

# **Voruciclib: An Oral CDK9 Inhibitor for AML and Other Malignancies**

July 2024

#### **Forward Looking Statements**

Certain information contained in this communication that are not historical in nature are "forward-looking statements" within the meaning of the "safe harbor" provisions of the Private Securities Litigation Reform Act of 1995 including, without limitation, statements regarding: the potential, safety, efficacy, and regulatory and clinical progress of our product candidates, including the anticipated timing for initiation of clinical trials and release of clinical trial data and our expectations surrounding potential regulatory submissions, approvals and timing thereof, our business strategy and plans and the sufficiency of our cash, cash equivalents and short-term investments to fund our operations. You should be aware that our actual results could differ materially from those contained in the forward-looking statements, which are based on management's current expectations and are subject to a number of risks and uncertainties, including, but not limited to, risk relating to our ability to successfully commercialize our product candidates; the availability or appropriateness of utilizing the FDA's accelerated approval pathway for our product candidates; final data from our pre-clinical studies and completed clinical trials potentially differing materially from reported interim data from ongoing studies and trials; costs and delays in the development and/or FDA approval, or the failure to obtain such approval, of our product candidates; uncertainties or differences in interpretation in clinical trial results; uncertainty regarding the impact of rising inflation and the increase in interest rates as a result; potential economic downturn; activist investors; our inability to maintain or enter into, and the risks resulting from, our dependence upon collaboration or contractual arrangements necessary for the development, manufacture, commercialization, marketing, sales and distribution of any products; competitive factors; our inability to protect our patents or proprietary rights and obtain necessary rights to third party patents and intellectual property to operate our business; our inability to operate our business without infringing the patents and proprietary rights of others; general economic conditions; the failure of any products to gain market acceptance; our inability to obtain any additional required financing; technological changes; government regulation; changes in industry practice; and one-time events. We do not intend to update any of these factors or to publicly announce the results of any revisions to these forward-looking statements. Under U.S. law, a new drug cannot be marketed until it has been investigated in clinical studies and approved by the FDA as being safe and effective for the intended use.



### Voruciclib Presents a Strong Value Proposition as the Only Oral CDK9 Inhibitor in Clinical Development in Combination with Venetoclax in AML

- Investment rationale
  - Opportunity to continue ongoing Phase 1 study (16-32 patients) to value inflection point by YE2024 and Phase 2 study (24 patients) in CY2025 for modest investment
- Initial focus on R/R AML
  - Significant medical need in large number of patients
    - Mutation agnostic therapy with potential to address >50% of AML patients
  - Clear and efficient path to marketing approval
- Voruciclib plus venetoclax
  - Durable responses observed in patients with R/R AML after venetoclax failure
  - On target effect observed on Mcl-1 and RNA Pol II
- Life cycle management
  - Market and scientific rationale to move to 1L AML
  - Utility where venetoclax is approved/used in other hematologic indications
  - Potential to address several solid tumors associated with MYC overexpression

#### **Estimated R&D costs**

- Stage 1a: ~\$1.2M
  - 16 patients
  - Evaluate 200 mg only
  - Readout December 2024
- Stage 1b: ~\$1.1M
  - 16 patients
  - Evaluate 250 mg
  - Readout March 2025
- Stage 2: ~\$2.4M
  - 24 patients
  - Dose 200 or 250 mg
  - Readout December 2025

TOTAL: ~ \$4.7M to complete Phase 1 and Phase 2 studies with ~56 patients by YE2025

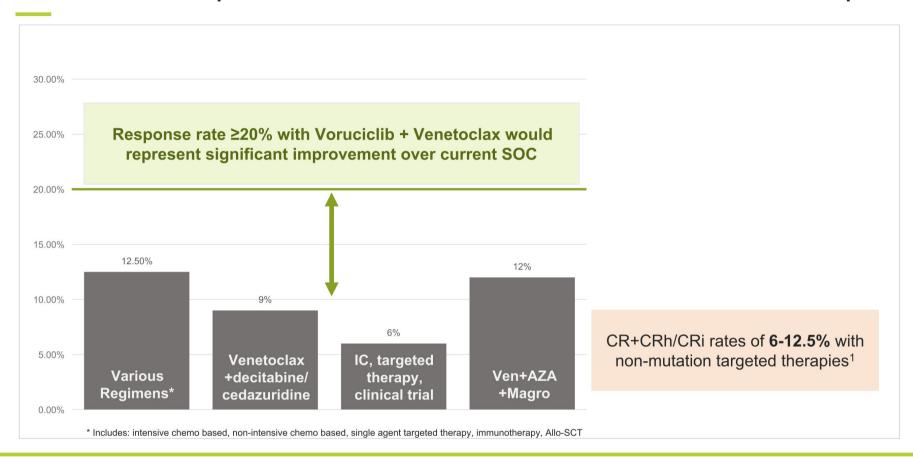




# Program Overview: Voruciclib and Venetoclax Combination in R/R AML Patients

July 2024

#### Limited Treatment Options and Poor Outcomes for AML Patients Post Venetoclax Exposure



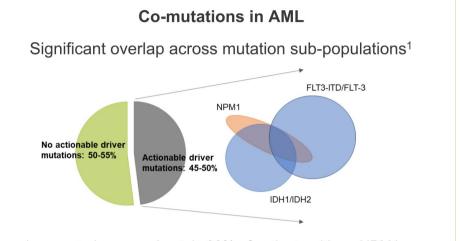


# Majority of R/R AML Patients Do Not Have Actionable Mutations and Need New Treatment Options

Despite the significant progress made against targetable mutations in AML...

# 50-55% of AML Patients Do Not Have Actionable Mutations<sup>1,2</sup>

In comparison, approximately 30%, 30% and 20% of AML patients have NPM1, FLT3 and IDH1/2 mutations, respectively<sup>1</sup>.



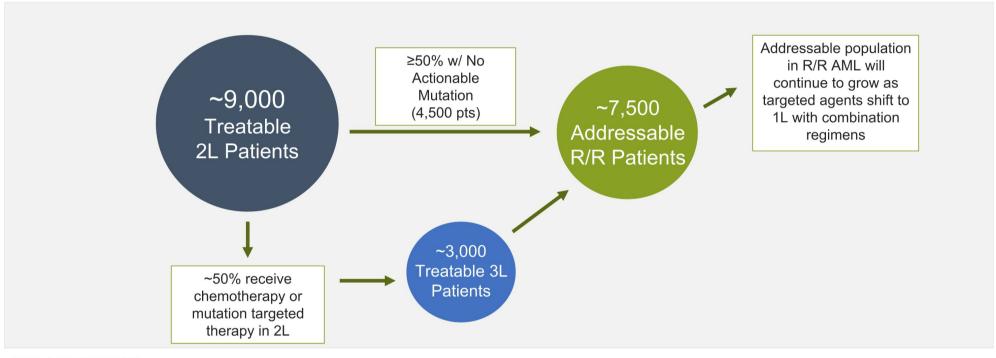
In one study, approximately 80% of patients with an NPM1 mutation had a co-mutation in either FLT3, IDH1/2 or both?

Diagram is for illustrative purposes.



#### Large Addressable R/R AML Population for Mutation Agnostic Therapy

#### ~7,500 Addressable Patient Population for Mutation Agnostic Therapy in Patients with R/R AML



Sources: Clarivate November 2023



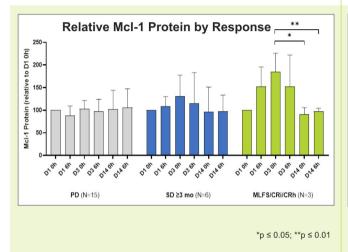
# Voruciclib: An Oral CDK9 Inhibitor with Clinical Activity in R/R AML and On-Target Biologic Effect

- 161 patients enrolled to date in 4 Phase 1 studies
  - 65 pts with AML: 21 single agent and 44 in combination with venetoclax (VORU+VEN)
  - 19 pts with B-cell malignancies
  - 77 pts with solid tumors
- Current focus on R/R AML, with substantial clinical, PK and PD datasets
  - CRi/MLFS observed in patients with disease progression after venetoclax
  - Target dose of 150-250 mg/day for phase 2 based on clinical responses and PK/PD data
  - Decrease in Mcl-1 and RNA Poll II<sup>Ser2</sup> phosphorylation observed in patient samples
- Potential completion of VORU+VEN dose/schedule optimization using 21 days/cycle in H2-2024
- Ready for phase 2 stage in H1-2025

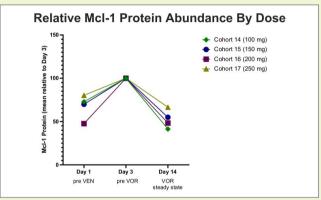


#### Decrease in McI-1 Protein with VORU+VEN Demonstrates On-Target Biological Activity

### Greater Decrease in McI-1 in Responders<sup>1</sup>

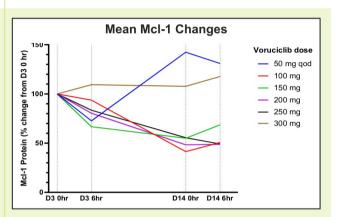


### McI-1 Increases After Venetoclax then Decreases with Voruciclib<sup>1</sup>



McI-1 increases after venetoclax dosing (D1 0h – D3 0h) and decreases after 1st voruciclib dosing (D3 6h), continuing after 12 daily doses (D14 0h)

### Consistent Decreases in McI-1 Across Dose Levels



<sup>1.</sup> Mcl-1 protein expressed as mean fluorescence normalized to D1 0h or D3 0h

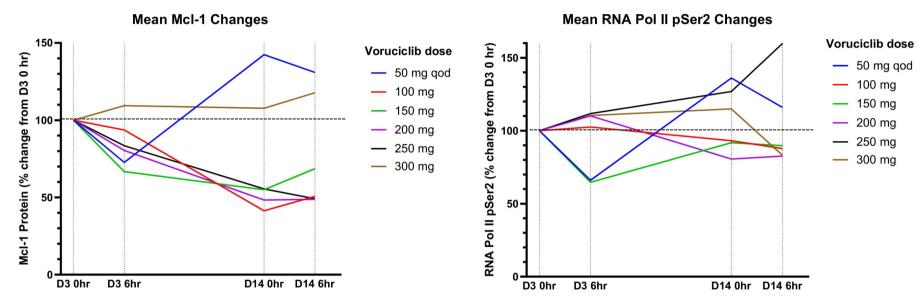


MEI Data on file

9

#### On-Target Decreases in McI-1 and Phosphorylation of RNA Pol Iser Across Doses

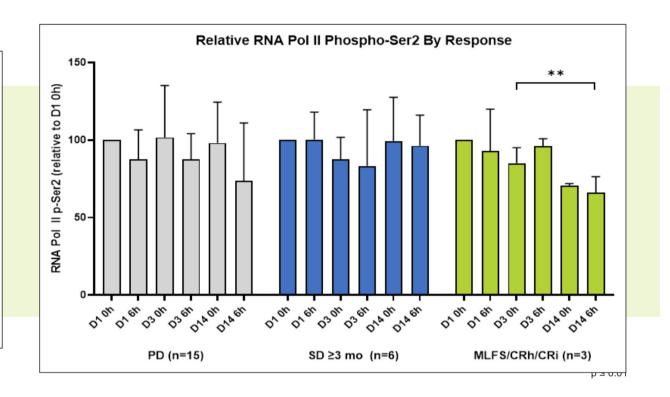
 Mcl-1 protein expression and phosphorylation of RNA Pol II<sup>Ser2</sup> values decreased from before first voruciclib dose to day 14 at the end of voruciclib dosing





# Patients with Clinical Responses Have Strongest Decreases in RNA Pol I<sup>Ser2</sup> Phosphorylation Following VORU+VEN at 100-300 mg

- Clinical responders (MLFS/CRh/Cri) showed significant decreases in RNA Pol II phospho-Ser2 on Day 14 compared to pre VORU dosing on Day 3
- Data normalized to each patient's C1D1 pre dose



MEIPharma

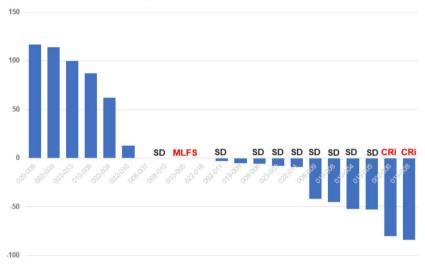
#### **Anti-Leukemic Activity Observed After Venetoclax Failure**

# 31% (10/32) of Patients Administered VORU at 100-300 mg for 14 days/cycle + VEN had Disease Control

- 3 patients achieved a response
  - 2 had a CRi
    - 1 underwent HSCT transplant
    - 1 had a CRi for 6 months then progressed
  - 1 had a MLFS, ongoing at 9+ months
- 7 patients had stable disease ≥3 months
  - 13 patients had stable disease <3 months</li>

#### ~50% of Patients with Pre/Post Bone Marrow Biopsy Had a Decrease in Blast Counts





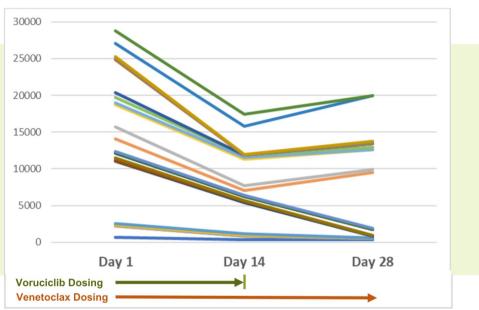


## Importance of Evaluating Voruciclib on Days 1 to 21 of 28-Day Cycle in Combination with Venetoclax to Extend Voruciclib Exposure and Prevent Blast Rebound on Venetoclax Alone

### Increasing duration of VORU exposure may prevent blast rebound and enhance efficacy

- 18/24 pts (75%) had decreased peripheral blasts on Day 14 of Cycle 1, at the end of voruciclib and venetoclax combination dosing
- 8/18 pts (44%) had peripheral blasts rebound between Day 14 and 28, when voruciclib was stopped and patient received venetoclax alone

### Peripheral Blast Counts Decrease on VORU+VEN & Rebound on VEN Alone in Days 15-28





MEI Data on file

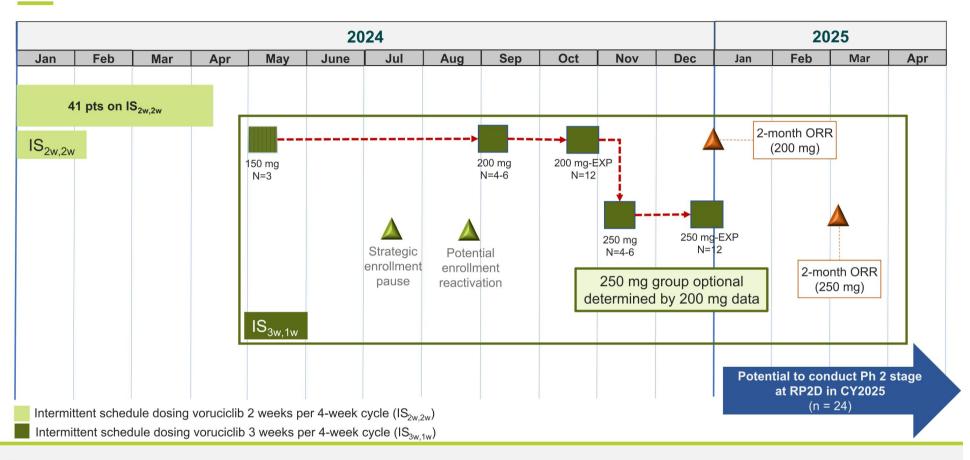
13

#### Voruciclib Plus Venetoclax is Well-Tolerated in Heavily Pre-Treated Patients with R/R AML

- MTD not reached on 14 days/cycle schedule evaluated to date
- Dose escalation stopped at 300 mg because plasma concentrations achieved exceed concentrations shown to be effective in nonclinical models
  - Target dose for PD effect projected to be 150-250 mg
- No DLTs observed at doses evaluated
- No discontinuations due to drug-related toxicities



#### Remaining Cohorts (16-32 Patients) to Be Evaluated in the Dose Optimization Stage in H2-2024 Assumes Reactivation of Enrollment in September 2024





#### Timeline for Stage 2 at RP2D with 24 Patients Enrolled

Topline Results in Q4-2025

2022 2026 2024 2025 Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec Jan Feb Mar Apr May Jun Voruciclib IS<sub>3w,1w</sub> (200 and 250 mg) Ph 2 stage at RP2D on IS<sub>3w,1w</sub> plus venetoclax (N = 24)(N = 32 pts)1 mo ORR Type D Mtg request 6 mo 2 mo FPI ORR/DOR ORR Type D meeting to gain FDA's agreement on protocol amendment to evaluate 24 patients at RP2D



#### Phase 3 Ready Package for Voruciclib + Venetoclax in R/R AML in 2026

- Phase 1/2 study enrolling up to 120 patients with R/R AML
  - 100 patients in combination with venetoclax, with ~40 patients at RP2D
- Extensive PK data on > 150 patients
- Pharmacodynamics data for Mcl-1 and RNA Pol

- Pharmacology studies
  - Food effect study
  - Nonclinical pharmacology studies
    - In vitro CYP and transporters
    - Protein binding in human liver microsomes
- · 3-month toxicology studies in dogs and rats
- Ph 3 ready API/drug product, including process development, DOE, & analytical method development





#### Registration Strategy in R/R AML

- - Phase 3 study design
    - Randomized placebo-controlled vs SOC (HMA, LDAC, Venetoclax alone
    - R/R AML, not to exceed 3 prior lines of therapy, exclude TP53 mutations
    - Overall survival as primary endpoint for full approval
    - Possible accelerated approval based on CR+CRh rate
    - Sample size = 300 pts for survival HR ~0.6 (8.3 months vs 5 months)
    - Enrollment ~24 months
  - Other studies for NDA package
    - TQT study
    - ADME study
    - DDI study
    - Food effect study (if change in commercial formulation)
    - Hepatic impairment study (TBD)

#### **Intellectual Property & Market Exclusivity**

- MEI Pharma has acquired exclusive worldwide rights to develop, manufacture and commercialize voruciclib from Presage Biosciences, Inc.
- 14 issued patents, 2 allowed and 7 pending U.S. non-provisional patent applications with the USPTO covering the composition of matter, pharmaceutical compositions, and methods of use to treat cancer for voruciclib
- Pending U.S. patent application covering composition of matter for voruciclib polymorph has a projected expiration date in 2040, if issued, which may be potentially extended by about one year of patent term adjustment (PTA) to 2041 due to patent office prosecution delays, and up to five years of patent term extension (PTE) to 2046 due to regulatory delays
- Allowance of patent application in Japan covering composition of matter for voruciclib polymorph is expected upon minor formalities being addressed.
- There are over 90 allowed or issued foreign patents, 3 pending U.S. provisional patent applications, and approximately 60 pending foreign patent applications for voruciclib, related compounds, and related methods of use
- Acute Myeloid Leukemia is also an orphan designation with the FDA, which qualifies for a potential seven years of market exclusivity upon regulatory approval in the U.S

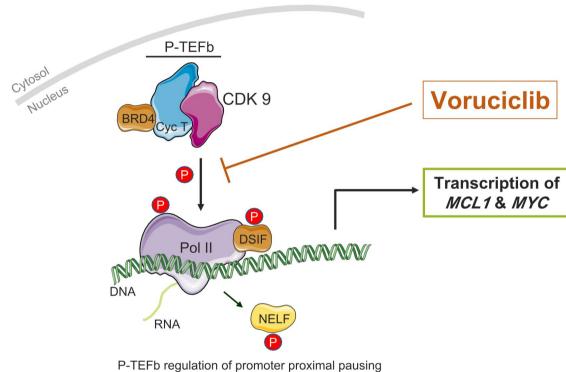


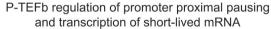


# **Voruciclib Mechanism of Action and Nonclinical Studies**

#### **Voruciclib Modulates 2 Important CDK9 Interactions for MCL1 and MYC**

- Transcription of short-lived mRNAs by RNA polymerase II is regulated by promoter proximal pausing
- CDK9 activates RNA polymerase II, which is important for the transcription of MCL1 and MYC that support proliferation and survival of malignant cells
- Voruciclib inhibits CDK9-mediated RNA Pol II phosphorylation, blocking gene transcription elongation and mRNA maturation leading to decreased Mcl-1 and Myc proteins

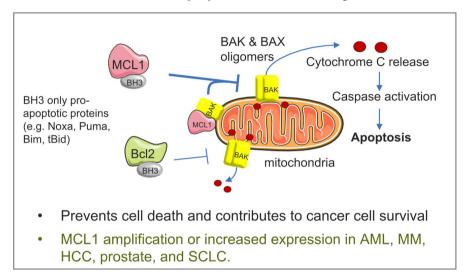




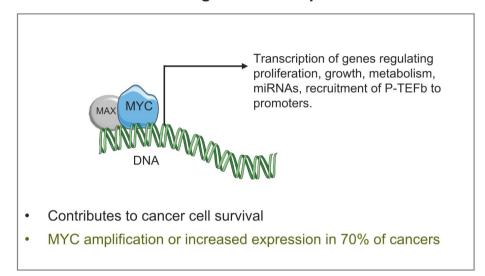


#### MCL1 and MYC Proteins are Important for Cell Proliferation and Survival

#### MCL1 is an anti-apoptotic BCL2 family member



#### MYC is an oncogenic transcription factor



#### CDK 9 regulates expression of MCL1 and MYC genes



#### High McI-1 Levels Associated With Poor Prognosis and Resistance to Venetoclax in AML

- High levels of Mcl-1 found consistently high in nearly all bone marrow samples in newly diagnosed and relapsed AML<sup>1</sup>
- High level of Mcl-1 associated with poor outcome in AML<sup>2</sup>
  - Provide survival advantage and sustained growth of the disease
  - · Lead to chemotherapy resistance
- Mcl-1 protein has a short half-life (~0.5 hr) which makes it dependent on continuous gene transcription
- Mcl-1 upregulation is an established venetoclax resistance mechanism<sup>3</sup>
  - Venetoclax inhibits BCL2 but can lead to stabilization of Mcl-1



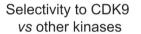
<sup>2.</sup> Li et al, Onco Target Ther 2019;12:3295-3304

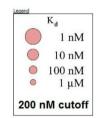
#### Voruciclib Is a Selective and Potent Oral CDK9 Inhibitor

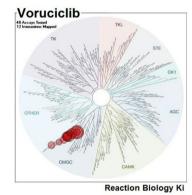
Orally administered

- Patient convenience
- Half-life of 26-32 hours allows once a day dosing
- Potent
  - Biochemical IC<sub>50</sub> 0.63 nM
  - IC  $_{50}$  from 0.2 to 1.7  $\mu M$  in various cell lines
- Preferential distribution to tissues vs plasma
  - >10-fold higher tissue accumulation
- Selective
  - Higher specificity and longer residence time on CDK9
  - Greater selectivity against CDKs vs other kinases

| CDK / Cyclin | Ki (nM) | Residence Time |
|--------------|---------|----------------|
| CDK9 / T2    | 0.63    | 105            |
| CDK9 / T1    | 1.68    | 151            |
| CDK6 / D1    | 2.92    | 3.5            |
| CDK4 / D1    | 3.96    | 4.8            |
| CDK1 / A2    | 9.10    | 55             |
| CDK2 / A2    | 55.1    | 19             |

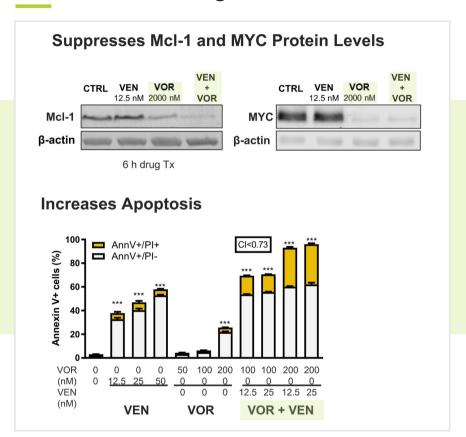


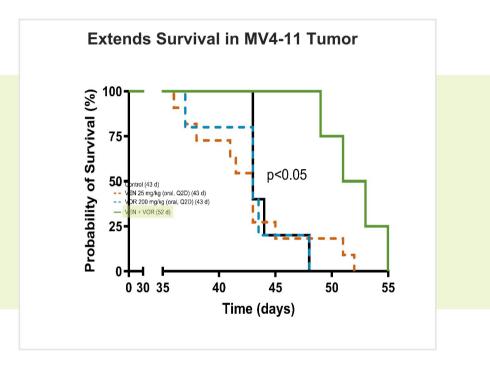




MEIPharma

# Preclinical Studies Demonstrate Voruciclib Suppresses McI-1 and Synergizes with Venetoclax in AML Murine Xenograft Model









### **Voruciclib Results in R/R AML**

## Completed Single-Agent Dose Escalation/Expansion in R/R AML & B-cell Malignancies (N = 40) Treatment Well Tolerated with Evidence of Anti-Leukemic Activity

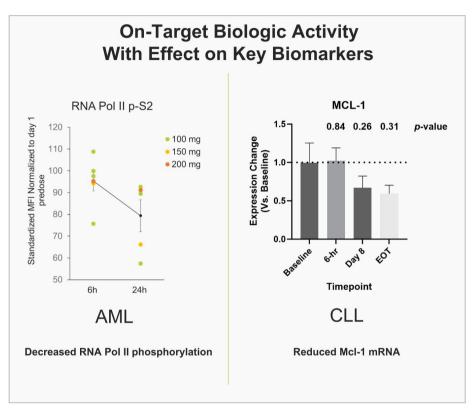
### Voruciclib up to 200 mg for days 1-14 in a 28-day Cycle Demonstrated Anti-Leukemic Activity . . .

21 patients with heavily pretreated AML (median = 3 prior lines)

- 1 MLFS (81 yo, 4 prior lines, adverse mutations & cytogenetics)
- 5 of 10 patients at 200 mg had stable disease
- 2 patients had differentiation syndrome demonstrative of biological activity

#### ... and Was Well-tolerated

- No dose-limiting toxicity on IS<sub>2w,2w</sub> dosing
- MTD not reached
- Dose escalation stopped at 200 mg to focus on venetoclax combination
- No drug-related neutropenia
- No Grade 3+ drug related toxicity
- No discontinuation due to drug related toxicity





# Completed Dose Escalation/Expansion of Voruciclib 2 Weeks/Cycle ( $IS_{2w,2w}$ ) Plus Venetoclax in R/R AML Showed Evidence of Clinical Activity With a Well Tolerated Regimen

- Dosing schedule
  - Voruciclib days 1-14 (day 3-14 in cycle 1)
  - Venetoclax 200 mg on days 1-21 and 400 mg on days 22-28
- 41 patients enrolled
  - 29 in dose escalation cohorts at 50-300 mg
  - 12 in expansion cohort at 300 mg
- Clinical activity
  - 2 CRh and 1 MLFS
  - Improved blast counts
- Well tolerated
  - No DLTs observed
  - MTD not reached
  - No discontinuation due to drug-related adverse events
- PK does not show drug-drug interaction
- Decreases in Mcl-1 protein expression and phosphorylation of RNA Pol II<sup>ser2</sup>



# Baseline Characteristics in Dose Escalation/Expansion Cohorts (N = 41) Patients Heavily Pretreated With High Rate of Adverse Cytogenetic and Molecular Features

- Median age 67 years (range 34-89)
- 18 patients (44%) had ≥3 prior lines of therapy
- 39 (95%) previously treated with venetoclax
- 27 (66%) had Adverse 2017 ELN Risk Category

|                                       | N = 41   |  |
|---------------------------------------|----------|--|
| Number of prior therapies             |          |  |
| Median (range)                        | 2 (1-6)  |  |
| ≥3 prior                              | 18 (44%) |  |
| Prior allogeneic stem cell transplant | 8 (20%)  |  |
| Prior venetoclax                      | 39 (95%) |  |
| 1 <sup>st</sup> line                  | 25 (64%) |  |
| ≥2 <sup>nd</sup> line                 | 14 (26%) |  |
| Prior HMAs                            | 39 (95%) |  |
| Prior anthracyclines                  | 21 (51%) |  |
|                                       |          |  |

|   | Total (N=41) |
|---|--------------|
| 2017 ELN Risk Category                    |              |
| Favorable                                 | 4 (10%)      |
| Intermediate                              | 7 (17%)      |
| Adverse                                   | 30 (73%)     |
| Poor Cytogenetics (n = 40)                |              |
| Patients with adverse cytogenetics        | 20 (50%)     |
| Adverse Molecular Mutations (n = 36)      |              |
| TP53                                      | 10 (28%)     |
| ASLX1                                     | 14 (39%)     |
| RUNX1                                     | 8 (22%)      |
| GATA2                                     | 4 (11%)      |
|   |              |
| Baseline Bone Marrow Blast Median (range) | 33% (2-77%)  |



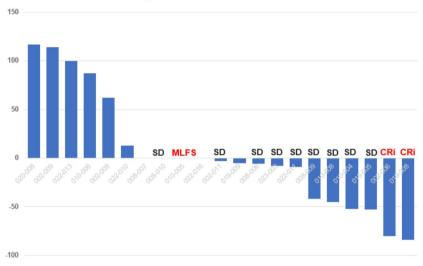
#### **Anti-Leukemic Activity Observed After Venetoclax Failure**

# 31% (10/32) of Patients Administered VORU at 100-300 mg for 14 days/cycle + VEN had Disease Control

- 3 patients achieved a response
  - 2 had a CRi
    - 1 underwent HSCT transplant
    - 1 had a CRi for 6 months then progressed
  - 1 had a MLFS, ongoing at 9+ months
- 7 patients had stable disease ≥3 months
  - 13 patients had stable disease <3 months</li>

#### ~50% of Patients with Pre/Post Bone Marrow Biopsy Had a Decrease in Blast Counts







### **Covariate Analyses From All Cohorts on IS<sub>2W,2W</sub> (41 Patients)**

#### **AML Type**

Poor risk AML had low disease control rate (<40%) vs favorable risk AML with higher disease control rate (≥50%)</li>

|           | AML Type                     | No. Pts<br>(N=41) | CRi/MLFS | SD ≥3 mo | "Good Outcome"<br>CRi/MLFS/SD | "Poor Outcome"<br>PD + SD <3 mo |
|-----------|------------------------------|-------------------|----------|----------|-------------------------------|---------------------------------|
|           | AML with MDS related changes | 18                | 1        | 6        | 7 (39%)                       | 11 (61%)                        |
| Risk      | AML with RUNX-1              | 5                 | 0        | 1        | 1 (20%)                       | 4 (80%)                         |
| Poor      | Pure erythroid leukemia      | 2                 | 0        | 0        | 0                             | 2 (100%)                        |
| " [       | AML without maturation       | 1                 | 0        | 0        | 0                             | 1 (100%)                        |
| ¥         |                              |                   |          |          |                               |                                 |
| Risk      | AMML                         | 7                 | 1        | 3        | 4 (57%)                       | 3 (43%)                         |
| able      | AML with maturation          | 3                 | 1        | 1        | 2 (67%)                       | 1 (33%)                         |
| Favorable | NPM-1 mutation               | 2                 | 0        | 1        | 1 (50%)                       | 1 (50%)                         |
| TO TO     |                              |                   |          |          |                               |                                 |



MEI Data on file

### **Covariate Analyses From All Cohorts on IS<sub>2W,2W</sub> (41 Patients)**

#### **ELN 2017 Risk Group**

 Patients with Adverse risk had low disease control rate (≤10%) vs patients with Intermediate/Favorable risk who had higher disease control rate (≥50%)

| ELN 2017 Risk Group | No. Pts<br>(N=41) | CR/MLFS | SD ≥3 mo | "Good Outcome"<br>CRi/MLFS/SD | "Poor Outcome"<br>PD + SD <3 mo |
|---------------------|-------------------|---------|----------|-------------------------------|---------------------------------|
| Adverse             | 30                | 1       | 2        | 3 (10%)                       | 27 (90%)                        |
| Intermediate        | 7                 | 1       | 5        | 6 (86%)                       | 1 (14%)                         |
| Favorable           | 4                 | 1       | 1        | 2 (50%)                       | 2 (50%)                         |



MEI Data on file

#### Covariate Analyses From All Cohorts on IS<sub>2W,2W</sub> (41 Patients)

#### **Molecular Mutations**

- Patients with adverse risk mutations (RUNX1, TP53, SRSF2) had low disease control rate, particularly for TP53
- Patients with ASXL1, considered poor risk in general but reported by Sellas to be associated with better outcome
  when treated with GFH009, led to 2 CRi with VORU+VEN

| Molecular Mutation | No. Pts<br>(N=36) | CR/MLFS | SD ≥3 mo | "Good Outcome"<br>CRi/MLFS/SD | "Poor Outcome"<br>PD + SD <3 mo |
|--------------------|-------------------|---------|----------|-------------------------------|---------------------------------|
| TP53               | 10                | 0       | 0        | 0                             | 10 (100%)                       |
| RUNX-1             | 8                 | 1       | 0        | 1 (12.5%)                     | 7 (87.5%)                       |
| SRSF2              | 6                 | 0       | 2        | 2 (33%)                       | 4 (67%)                         |
| ASXL1              | 14                | 2       | 4        | 6 (43%)                       | 8 (57%)                         |



# Voruciclib Dosed up to 300 mg for 14 Days per Cycle Was Generally Well-Tolerated with No Apparent Dose Response to Adverse Events Reported

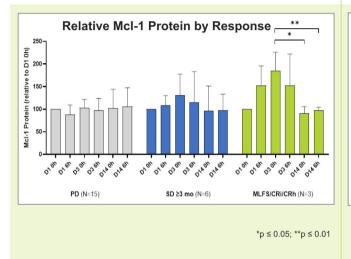
#### **Treatment Emergent Adverse Events in ≥10% of Patients**

|                          | (50 mg QOD)<br>(N=6) | (50 mg QD)<br>(N=3) | (100 mg QD)<br>(N=4) | (150 mg QD)<br>(N=4) | (200 mg QD)<br>(N=4) | (250 mg QD)<br>(N=4) | (300 mg QD)<br>(N=4) | Total<br>(N=29) |
|--------------------------|----------------------|---------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------|
| Nausea                   | 0                    | 0                   | 2 (50.0)             | 3 (75.0)             | 2 (50.0)             | 1 (25.0)             | 2 (50.0)             | 10 (34.5)       |
| Platelet Count Decreased | 0                    | 1 (33.3)            | 1 (25.0)             | 3 (75.0)             | 1 (25.0)             | 1 (25.0)             | 1 (25.0)             | 8 (27.6)        |
| Febrile Neutropenia      | 0                    | 1 (33.3)            | 2 (50.0)             | 2 (50.0)             | 0                    | 1 (25.0)             | 1 (25.0)             | 7 (24.1)        |
| Anaemia                  | 0                    | 0                   | 2 (50.0)             | 2 (50.0)             | 0                    | 1 (25.0)             | 1 (25.0)             | 6 (20.7)        |
| Hypokalaemia             | 0                    | 0                   | 2 (50.0)             | 1 (25.0)             | 2 (50.0)             | 1 (25.0)             | 0                    | 6 (20.7)        |
| Cough                    | 2 (33.3)             | 0                   | 1 (25.0)             | 1 (25.0)             | 1 (25.0)             | 0                    | 0                    | 5 (17.2)        |
| Diarrhoea                | 1 (16.7)             | 0                   | 1 (25.0)             | 1 (25.0)             | 1 (25.0)             | 1 (25.0)             | 0                    | 5 (17.2)        |
| Dyspnoea                 | 2 (33.3)             | 0                   | 1 (25.0)             | 1 (25.0)             | 0                    | 1 (25.0)             | 0                    | 5 (17.2)        |
| Fatigue                  | 0                    | 0                   | 0                    | 3 (75.0)             | 1 (25.0)             | 0                    | 1 (25.0)             | 5 (17.2)        |
| Stomatitis               | 2 (33.3)             | 0                   | 1 (25.0)             | 1 (25.0)             | 0                    | 0                    | 0                    | 4 (13.8)        |
| Vomiting                 | 0                    | 0                   | 1 (25.0)             | 0                    | 0                    | 2 (50.0)             | 1 (25.0)             | 4 (13.8)        |
| Anxiety                  | 1 (16.7)             | 0                   | 2 (50.0)             | 0                    | 0                    | 0                    | 0                    | 3 (10.3)        |
| Corona Virus Infection   | 1 (16.7)             | 0                   | 0                    | 1 (25.0)             | 1 (25.0)             | 0                    | 0                    | 3 (10.3)        |
| Hypotension              | 1 (16.7)             | 0                   | 1 (25.0)             | 1 (25.0)             | 0                    | 0                    | 0                    | 3 (10.3)        |

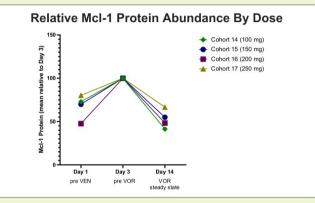


#### Decrease in McI-1 Protein with VORU+VEN Demonstrates On-Target Biological Activity

### Greater Decrease in McI-1 in Responders<sup>1</sup>

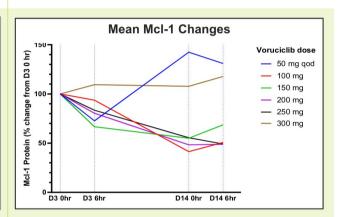


### McI-1 Increases After Venetoclax then Decreases with Voruciclib<sup>1</sup>



McI-1 increases after venetoclax dosing (D1 0h – D3 0h) and decreases after 1st voruciclib dosing (D3 6h), continuing after 12 daily doses (D14 0h)

### Consistent Decreases in McI-1 Across Dose Levels



<sup>1.</sup> Mcl-1 protein expressed as mean fluorescence normalized to D1 0h or D3 0h

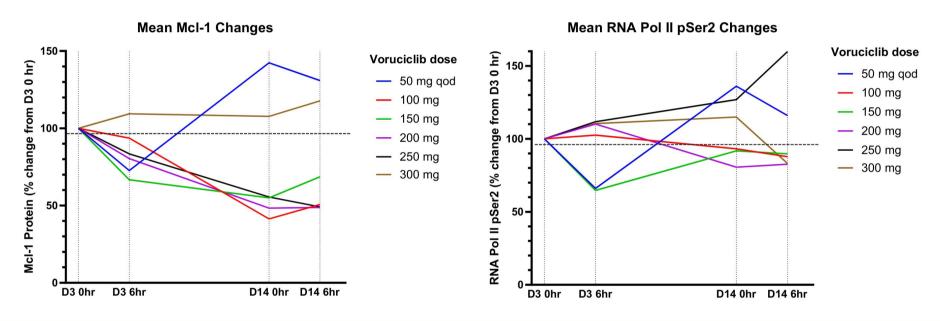


MEI Data on file

35

#### On-Target Decrease in McI-1 and RNA Pol Iser Phosphorylation

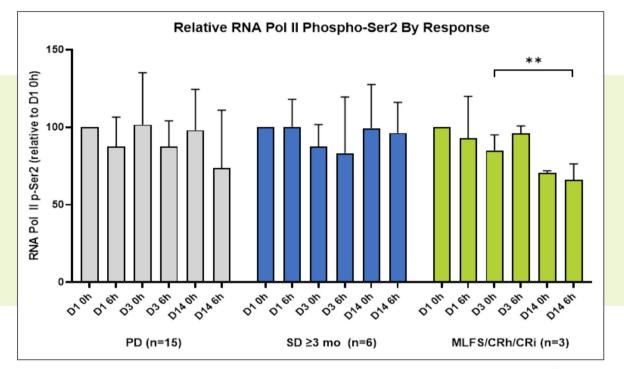
- Mcl-1 and phosphorylation of RNA Pol II<sup>Ser2</sup> mean values decreased from before first voruciclib dose to day 14 on the last day of voruciclib dosing
- Change not as evident at 300 mg (compensatory pathways?) and 50 mg (dose too low)





# Patients with Clinical Responses Have Strongest Decreases in RNA Pol I<sup>Ser2</sup> Phosphorylation Following VORU+VEN at 100-300 mg

- Clinical responders
   (MLFS/CRh/Cri) showed
   significant decreases in RNA
   Pol II phospho-Ser2 on Day 14
   compared to pre VORU dosing
   on Day 3
- Data normalized to each patient's C1D1 pre dose



\*\* $p \le 0.01$ 



#### **Assessment of Voruciclib PD Responses by Raw Values**

- Flow cytometry analysis of PBMC samples
- Changes in fluorescence signal for individual subjects analyzed for acute response (6 hr post-dose on day 3 or day 14 vs pre-dose on same day) or steady state response (day 14 pre-dose compared to day 3 pre-dose)
- Response defined as ≥20% decrease from baseline values

#### % of Patients with McI-1 and p-Ser2 RNA Pol II Responses

|                   | 100-250 mg<br>Acute or Steady State | 50-300 mg<br>Acute or Steady State |  |  |
|-------------------|-------------------------------------|------------------------------------|--|--|
| McI-1             | 71.4%                               | 53.6%                              |  |  |
| p-Ser2 RNA Pol II | 35.7%                               | 39.2%                              |  |  |



### Assessment of Voruciclib PD Responses by Raw Values

|   | Targ                     |                       |                       |                       |                       |                              |
|---|--------------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------------|
| PD Assessment   | Cohort 12<br>(50 mg QOD) | Cohort 14<br>(100 mg) | Cohort 15<br>(150 mg) | Cohort 16<br>(200 mg) | Cohort 17<br>(250 mg) | Cohort 18 +<br>EXP1 (300 mg) |
| PD day 3 and/or day 14, N   | 3                        | 4                     | 3                     | 4                     | 3                     | 11                           |
| Pts with McI-1 decrease (≥ 20%) post VOR (acute or steady state) % (N)  | 66.7% (2)                | 75% (3)               | 66.7% (2)             | 50% (2)               | 100% (3)              | 27.3% (3)                    |
| Pts with pSer2-RNA Pol II decrease (≥ 20%) post VOR (acute or steady state) % (N)                             | 66.7% (2)                | 50% (2)               | 66.7% (2)             | 25% (1)               | 0% (0)                | 36% (4)                      |
| PD steady state day 14, N   | 1                        | 3                     | 2                     | 1                     | 2                     | 11                           |
| Pts with McI-1 decrease (≥ 20%) VOR steady state (day 14 predose compared to day 3 pre-dose) % (N)            | 100% (1)                 | 100% (3)              | 50% (1)               | 100% (1)              | 100% (2)              | 9% (1)                       |
| Pts with pSer2-RNA Pol II decrease (≥ 20%) VOR steady state (day14 pre-dose compared to day 3 pre-dose) % (N) | 0% (0)                   | 33% (1)               | 0% (0)                | 100% (1)              | 0% (0)                | 9% (1)                       |
|   |                          |                       |                       |                       |                       |                              |



MEI Data on file

#### Voruciclib PK Analysis 50-300 mg

#### Mean (%CV) single dose and multiple dose voruciclib C<sub>max</sub> and AUC<sub>24</sub>

|   | Cohort 12               | Cohort 13             | Cohort 14              | Cohort 15              | Cohort 16              | Cohort 17              | Cohort 18 +<br>EXP1    |  |  |
|---|-------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|--|--|
| Voruciclib dose<br>Venetoclax dose          | 50 mg QOD<br>200 mg QD  | 50 mg QD<br>200 mg QD | 100 mg QD<br>200 mg QD | 150 mg QD<br>200 mg QD | 200 mg QD<br>200 mg QD | 250 mg QD<br>200 mg QD | 300 mg QD<br>200 mg QD |  |  |
| C1D3 (single dose) voruciclib PK parameters |                         |                       |                        |                        |                        |                        |                        |  |  |
| n   | 5                       | 2 <sup>A</sup>        | 3                      | 2 <sup>A</sup>         | 2 <sup>A</sup>         | 1 <sup>A</sup>         | 4                      |  |  |
| C <sub>max</sub> , ng/mL                    | 95.1 (22%)              | 54.5, 40.9            | 258 (105%)             | 242, 267               | 425, 198               | 1040                   | 662 (64%)              |  |  |
| AUC <sub>24</sub> , ng×h/mL                 | 1301 (16%) <sup>B</sup> | n.c.                  | 2507 (65%)             | 3590, 4454             | 4015, 2814             | 15443                  | 9250 (49%)             |  |  |
|   |                         |                       | C1D13/14 (multip       | ole dose) vorucicli    | b PK parameters        |                        |                        |  |  |
| n   | 4                       | 2 <sup>A</sup>        | 4                      | 3                      | 2 <sup>A</sup>         | 4                      | 13                     |  |  |
| C <sub>max</sub> , ng/mL                    | 200 (22%)               | 245, 124              | 313 (65%)              | 468 (29%)              | 378, 318               | 1240 (41%)             | 1267 (37%)             |  |  |
| AUC <sub>24</sub> , ng×h/mL                 | 2488 (29%) <sup>C</sup> | 4666, 2036            | 5767 (69%)             | 8323 (34%)             | 8283, 4587             | 19024 (33%)            | 21526 (38%)            |  |  |

Note: Multiple dose PK was assessed on C1D13 in Cohort 12 and C1D14 in Cohorts 13 to 18

n.c.: not calculated (insufficient data or PK samples not collected)

- Voruciclib multiple dose exposures on C1D14 was generally proportional to the dose in the range 50 mg to 300 mg.
- Voruciclib PK profiles are consistent with historical single agent data; it is inferred that venetoclax does not affect voruciclib PK



A Individual values are shown for n<3; B n=4; C n=3

### Venetoclax PK at 50-250 mg

Mean (%CV) multiple dose venetoclax C<sub>max</sub> and AUC<sub>24</sub> values

|                                    | Cohort 12                  | Cohort 13             | Cohort 14              | Cohort 15              | Cohort 16              | Cohort 17              | Cohort 18 +<br>EXP1      | Historical Ver<br>(Study N | netoclax Data<br>//12-175) |
|------------------------------------|----------------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|--------------------------|----------------------------|----------------------------|
| Venetoclax dose<br>Voruciclib dose | 200 mg QD<br>50 mg QOD     | 200 mg QD<br>50 mg QD | 200 mg QD<br>100 mg QD | 200 mg QD<br>150 mg QD | 200 mg QD<br>200 mg QD | 200 mg QD<br>250 mg QD | 200 mg QD<br>300 mg QD   | CLL/SLL                    | NHL                        |
| voruciciib dose                    | 30 Hig QOD                 | 30 mg QD              | 100 mg QD              | 130 mg QD              | 200 mg QD              | 230 mg QD              | 300 mg QD                | 200 mg QD                  | 200 mg QD                  |
|                                    |                            | C1D1                  | 13/14 (multiple        | dose) venetod          | clax PK parame         | eters                  |                          |                            |                            |
| n                                  | 3                          | 3                     | 4                      | 3                      | 3                      | 4                      | 14                       | 7                          | 3                          |
| C <sub>max</sub> , µg/mL           | 1.77 (36%)                 | 1.49 (72%)            | 1.40 (127%)            | 0.95 (59%)             | 1.2 (13%)              | 1.27 (22%)             | 0.96 (62%)               | 1.44 (39%)                 | 1.11 (27%)                 |
| AUC <sub>24</sub> , μg×h/mL        | 17.04 <sub>, 2</sub> 22.98 | 38.89, 7.54           | 21.8 (135%)            | 10.6 (39%)             | 14.9 (28%)             | 15.3 (30%)             | 12.26 <sub>B</sub> (61%) | 24.28 (44%)                | 16.26 (28%)                |

Note: Multiple dose PK was assessed on C1D13 in Cohort 12 and C1D14 in Cohorts 13 to 18

• Voruciclib once daily administration did not have an effect on venetoclax pharmacokinetics.

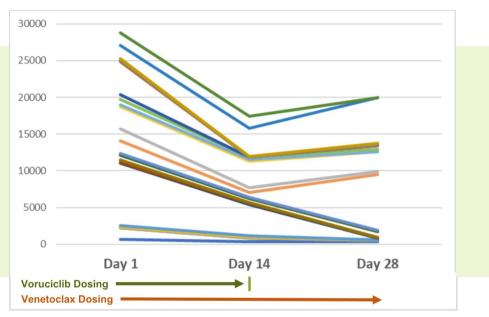


A Individual values are shown for n<3; B n=13

# Now Evaluating Voruciclib on Days 1 to 21 of 28-Day Cycle in Combination with Venetoclax to Extend Voruciclib Exposure and Prevent Blast Rebound

- 18/24 pts (75%) had decreased blasts on Day 14, at the end of voruciclib and venetoclax combination dosing
- 8/18 pts (44%) had blasts rebound between Day 14 and 28, when voruciclib was stopped while continuing venetoclax
- Increasing duration of voruciclib exposure may prevent blast rebound and enhance efficacy

### Peripheral Blast Counts Decrease on Voruciclib + Venetoclax and Rebound on Venetoclax Alone in Days 15-28





# Patient Enrollment in VORU $IS_{3w,1w}$ + Venetoclax Cohorts Paused for Strategic Reasons After Completing Enrollment at 150 mg Dose

- 3 patients enrolled in VORU+VEN group at 150 mg on IS<sub>3w,1w</sub>
  - No DLTs
  - 1 patient had a 49% reduction in bone marrow blasts
- Enrollment halted for strategic reasons despite investigator support for evaluation of 3-week schedule
- Enrollment of dose escalation and expansion cohorts on 3-week schedule can be completed by yearend 2024 if enrollment is reactivated in early September
  - Significant gain in efficiency and lower cost if current protocol is reactivated with the same sites and CRO
- Estimated R&D cost to complete dose optimization on IS<sub>3w,1w</sub>

| Patients Enrolled         | Investigators/CRO | Consultants | Total       |
|---------------------------|-------------------|-------------|-------------|
| 16 (at 200 mg)            | \$852,200         | \$386,000   | \$1,238,200 |
| 16 (at 250 mg)            | \$852,200         | \$177,000   | \$1,034,200 |
| 32 (at 200 mg and 250 mg) | \$1,709,400       | \$563,000   | \$2,272,400 |



### Estimated R&D Cost to Evaluate 200 mg Only

|                           | Activity                              | Unit | cost   | No. Units | Total cost |           |
|---------------------------|---------------------------------------|------|--------|-----------|------------|-----------|
|                           |                                       |      |        |           |            |           |
| Clinical study            | Investigator cost                     | \$   | 30,000 | 16        | \$         | 480,000   |
|                           | CRO                                   | \$   | 30,000 | 6         | \$         | 180,000   |
|                           | PK assays + analysis                  | \$   | 3,000  | 16        | \$         | 48,000    |
|                           | Correlative studies                   | \$   | 3,000  | 16        | \$         | 48,000    |
|                           | Drug supply                           | \$   | 700    | 16        | \$         | 11,200    |
|                           | TOTAL                                 |      |        |           | \$         | 767,200   |
|                           |                                       |      |        |           |            |           |
| IND maintenance FDA/sites | IB/DSUR preparation (Sept 2024)       | \$   | 40,000 | 1         | \$         | 40,000    |
|                           | IRB approvals                         | \$   | 5,000  | 9         | \$         | 45,000    |
|                           | TOTAL                                 |      |        |           | \$         | 85,000    |
|                           |                                       |      |        |           |            |           |
| Consultants/R&D only      | Medical monitor (\$400 x 60h/m)       | \$   | 24,000 | 6         | \$         | 144,000   |
|                           | Clin Ops (\$250 x 80h/m)              | \$   | 20,000 | 6         | \$         | 120,000   |
|                           | Drug supply/clin ops (\$200 x50h/m)   | \$   | 10,000 | 6         | \$         | 60,000    |
|                           | Biometrics (statistician, programmer) | \$   | 8,000  | 4         | \$         | 32,000    |
|                           | Reg Aff and Reg Ops                   | \$   | 5,000  | 6         | \$         | 30,000    |
|                           | TOTAL                                 |      |        |           | \$         | 386,000   |
|                           |                                       |      |        |           |            |           |
|                           |                                       |      |        |           |            |           |
| Study total               |                                       |      |        |           | \$         | 1,238,200 |
|                           |                                       |      |        |           |            |           |



### Estimated R&D Cost to Evaluate 200 mg and 250 mg

|                           | Activity                            | Unit | cost   | No. Units | Total | cost   |
|---------------------------|-------------------------------------|------|--------|-----------|-------|--------|
| <b>Clinical study</b>     | Investigator cost                   | \$   | 30,000 | 32        | \$    | 960,   |
|                           | CRO                                 | \$   | 50,000 | 9         | \$    | 450,   |
|                           | PK assays + analysis                | \$   | 3,000  | 32        | \$    | 96,    |
|                           | Correlative studies                 | \$   | 3,000  | 32        | \$    | 96,    |
|                           | Drug supply                         | \$   | 700    | 32        | \$    | 22,    |
|                           | TOTAL                               |      |        |           | \$    | 1,624, |
|                           |                                     |      |        |           |       |        |
| IND maintenance FDA/sites | IB/DSUR preparation (Sept 2024)     | \$   | 40,000 | 1         | \$    | 40,    |
|                           | IRB approvals                       | \$   | 5,000  | 9         | \$    | 45,    |
|                           | TOTAL                               |      |        |           | \$    | 85,    |
| Consultants               | Medical monitor (\$400 x 60h/m)     | \$   | 24,000 | 9         | \$    | 216,   |
|                           | Clin Ops (\$250 x 80h/m)            | \$   | 20,000 | 9         | \$    | 180,   |
|                           | Drug supply/clin ops (\$200 x50h/m) | \$   | 10,000 | 9         | \$    | 90,0   |
|                           | Biometrics                          | \$   | 8,000  | 4         | \$    | 32,    |
|                           | Reg Aff and Reg Ops                 | \$   | 5,000  | 9         | \$    | 45,0   |
|                           | TOTAL                               |      |        |           | \$    | 563,   |
|                           |                                     |      |        |           |       |        |
| Study total               |                                     |      |        |           | \$    | 2,272  |



#### Estimated R&D Cost to Evaluate 24 Patients at RP2D in Phase 2

|                           | Activity                            | Unit | cost   | No. Units | Total | cost      |
|---------------------------|-------------------------------------|------|--------|-----------|-------|-----------|
| Clinical study            | Investigator cost                   | \$   | 30,000 | 24        | \$    | 720,000   |
| Januar Stauy              | Amendment approval at sites         | \$   | 3,000  | 9         | \$    | 27,000    |
|                           | CRO                                 | \$   | 50,000 | 12        | \$    | 600,000   |
|                           | PK assays + analysis                | \$   | 3,000  | 24        | \$    | 72,000    |
|                           | Drug supply                         | \$   | 700    | 24        | \$    | 16,800    |
|                           | Biometrics consultants              | \$   | 8,000  | 6         | \$    | 48,000    |
|                           | TOTAL                               |      |        |           | \$    | 1,483,800 |
|                           |                                     |      |        |           |       |           |
| IND maintenance FDA/sites | IB/DSUR preparation (Sept 2025)     | \$   | 40,000 | 1         | \$    | 40,000    |
|                           | IRB approvals                       | \$   | 5,000  | 9         | \$    | 45,000    |
|                           | TOTAL                               |      |        |           | \$    | 85,000    |
| Consultants/R&D only      | Medical monitor (\$500 x 60h/m)     | \$   | 30,000 | 12        | \$    | 360,000   |
| Consultants/NGD only      | Clin Ops (\$250 x 80h/m)            | \$   | 25,000 | 12        | \$    | 300,000   |
|                           | Drug supply/clin ops (\$200 x50h/m) | \$   | 10,000 | 12        | \$    | 120,000   |
|                           | Reg Aff and Reg Ops                 | \$   | 5,000  | 12        | \$    | 60,000    |
|                           | TOTAL                               |      |        |           | \$    | 840,000   |
|                           |                                     |      |        |           |       |           |
|                           |                                     |      |        |           |       |           |
| Study total               |                                     |      |        |           | \$    | 2,408,800 |



# Voruciclib is the Only Oral CDK9 Inhibitor in Clinical Development in Combination with Venetoclax in AML

| Drug        | Company                 | Target(s)            | CDK9 IC <sub>50</sub> (nM) | ROA  | Indications<br>(ongoing studies)  | Stage  |
|-------------|-------------------------|----------------------|----------------------------|------|---|--------|
| Voruciclib  | MEI Pharma              | CDK 9                | 0.63                       | oral | AML (+venetoclax)   | Ph 1   |
| Fadraciclib | Cyclacel<br>Pharma      | CDK 2, 9             | 26.2                       | oral | <b>AML (single agent)</b> , MDS, T and B-cell lymphoma, biliary tract, endometrial, ovarian, breast, HCC, CRC | Ph 1/2 |
| BTX-A51     | Edgewood<br>Oncology    | CDK 7,9<br>CK1-alpha | 4                          | oral | <b>AML (+azacytidine)</b> , MDS, advanced solid tumors, breast  | Ph 1   |
| SLS-009     | Sellas                  | CDK 9                | 0.9                        | IV   | <b>AML (+venetoclax/+azacytidine)</b> , PTCL, DLBCL, CLL, lymphoma  | Ph 1   |
| KB-0742     | Kronos Bio              | CDK 9                | 6                          | oral | NHL, DLBCL, refractory solid tumors   | Ph 2   |
| PRT-2527    | Prelude<br>Therapeutics | CDK 9                | 0.98                       | IV   | NHL, TCL, advanced solid tumors (completed)   | Ph 1   |
| Enitociclib | Vincerx<br>Pharma       | CDK 9                | 3-16                       | IV   | MYC-driven advanced cancers:<br>DLBCL, PTCL & solid tumors  | Ph1    |





# Scientific Rationale for Voruciclib Development in B-cell Malignancies & Solid Tumors

#### **Life Cycle Opportunities for Voruciclib**

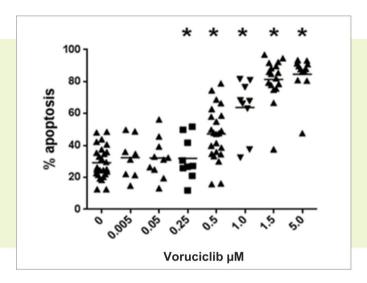
- Lymphoid malignancies with MCL1 amplification or increased expression
  - PTCL
  - CLL in combination with venetoclax
  - MCL
  - DLBCL
  - Multiple myeloma
- Solid tumors with MCL1 amplification or increased expression
  - Prostate cancer
  - Small cell lung cancer (SCLC)
  - Hepatocellular carcinoma (HCC)

- Cancers with MYC amplification or increased expression (e.g., TNBC, SLCL, HCC, ovarian cancer)
  - PDX tumor models ongoing
- Cancers with KRAS mutations (NSCLC, CRC)
  - Synergy with KRAS G12C inhibitors observed in cell lines

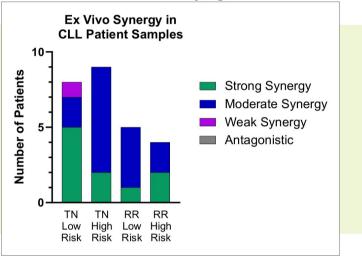


#### Voruciclib Shows Single Agent Efficacy and Synergizes with Venetoclax in CLL Cells

Voruciclib induces apoptosis in CLL cells<sup>1</sup>



Voruciclib + Venetoclax shows synergy in all CLL patient samples tested: independent of treatment status and cytogenetic risk<sup>2</sup>



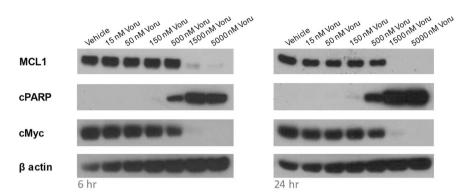
- TN: treatment naïve. RR: Relapsed / refractory
- Low risk=IGHV mutated plus low risk FISH. High risk=IGHV unmutated and/or high-risk FISH(11q-or 17p-)
- CLL cells assayed with human stromal cells.
- Synergy based on Combination Index values: Strong synergy (0-0.3), Moderate synergy (0.31-0.7), Weak synergy (0.71-1.0), Antagonsitic (>1.0)



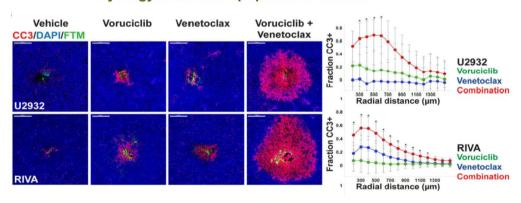
#### **Voruciclib Synergizes with Venetoclax in DLBCL Nonclinical Models**

- Voruciclib induces dose-dependent reduction in MYC and MCL1 proteins in DLBCL cell lines
- Voruciclib synergizes with venetoclax to induce caspase cleavage after CIVO intra-tumoral injections
- Voruciclib and venetoclax synergize to reduce tumor growth in DLBCL mouse xenograft models

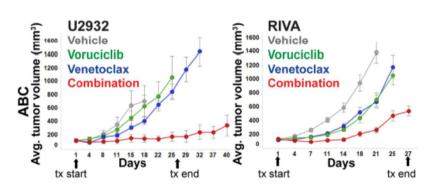
#### VOR reduces MCL1 & MYC in DLBCL cell lines



#### Synergy increases apoptosis in tumors



#### Synergy inhibits tumor growth





Dey, et al. Scientific Reports, 2017 Dey et al. Blood, 2016. ASH conference poster #4167. Presage Biosciences (Data on file)

## Single-Agent Phase 1 Studies in Solid Tumors Demonstrated Reduction in MYC and was Generally Well-tolerated at Expected Therapeutic Doses

#### 2 weeks on, 1 week off schedule (N = 29 pts)

- 75 to 850 mg
- MTD = 600 mg
- 41% disease control rate

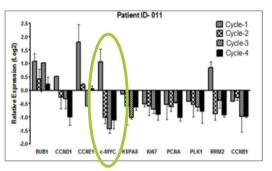
#### Daily continuously schedule (N = 39 pts)

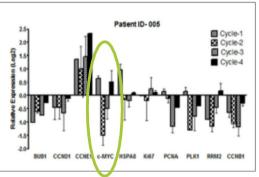
- 75 to 500 mg
- MTD = 350 mg
- 31% disease control rate

#### Safety data

- No evidence of myelosuppression
- Most common AEs involved GI tract

- 10 gene biomarkers evaluated in blood in daily dosing study
- c-MYC expression decreased in ~60% patients tested (n=25)

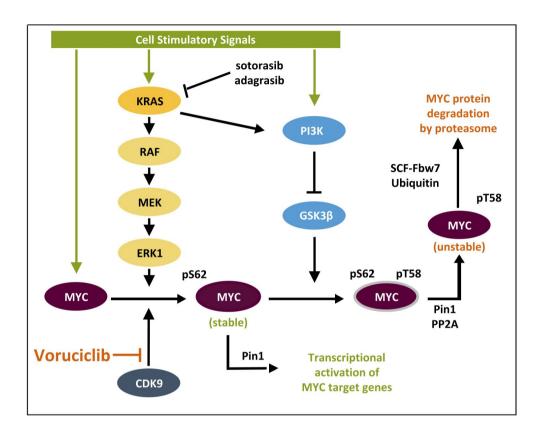






#### CDK9 can influence MYC protein stability in KRAS mutant cancer cells

- Mutations in KRAS at G12, G13, and Q61 are oncogenic drivers in many cancers, including lung, colorectal, pancreatic, bone marrow, and endometrial carcinomas.
- KRAS mutations are frequently accompanied by stabilization of the MYC oncoprotein through increased MYC transcription and decreased protein degradation.
- MYC protein stability is mediated by phosphorylation of MYC on Ser 62 by ERK and CDK9 kinases.





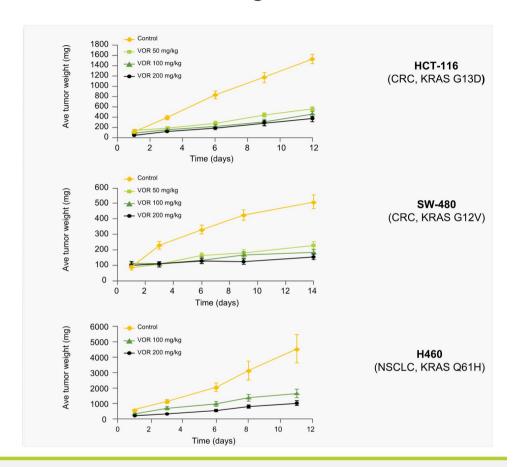
#### Voruciclib Inhibits KRAS Mutant Cell Lines In Vitro and In Vivo in Xenograft Mice

VOR inhibited proliferation of KRAS mutant cell lines from multiple indications

- CRC
- Esophageal
- Multiple Myeloma
- NSCLC
- Ovarian
- PDAC

### VOR inhibited proliferation of cell lines with various KRAS mutations

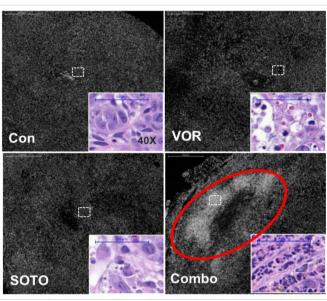
- G12C, G12D, G12A, G12V
- G13C, G13D
- Q61H





### Synergy of CDK9 Inhibition with Direct KRAS Inhibitors

#### Voruciclib Synergizes with Sotorasib in an In Vivo MIA Paca-2 Tumor Model



Representative IHC images of DAPI and H&E staining in a Murine Xenograph Model

Cell death around each microinjection site measured by nuclear condensation and fragmentation

### Voruciclib Synergizes With *Kras* G12c Inhibitors *In Vitro*

|            |             |                                | Synergy Scores           |  |  |  |  |
|------------|-------------|--------------------------------|--------------------------|--|--|--|--|
| Cell Line  | KRAS<br>mut | Sensitivity to G12C Inhibitors | Voruciclib+<br>Sotorasib | Voruciclib+<br>Adagrasib   |  |  |  |
| NCI-H23    | G12C        | High                           |                          |  |  |  |  |
| HCC1171    | G12C        | High                           |                          |  |  |  |  |
| MIA Paca-2 | G12C        | High                           |                          |  |  |  |  |
| SW837      | G12C        | Moderate - High                |                          |  |  |  |  |
| NCI-H2030  | G12C        | High                           |                          |  |  |  |  |
| Calu-1     | G12C        | Moderate - High                |                          |  |  |  |  |
| HCC-44     | G12C        | Moderate - High                |                          |  |  |  |  |
| NCI-H1373  | G12C        | Moderate - High                |                          |  |  |  |  |
| NCI-H358   | G12C        | High                           |                          |  |  |  |  |
| NCI-H1792  | G12C        | Moderate - High                |                          |  |  |  |  |
| KYSE-410   | G12C        | Low - High                     |                          |  |  |  |  |
| Panc 04.03 | G12D        | Low                            |                          |  |  |  |  |
| Gp2D       | G12D        | Low                            |                          |  |  |  |  |
| LS-513     | G12D        | Low - Moderate                 |                          |  |  |  |  |
| AsPC-1     | G12D        | Low                            |                          | -small cell lung cancer cell lines creatic adenocarcinoma cell lines |  |  |  |
| HPAF-II    | G12D        | Low                            |                          | prectal cancer cell lines  |  |  |  |
| TOV-21G    | G13C        | Low                            |                          | rian cell line   |  |  |  |



Moderate

# Voruciclib Presents a Strong Value Proposition as the Only Oral CDK9 Inhibitor in Clinical Development in Combination with Venetoclax in AML

- Investment rationale
  - Opportunity to continue ongoing Phase 1 study (16-32 patients) to value inflection point by YE2024 and Phase 2 study (24 patients) in CY2025 for modest investment
- Initial focus on R/R AML
  - Significant medical need in large number of patients
    - Mutation agnostic therapy with potential to address >50% of AML patients
  - Clear and efficient path to marketing approval
- Voruciclib plus venetoclax
  - Durable responses observed in patients with R/R AML after venetoclax failure
  - On target effect observed on Mcl-1 and RNA Pol II
- Life cycle management
  - Market and scientific rationale to move to 1L AML
  - Utility where venetoclax is approved/used in other hematologic indications
  - Potential to address several solid tumors associated with MYC overexpression

#### **Estimated R&D costs**

- Stage 1a: ~\$1.2M
  - 16 patients
  - Evaluate 200 mg only
  - Readout December 2024
- Stage 1b: ~\$1.1M
  - 16 patients
  - Evaluate 250 mg
  - Readout March 2025
- Stage 2: ~\$2.4M
  - 24 patients
  - Dose 200 or 250 mg
  - Readout December 2025

TOTAL: ~ \$4.7M to complete Phase 1 and Phase 2 studies with ~56 patients by YE2025





# **Voruciclib: An Oral CDK9 Inhibitor for AML and Other Malignancies**

July 2024