent; arrow in bar, start of response; arrow, active treatment. Numbers at the end of the bars represent VAF for each patient.

Ho, et al. *J Clin Oncol*. 2021 June 10;39(17):1856-1864. doi: 10.1200/JCO.20.02903.
 Ho et al. ASCO 2020 #6504 (preliminary exploratory data as of 9/30/19)
 Efficacy-evaluable patients with HRAS mutant variant allele frequency (VAF) ≥ 20% and serum albumin ≥ 3.5 g/dL, or HRAS VAF ≥ 35%
 One patient treated off-protocol through compassionate use

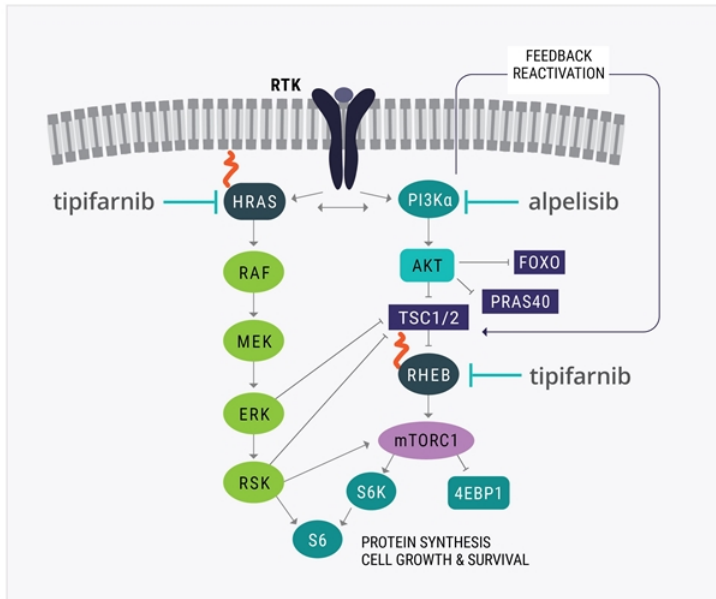


AIM-HN: REGISTRATION-DIRECTED TRIAL OF TIPIFARNIB

- Tipifarnib granted Breakthrough Therapy Designation for the treatment of patients with HRAS-mutant HNSCC based on data from RUN-HN study
- AIM-HN is a global, multi-center, registration-directed trial in patients with recurrent or metastatic HNSCC after one prior line of platinum therapy
- Evidence of meaningful clinical activity observed in AIM-HN; however, trial closed to further enrollment due to significant feasibility challenges
- Currently evaluating clinical data from RUN-HN and AIM-HN to inform future development of the program
- Given significant overlap between patients with HRAS overexpression and mutation, HRAS-mutant HNSCC patients in the U.S. may be eligible to enroll in ongoing KURRENT-HN study



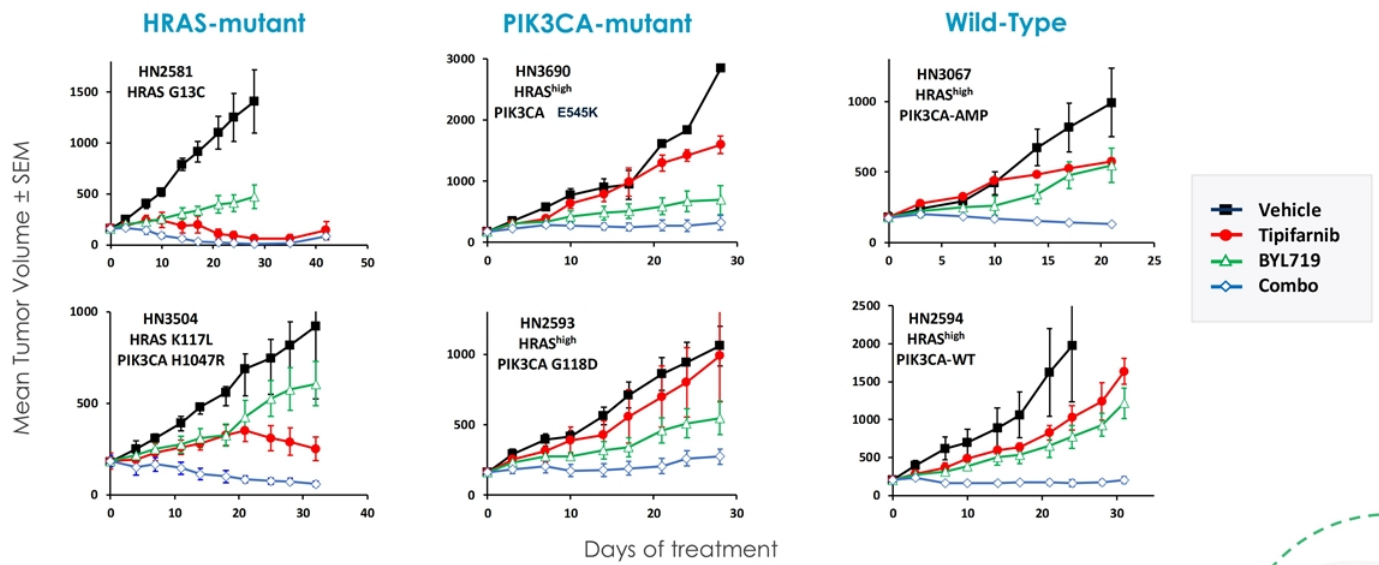
TIPIFARNIB HAS POTENTIAL TO OVERCOME RESISTANCE TO TREATMENT WITH PI3K α INHIBITORS IN HNSCC



- The PI3K pathway is the most frequently activated pathway in HNSCC
 - ~30% of tumors harbor *PIK3CA* mutation or amplification
- Feedback reactivation of PI3K –mTOR signaling drives innate resistance to PI3K inhibitors
 - Necessitates development of rational combination strategies
- Tipifarnib blocks hyperactivated growth factor signaling via multiple farnesylation-dependent proteins, including HRAS and RHEB



COMBINATIONS OF TIPIFARNIB AND PI3K α INHIBITOR DEMONSTRATE ROBUST ACTIVITY IN HNSCC PDX MODELS



Malik et al. EORTC-NCI-AACR 2020 #159
Tipifarnib used at reduced dose to simulate potential lower doses in combination (80→60mg/kg BID)
BYL-719 used at reduced dose to simulate potential lower doses in combination (60→40mg/kg QD)



COMBINATION OF TIPIFARNIB AND PI3K α INHIBITOR HAS SIGNIFICANT THERAPEUTIC POTENTIAL IN HNSCC

- HRAS-MAPK and PI3K-mTOR are complementary pathways in HNSCC
 - Overexpression of WT HRAS reported to induce resistance to PI3K α inhibition
 - HRAS is reported to preferentially activate PI3K (vs. KRAS; vs. MAPK)
- HRAS mutation/overexpression and PIK3CA mutations/amplifications account for up to 45% of HNSCC¹
 - PIK3CA mutations/amplification: 30-40% (25% estimated overlap with HRAS-overexpressing tumors)
 - HRAS overexpression: 20-30%
 - HRAS mutations: 4-8% (83% overexpress HRAS)
- Preclinical data is supportive of the combination; enhanced activity observed in both HRAS-mutant/overexpressed and PIK3CA-mutant/amplified populations of HNSCC
- Preliminary clinical data demonstrate that tipifarnib plus alpelisib can induce a durable clinical response in PIK3CA-dependent HNSCC¹

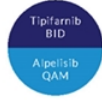
¹ Saifer H et al. ENA 2022 PB041

References: Yan J et al (1998) *J Bio Chem* 273:24052 ; Gupta S et al (2007) *Cell* 129:957 ; Zhao L et al (2008) *Proc Natl Acad Sci* 105:2652

KURRENT-HN: PHASE 1/2 COMBINATION TRIAL OF TIPIFARNIB AND ALPELISIB IN PATIENTS WITH HNSCC



- HRAS OVEREXPRESSION
- PIK3CA AMPLIFICATIONS AND/OR MUTATIONS



Dosed BID on alternating weeks (Days 1-7 and 15-21) in a 28-day cycle

Dosed each morning in a 28-day cycle

KURRENT-HN TRIAL OBJECTIVES

Dose escalation study to determine recommended dosing regimen, and evaluate safety, tolerability, and antitumor activity, of combination of tipifarnib with alpelisib

Primary objectives

- Dose and regimen
- Safety and tolerability

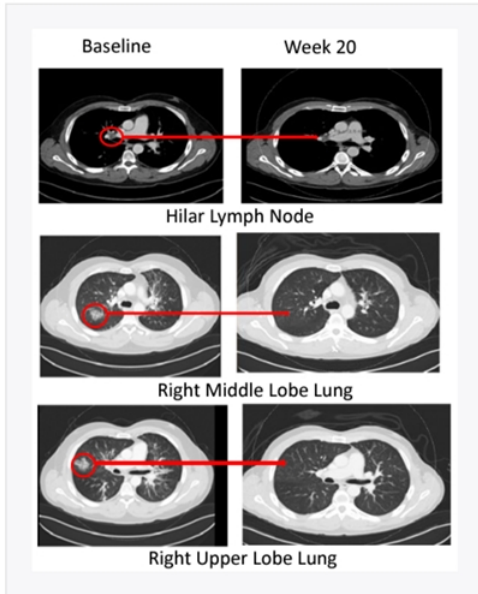
Secondary objectives

- Objective response rate
- Disease control rate
- Pharmacokinetics
- Progression-free survival
- Overall survival

Phase 1 clinical trial of tipifarnib and alpelisib in patients with recurrent/metastatic HRAS-overexpressed and/or PIK3CA-amplified and/or PIK3CA-mutated HNSCC

- Clinical collaboration to evaluate tipifarnib in combination with alpelisib for the treatment of patients with HNSCC whose tumors have HRAS overexpression and/or PIK3CA mutation and/or amplification
- Under the collaboration, Kura sponsors the trial and supplies tipifarnib and Novartis supplies alpelisib
- Enrolling patients in PIK3CA-dependent and HRAS-overexpression cohorts

DURABLE CLINICAL RESPONSE OBSERVED IN PATIENT WITH PIK3C α -DEPENDENT HNSCC



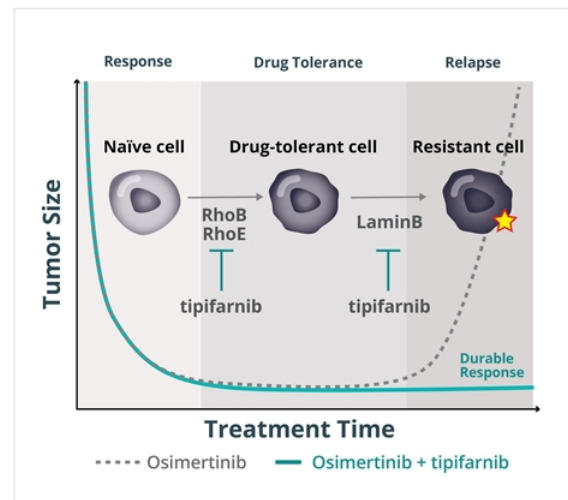
- 35yo, male, nonsmoker, HPV16 positive
- SCC of tonsil Stage III cT4N2M0; PD-L1 CPS = 60
- Prior Treatments
 - CDDP/rad for 1 mo (Nov-Dec2019), BOR UNK
 - Cemiplimab/ISA101b (Jun-Nov2021), BOR PD
- PIK3Ca R88Q mutation (44%) and HRAS OE (3+ staining in 100% of tumor cells) by IHC from May 2021 biopsy
- DL1 tipifarnib, DL2 alpelisib; completed 6 cycles
- G1/2 TRAE, G3 lipase elevation; presented clinical benefit and improvement in respiratory symptoms
- 81% reduction in target lesions after 1 cycle of treatment
- 84% reduction in target lesions after 3 cycles (BOR)
- Continued on-study for >27 weeks maintaining QoL

Soifer H et al, ENA 2022 PB041; Data cut as of 14Sep2022; Preliminary raw data

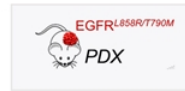
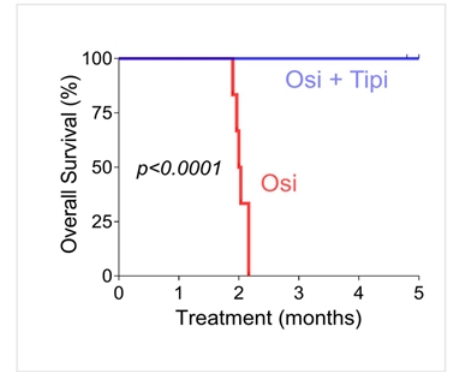
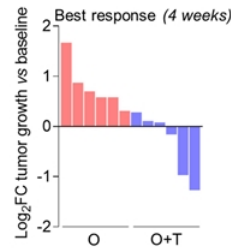
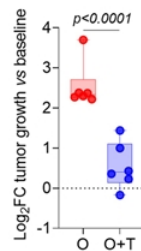
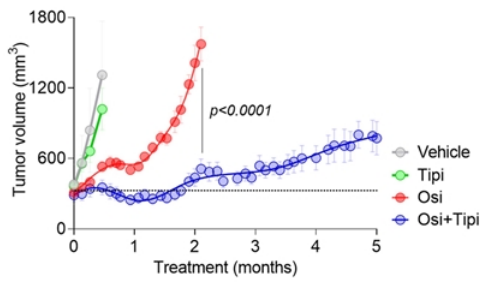
TIPIFARNIB PREVENTS EMERGENCE OF RESISTANCE TO OSIMERTINIB IN VIVO



- Drug-tolerant cells (DTCs) arise within days of osimertinib exposure
- DTCs are characterized by Rho pathway activation
- RhoB, RhoE and LaminB are farnesylation-dependent proteins that are selectively upregulated in DTCs
- Genetic or pharmacologic inhibition of these targets kills DTCs and prevents the emergence of osimertinib-resistant mutant cells
- Combination of tipifarnib and osimertinib delays relapse *in vivo*



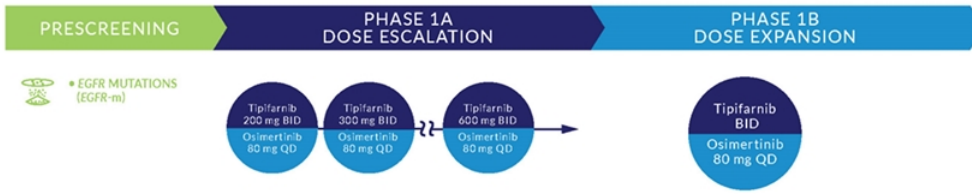
TIPIFARNIB PREVENTS EMERGENCE OF RESISTANCE TO OSIMERTINIB IN VIVO



- Preclinical data generated through a collaboration with INSERM (the French National Institute of Health and Medical Research), suggest the potential to prevent emergence of resistance to EGFR inhibitor, osimertinib

Figarol et al. AACR 2022 #7934

TIPIFARNIB PREVENTS EMERGENCE OF RESISTANCE TO OSIMERTINIB IN VIVO



KURRENT-LUNG TRIAL OBJECTIVES

Evaluate safety/tolerability of tipifarnib/osimertinib combination

Primary objectives

- Recommendation for phase 2 dose (RP2D) of tipifarnib in combination with osimertinib
- Characterization of the safety of the combination (DLTs) per NCI CTCAE v5.0

Secondary objectives

- Overall response rate
- Duration of response
- Progression-free survival
- Pharmacokinetics
- Evaluation of circulating tumor DNA as an indicator of response

Characterize safety profile of tipifarnib/osimertinib combination

Primary objectives

- Safety and tolerability per NCI CTCAE v5.0

Secondary objectives

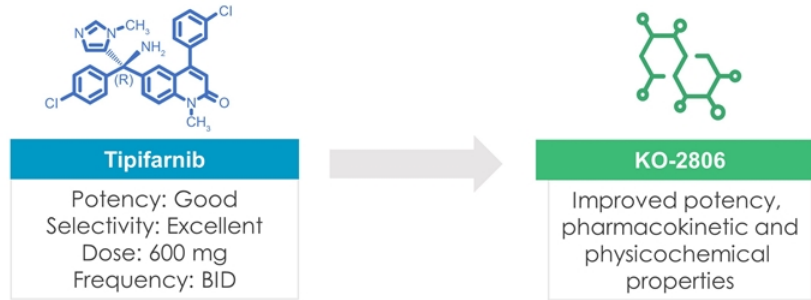
- Overall response rate
- Duration of response
- Progression-free survival
- Pharmacokinetics
- Evaluation of circulating tumor DNA as an indicator of response

Phase 1 clinical trial of tipifarnib and osimertinib in patients with treatment-naïve, locally advanced, or metastatic EGFR-Mutant NSCLC

ORR = overall response rate; DOR – duration of response;
PFS = progression-free survival



KO-2806 nominated as development candidate for IND-enabling studies



- FTIs represent an attractive therapeutic target and commercial franchise in oncology with compelling opportunities in combination with other targeted therapies
- Goal is to develop a next-generation FTI with improved potency, pharmacokinetic and physicochemical properties
- IND-enabling studies ongoing; on track for IND application acceptance for KO-2806 in Q1 2023

FORECASTED MILESTONES & FINANCIAL HIGHLIGHTS



PROGRAM	MILESTONE	ESTIMATED TIME OF ACHIEVEMENT
ZIFTOMENIB (KO-539) Menin Inhibitor	Dose first patient in Phase 2 registration-directed portion of KOMET-001	Q1 2023
	Dose first patient in KOMET-007 (venetoclax+azacitidine, 7+3)	1H 2023
	Dose first patient in KOMET-008 (gilteritinib, FLAG-IDA, IDAC/LDAC)	2H 2023
TIPIFARNIB Farnesyl Transferase Inhibitor (FTI)	Dose first patient in KURRENT-LUNG study (osimertinib)	1H 2023
	Determine OBAD* for PIK3CA cohort in KURRENT-HN study (alpelisib)	Mid-2023
KO-2806 Next-Generation FTI	Acceptance of Investigational New Drug application	Q1 2023
Financial Highlights* Nasdaq: KURA	\$438M in Cash as of December 31, 2022**	
	Shares outstanding: 68.3M basic; 9.3M options, RSU's & warrants	

* Optimal biologically active dose

** Unaudited, preliminary cash, cash equivalents and short-term investments as of 12/31/2022

DEVELOPING PRECISION MEDICINES FOR THE TREATMENT OF CANCER

Corporate Presentation – January 2023