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## Corporate Presentation

*NASDAQ: CRIS*

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This presentation contains certain forward-looking statements about Curis, Inc. (“we,” “us,” or the “Company”) within the meaning of the Private Securities Litigation Reform Act of 1995, as amended. Words such as “expect(s),” “believe(s),” “will,” “may,” “anticipate(s),” “focus(es),” “plans,” “mission,” “strategy,” “potential,” “estimate(s),” “intend,” “project,” “seek,” “should,” “would” and similar expressions are intended to identify forward-looking statements. Forward-looking statements are statements that are not historical facts, reflect management’s expectations as of the date of this presentation, and involve important risks and uncertainties. Forward-looking statements herein include, but are not limited to, statements with respect to the timing and results of future clinical and pre-clinical milestones; the timing of future preclinical studies and clinical trials and results of these studies and trials; the clinical and therapeutic potential of our drug candidates; our cash runway; the proposed focus on emavusertib and management’s ability to successfully achieve its goals. These forward-looking statements are based on our current expectations and may differ materially from actual results due to a variety of important factors including, without limitation, risks relating to: whether and when the U.S. Food and Drug Administration may take further regulatory action with regard to our trials, whether any of our drug candidates will advance further in the clinical development process and whether and when, if at all, they will receive approval from the FDA or equivalent foreign regulatory agencies; whether historical preclinical results will be predictive of future clinical trial results; whether historical clinical trial results will be predictive of future trial results; whether any of our drug candidate development efforts will be successful; whether any of our drug candidates will be successfully marketed if approved; our ability to achieve the benefits contemplated by our collaboration agreements; management’s ability to successfully achieve its goals; the sufficiency of our cash resources; our ability to raise additional capital to fund our operations on terms acceptable to us or the use of proceeds of any offering of securities or other financing; general economic conditions; competition; and the other risk factors contained in our periodic reports filed with the Securities and Exchange Commission, including the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2022 and the Company's Quarterly Reports on Form 10-Q for the quarters ended March 31, 2023 and June 30, 2023, which are available on the SEC website at [www.sec.gov](http://www.sec.gov). You are cautioned not to place undue reliance on these forward-looking statements that speak only as of the date hereof, and we do not undertake any obligation to revise and disseminate forward-looking statements to reflect events or circumstances after the date hereof, or to reflect the occurrence of or non-occurrence of any events, except as required by law.

This presentation includes statistical and other industry and market data that we obtained from industry publications and research, surveys, and studies conducted by third parties as well as our own estimates. All of the market data used in this presentation involves a number of assumptions and limitations, and you are cautioned not to give undue weight to such data. Industry publications and third-party research, surveys, and studies generally indicate that their information has been obtained from sources believed to be reliable, although they do not guarantee the accuracy or completeness of such information. Our estimates of the potential market opportunities for our product candidates include several key assumptions based on our industry knowledge, industry publications, third-party research, and other surveys, which may be based on a small sample size and may fail to accurately reflect market opportunities. While we believe that our internal assumptions are reasonable, no independent source has verified such assumptions.

# Corporate Overview

*Leader of IRAK4 Inhibition in Oncology; Developing Emavusertib with Broad Hematological Applications*

## Investment Thesis

Emavusertib is a highly-active inhibitor with potential to be the cornerstone agent in hematologic malignancies  
Cash runway into 2025 – Proforma cash of \$77.4M as of June 30, 2023

## Clinical Path

- R/R AML with FLT3 or Spliceosome mutation – Potential fast path to NDA
- R/R PCNSL in combination with ibrutinib – Potential fast path to NDA
- AML/MDS in combination with azacitidine and/or venetoclax – Potential frontline position

## Current Trials

**TakeAim Leukemia:** IRAK4 and FLT3 are the two most prevalent drivers of disease in AML/MDS<sup>1,2</sup>  
**TakeAim Lymphoma:** emavusertib/ibrutinib enables blockade of both pathways driving NF-κB in NHL

## Market Opportunity

There are no drugs approved for IRAK4 inhibition in oncology

- AML/MDS: **333K patients<sup>3</sup>** (*current standard of care is HMA*)
- NHL/CLL: **1.9M patients<sup>3</sup>** (*current standard of care is BTKi*)

## Near Term Milestones

- R/R PCNSL data in combination with ibrutinib at ASH 2023
- R/R AML FLT3 and Spliceosome data as a monotherapy
- Clarity with FDA on registrational study design for R/R AML FLT3 and Spliceosome
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A circular inset image showing a microscopic view of a cell, likely a leukemia cell, with a textured, blue, and somewhat irregular surface. The cell is centered in the background of the slide.

Emavusertib in Leukemia  
(AML/MDS)

# Emavusertib has A Unique Molecular Fingerprint

*Targeted design is specifically engineered to be best-in-class*

The NCI selected emavusertib for NCI-sponsored research and clinical studies of IRAK4

**Emavusertib Kinase Interaction Map**

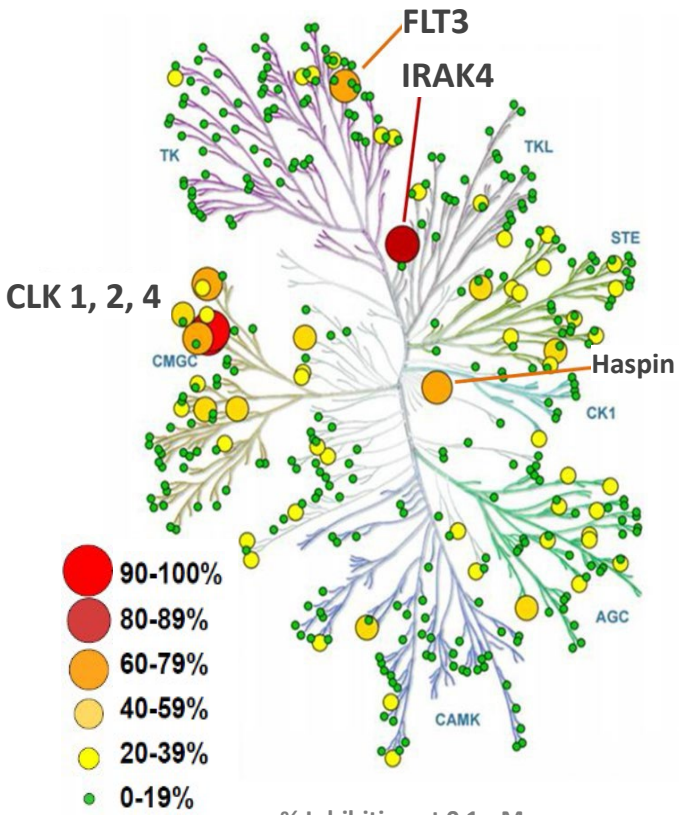


Illustration reproduced courtesy of Cell Signaling Technology

**Emavusertib Binding Affinity**

Target	K <sub>d</sub> nM
IRAK1	12,000
IRAK2	>20,000
IRAK3	8,500
<b>IRAK4</b>	<b>23</b>
DYRK1A	25
<b>FLT3 WT</b>	<b>31</b>
<b>FLT3 (D835H)</b>	<b>5</b>
<b>FLT3 (D835V)</b>	<b>44</b>
<b>FLT3 (D835Y)</b>	<b>3</b>
<b>FLT3 (ITD)</b>	<b>8</b>
<b>FLT3 (K663Q)</b>	<b>47</b>
<b>FLT3 (N841I)</b>	<b>16</b>
Haspin (GSG2)	32
CLK1	10
CLK2	20
CLK3	>20,000
CLK4	14
TrkA	130

DiscoverX Kinase Panel (378 kinases screened)

*high binding affinity to IRAK4  
(>97% inhibition achieved at clinical dose concentrations)*

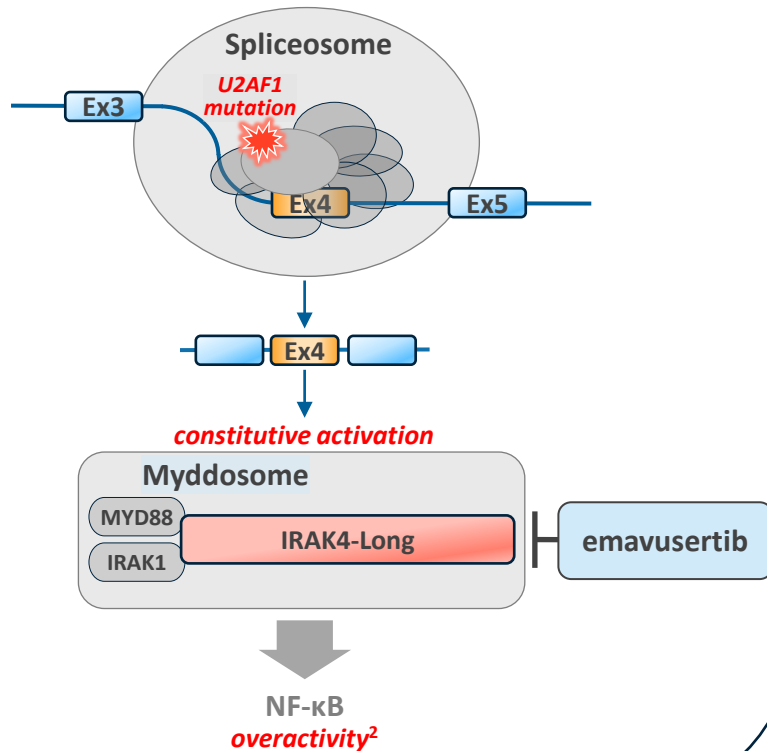
*high binding affinity to FLT3  
contributes additional anti-cancer activity, differentiating emavusertib from other IRAK4-directed therapies*

# Emavusertib Has a Unique Mechanism of Action

*The two primary targets of emavusertib are independent drivers of cancer*

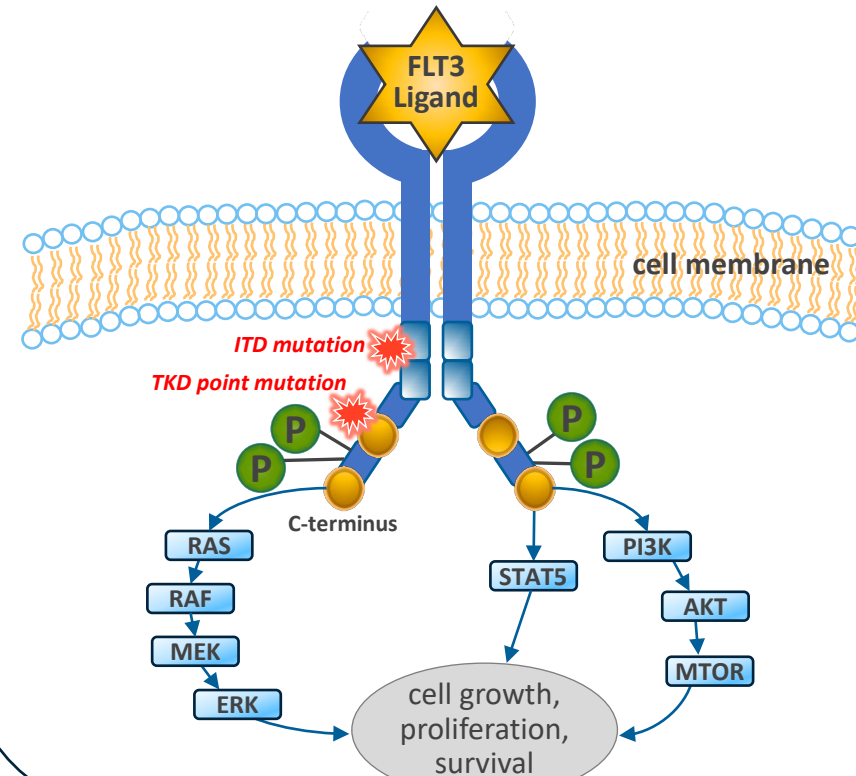
## IRAK4

*spliceosome mutations drive overexpression of IRAK4-Long, which constitutively activates the myddosome, driving NF-κB overactivity*



## FLT3

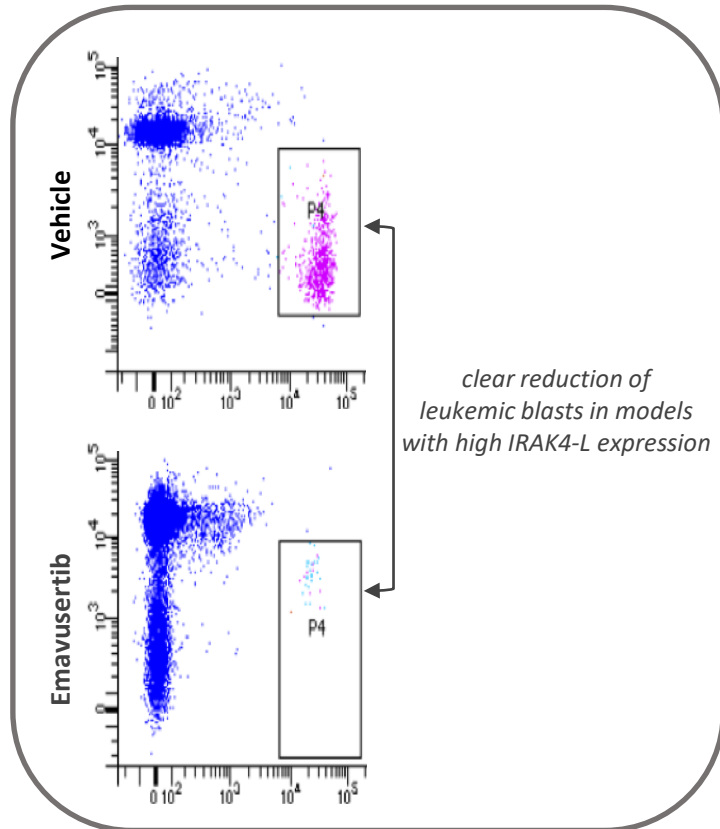
*genetic mutations cause constitutive activation of FLT3 and downstream cell growth, proliferation, and survival pathways*



# Preclinical Data

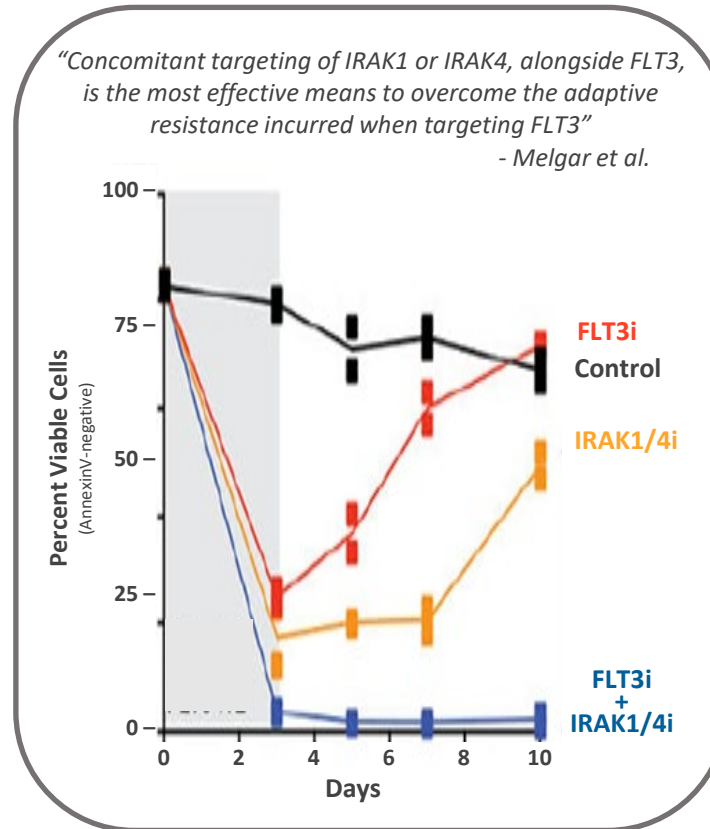
## Rationale for monotherapy and combination with azacitidine/venetoclax

### Monotherapy in IRAK4



emavusertib demonstrates monotherapy activity in patient-derived xenografts<sup>1</sup>

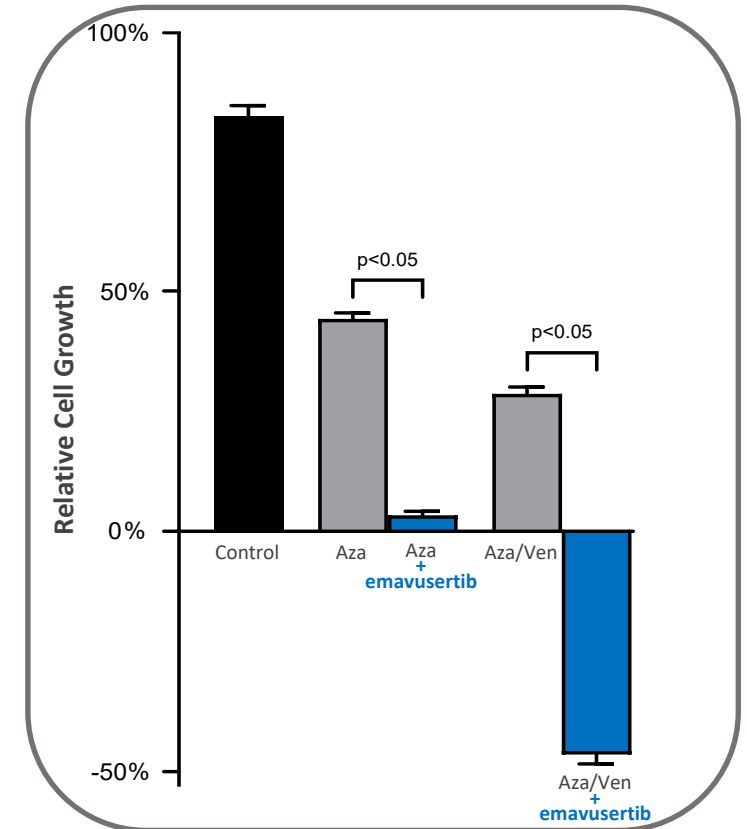
### Monotherapy in FLT3



IRAK/FLT3 combination demonstrates synergy in pre-clinical studies<sup>2</sup>

FLT3-ITD cells treated for 3 days with DMSO (control), quizartinib (0.5 μM), IRAKi (10 μM), and quizartinib + IRAKi

### Combination with Aza/Ven



emavusertib demonstrates synergy with both azacitidine and venetoclax in THP-1 model<sup>3</sup>

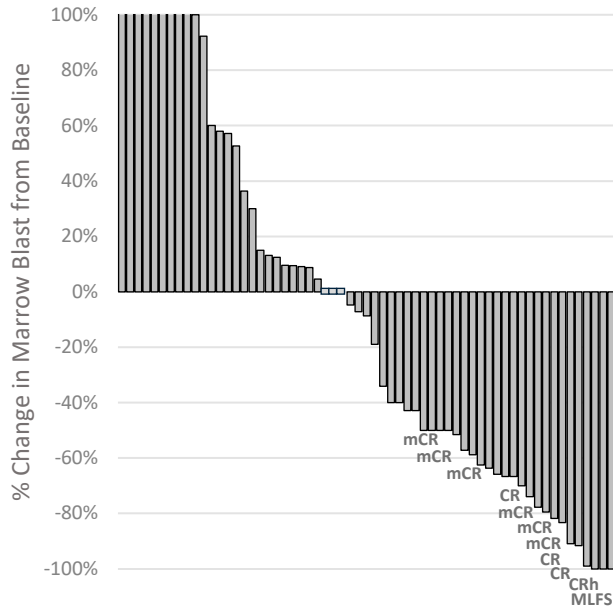
AML cell lines treated for 96 hrs (values presented as mean ± SE)

1) Choudhary et al. AACR 2017; 2) Melgar, Sci Transl Med. 2019; 3) Curis AML MDS poster, EHA 2021

# Emavusertib Compelling Initial Clinical Data

*Showing clear single agent activity where expected in clinical studies*

84 AML/MDS Patients  
all comers, all dose levels

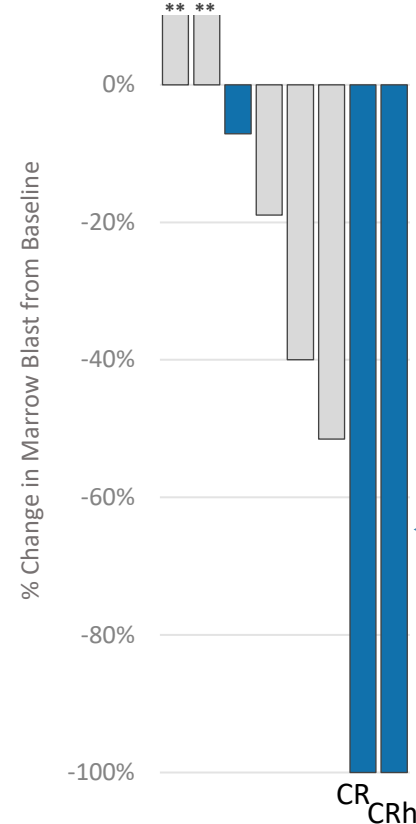


7	AML FLT3*
8	AML Spliceosome*
24	AML Other
17	AML Not Evaluable for Marrow Assessment
12	MDS Spliceosome
13	MDS Other
6	MDS Not Evaluable for Marrow Assessment

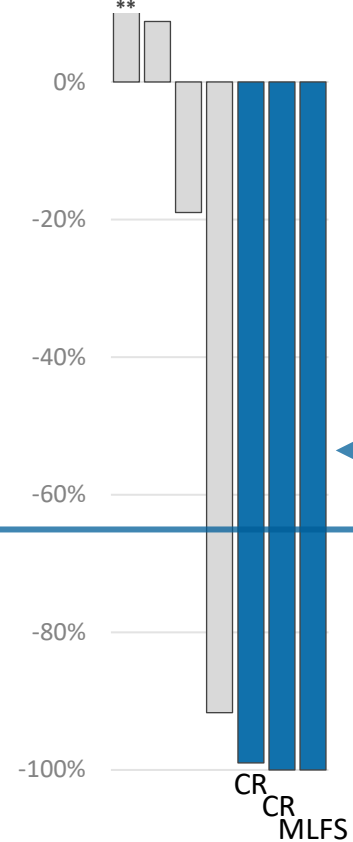
84 Total patients enrolled in monotherapy

**Strongest  
monotherapy signal  
observed where expected  
(Spliceosome/FLT3 patients)**

8 AML Patients  
Spliceosome Mutation\*



7 AML Patients  
with FLT3 Mutation\*



**Duration of Responses: 5.6 – 7.0 months**

Note: 84 total AML/MDS patients enrolled in monotherapy as of Feb 9, 2023 with data cut-off as of Mar 17, 2023;

\* Three AML patients had both FLT3 and Spliceosome mutation and are counted in both populations; evaluable patients include all patients whose disease was determined to be evaluable for objective response with baseline and post-treatment marrow assessments

\*\* Denotes blast percent increase > 10%



# Potential Cornerstone Treatment for Hematologic Malignancies

*Emavusertib inhibits both IRAK4 and FLT3 – key disease drivers in leukemia and lymphoma*

## Leukemia

Monotherapy targets the two largest **genetically-defined** patient populations in AML/MDS<sup>a,6-8</sup>

Emavusertib synergizes with existing treatments<sup>5</sup> as **IRAK4-L is expressed in nearly all AML/MDS patients**

**AML/MDS opportunity: 333K patients<sup>3</sup>**

Emavusertib has demonstrated clinical activity across both targeted and non-targeted populations<sup>1,4,5</sup>

## Lymphoma

Initial clinical data show potential to **overcome BTKi resistance** in patients with NHL/CLL<sup>1</sup>

Combination with BTKi **blocks both BCR and TLR signaling**, maximizing downregulation of NF- $\kappa$ B<sup>2</sup>

**NHL/CLL opportunity: 1.9M patients<sup>3</sup>**

<sup>a</sup> Patients with *FLT3* mutation or *IRAK4-L* overexpression. 1) Joffe, et al. *Hemasphere*. 2022. June 6(Suppl 3):1011-1012; 2) Guidetti, et al. *AACR Mol Cancer Ther*. 2021;20(Suppl 12):P073; 3) 2022 Prevalence Data DRG Clarivate; 4) Garcia-Manero, et al. *Hemasphere*. 2022. June 6(Suppl 3):30-31; 5) Curis press release. <https://investors.curis.com/2022-12-12-Curis-Announces-Additional-Encouraging-Clinical-Data-from-TakeAim-Leukemia-Study-of-emavusertib-CA-4948-in-Monotherapy-R-R-AML-and-hrMDS>, accessed May 19, 2023; 6) Smith, et al. *Nat Cell Biol*. 2019; 7) Choudhary, et al. *eLife*. 2022;11:378136; 8) Saygin, et al. *J Hematol Oncol*. 2017 Apr 18.

# Emavusertib in Leukemia (AML/MDS)

*The ideal candidate to address the two largest genetically-defined populations in AML/MDS*

Emavusertib addresses the two largest genetically-defined populations in AML/MDS:

- 1) IRAK4-L (>50% of population)<sup>1</sup>
- 2) FLT3 (>25% of population)<sup>2</sup>

- Clear single-agent activity
- Genetically-defined patient population
- Dual targeting of IRAK4 and FLT3 may prevent adaptive resistance observed with current FLT3 inhibitors<sup>3</sup>



## Next Steps

### TakeAim Leukemia Study

- *Monotherapy: R/R AML with FLT3  
R/R AML with Spliceosome*
- *Combination: AML/MDS in combination  
with azacitidine/venetoclax*

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Emavusertib in Lymphoma  
(NHL/CLL)

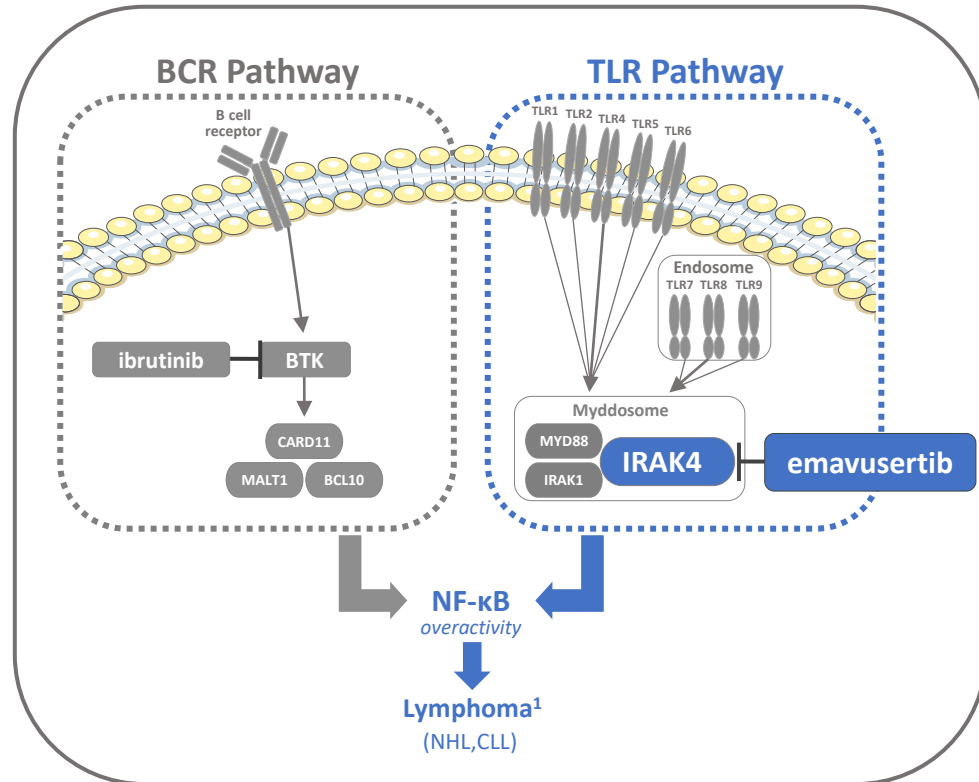
# Emavusertib in Lymphoma

*Combination therapy provides complimentary inhibition of two pathways that drive NF-κB*

## **NFκB Biology:**

### **Two Pathways Drive NHL/CLL**

*BCR and TLR Pathways independently drive NF-κB overactivity  
(and NF-κB drives NHL/CLL)*

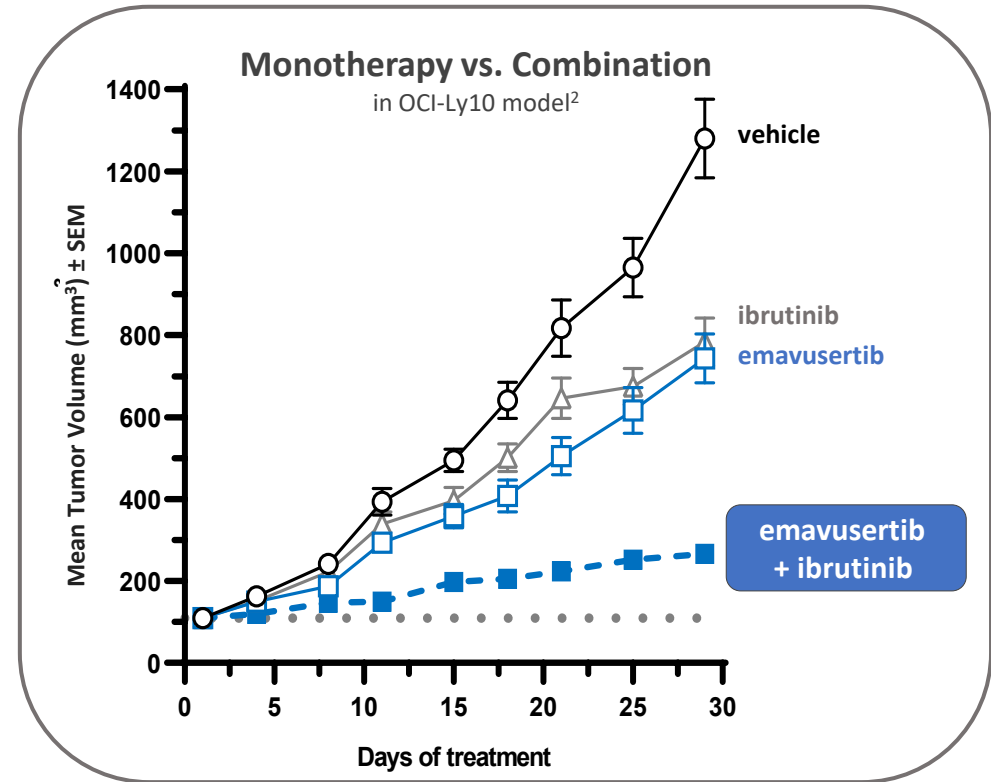


1) IMBRUVICA Package Insert. Rev 08/2018

## **Clinical Strategy:**

### **Block both pathways with Combination Therapy**

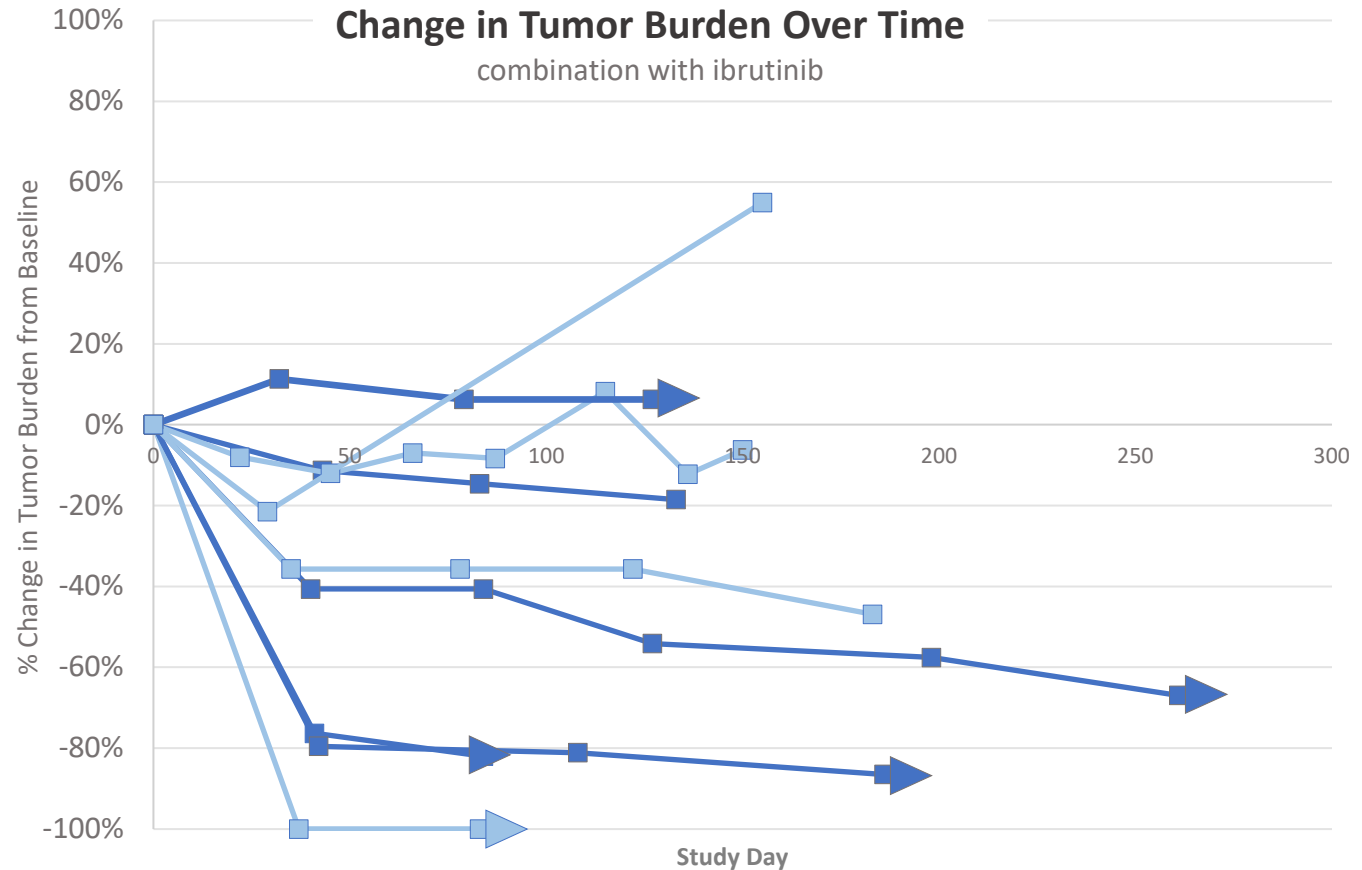
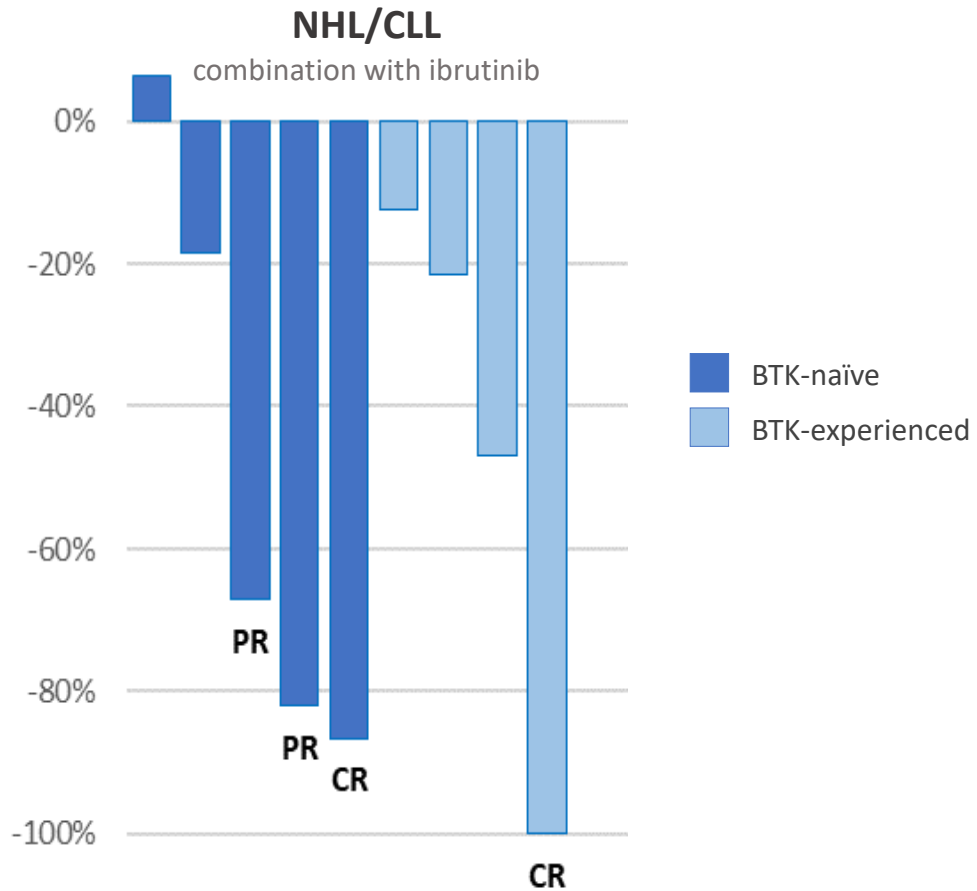
*In preclinical testing, blocking both IRAK4 and BTK  
drove tumor reduction better than blocking either one alone*



2) Booher et al. Waldenström Roadmap Symposium 2019

# Initial Clinical Data in Lymphoma

*Majority of patients achieved decreases in tumor burden, including complete responses*



Note: Data from ASCO 2022 poster presentation  
Response evaluable patients with baseline and post-treatment disease assessment at data cutoff

# Clinical Strategy in Lymphoma

*The ideal candidate to combine with BTKi to maximize downregulation of NF-κB*

- Patients are currently treated with BTKi because it downregulates NF-κB
- Two pathways drive NF-κB:
  - 1) BCR Pathway: *addressed by blocking BTK*
  - 2) TLR Pathway: *addressed by blocking IRAK4*
- Initial clinical data suggest blocking both pathways may overcome resistance to ibrutinib



## Next Steps

### TakeAim Lymphoma Study

- *Combination with BTKi: R/R PCNSL*

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End of Corporate Presentation

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