



## DAVA Oncology – 2023 Bermuda Heme Conference

*Emavusertib (IRAK4 inhibitor) in Development for Patients with AML/MDS and PCNSL*

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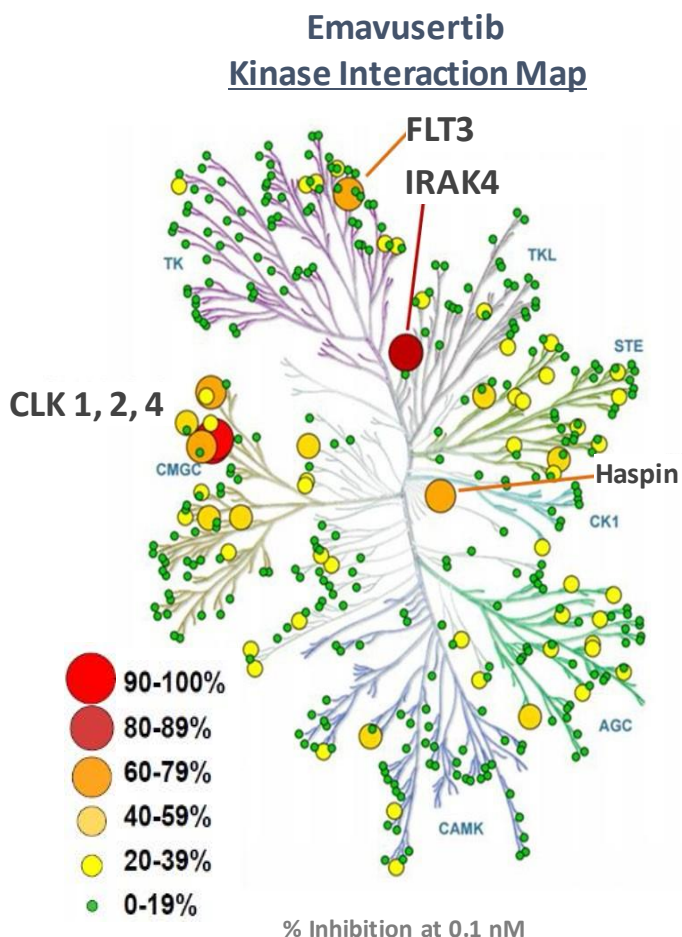
A circular inset image showing a microscopic view of a cell cluster, likely a leukemia cell, with a textured, blue, and somewhat irregular surface. The cluster is centered in the image, and a white horizontal bar with text is overlaid across its middle.

Emavusertib in Leukemia  
(AML/MDS)

# Unique Molecular Fingerprint

*Molecular design tailored to be the best-in-class IRAK4 inhibitor*

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



## 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

*high binding affinity to IRAK4  
(>97% inhibition achieved at RP2D concentrations)*

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

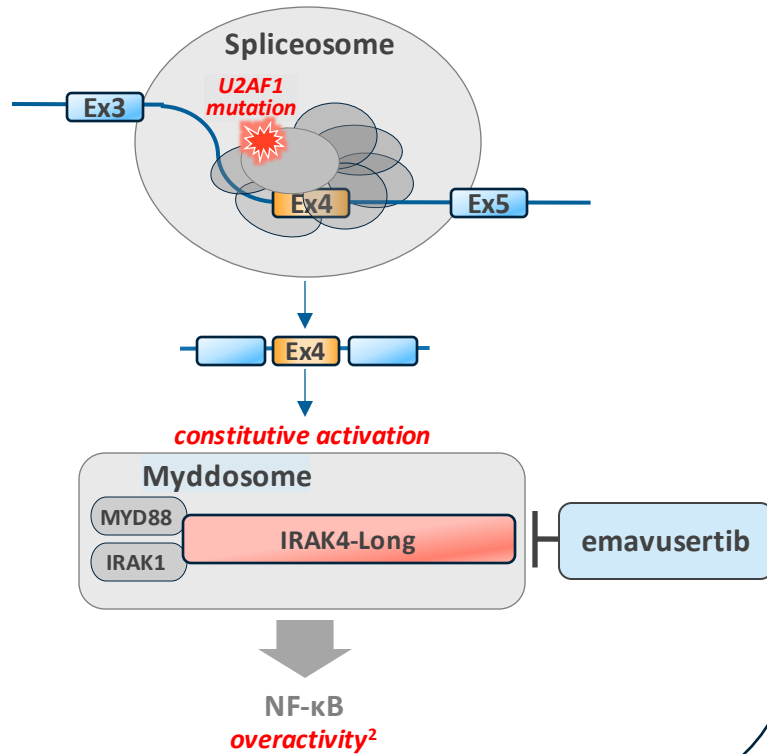
DiscoverX Kinase Panel  
(378 kinases screened)

# Mechanism of Action

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

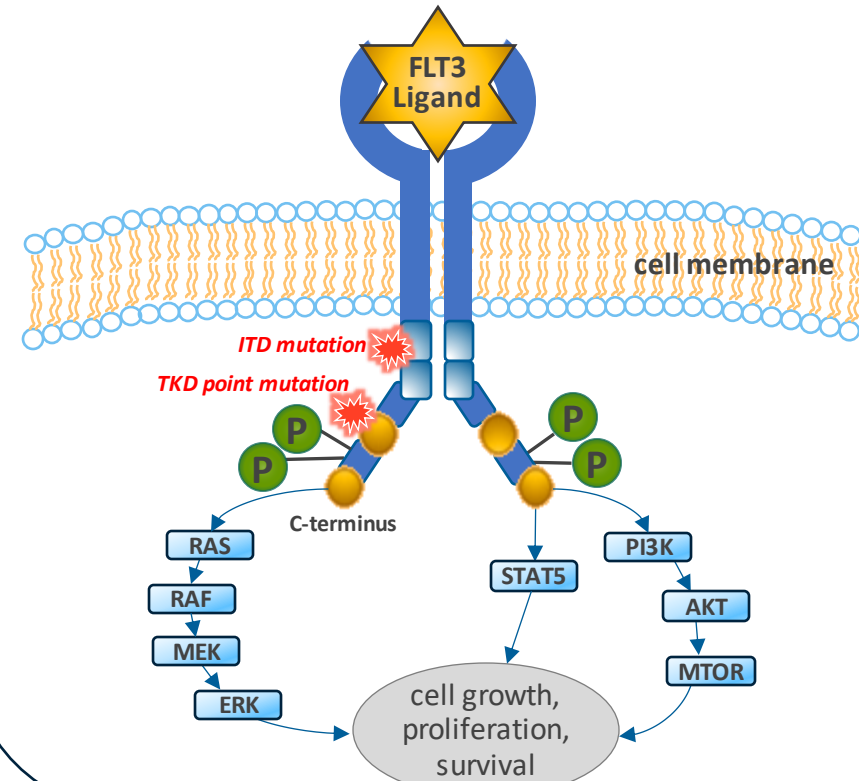
## IRAK4

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



## FLT3

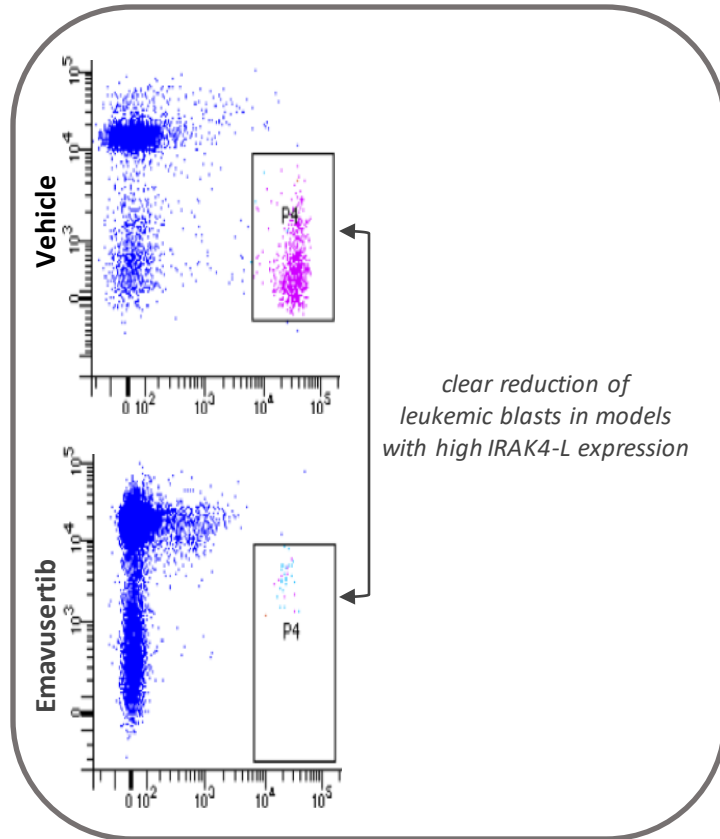
*genetic mutations cause constitutive activation of FLT3 and downstream cell growth, proliferation, and survival pathways*



# Preclinical Data

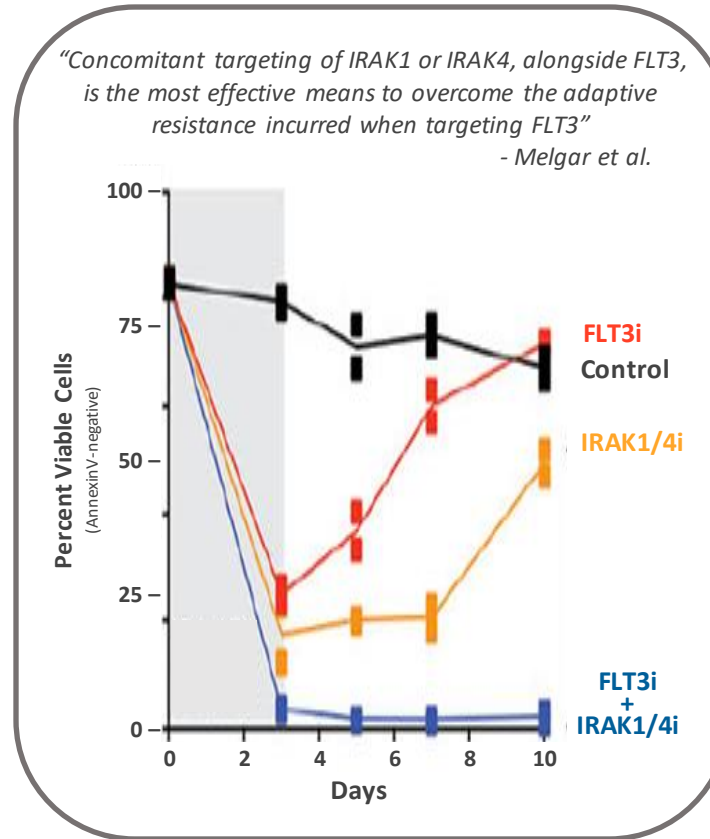
## Rationale for monotherapy and combination with azacitidine/venetoclax

### Monotherapy in IRAK4



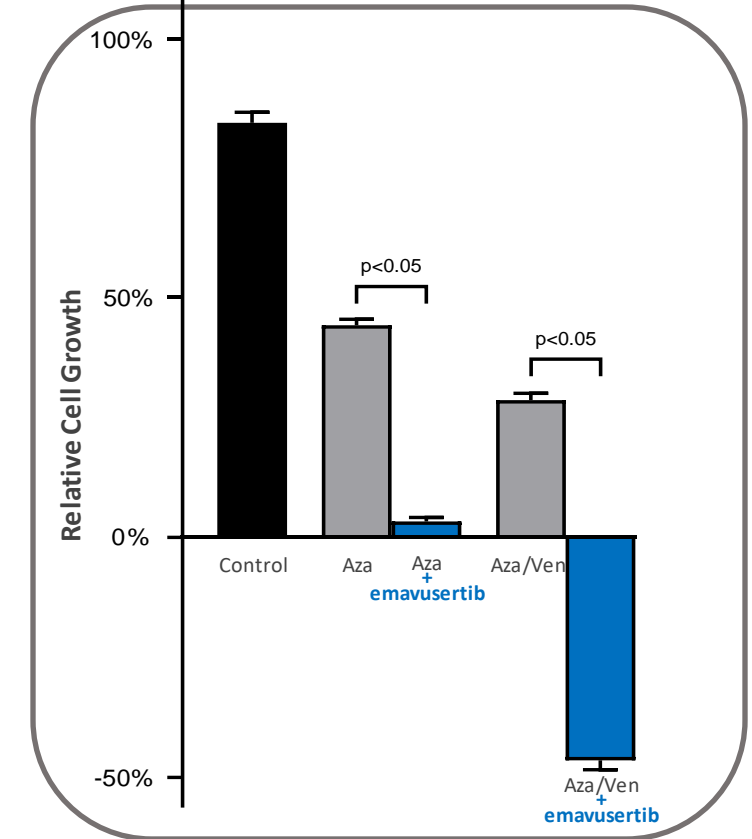
emavusertib demonstrates monotherapy activity in patient-derived xenografts<sup>1</sup>

### Monotherapy in FLT3



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

### Combination with Aza/Ven



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

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

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

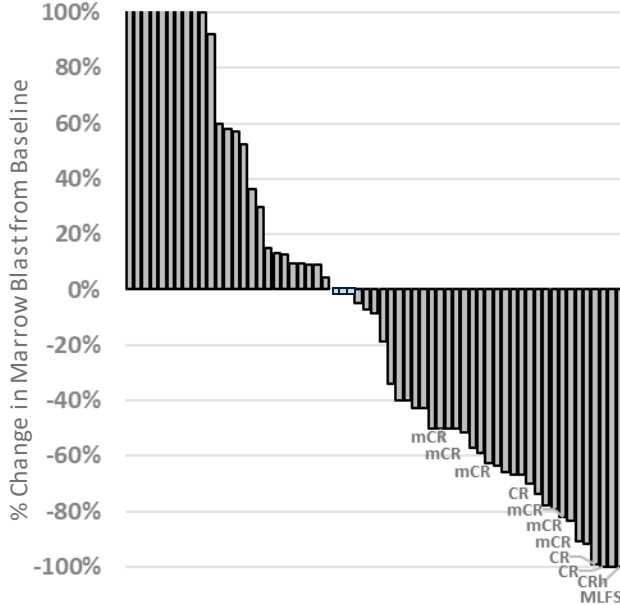
AML cell lines treated for 96 hrs (values presented as mean ± SE)



# Initial Clinical Data

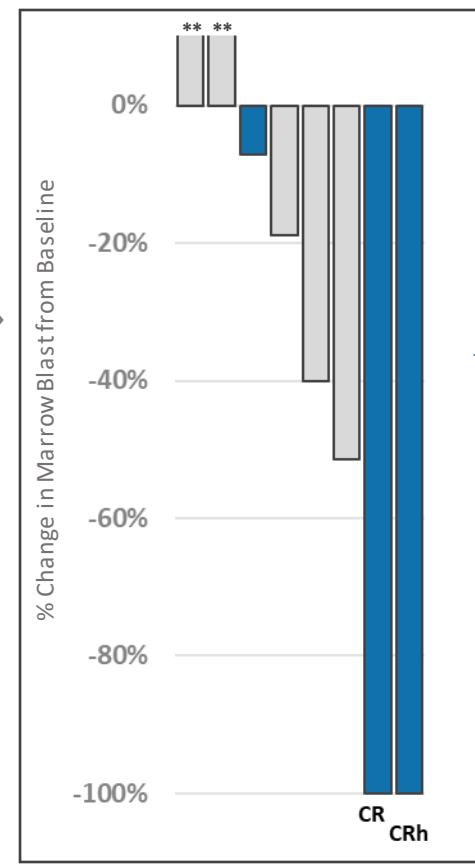
*Emavusertib is showing clear single agent activity where expected in clinical studies*

**84 AML Patients  
all comers, all dose levels**

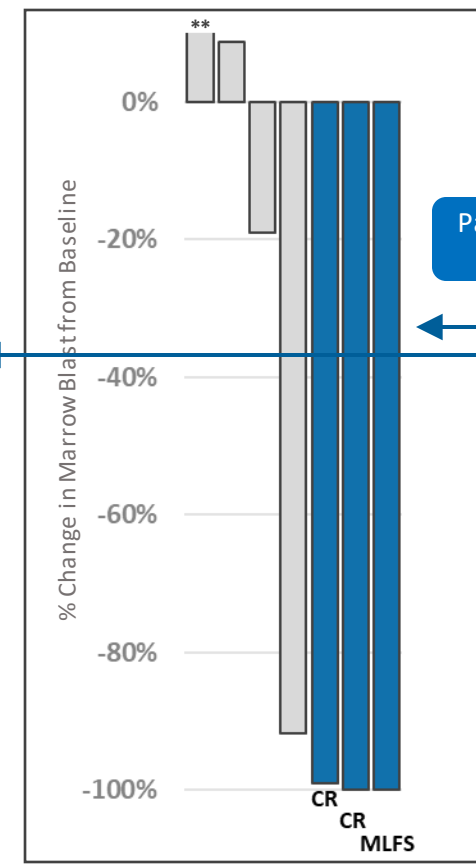


**strongest monotherapy signal  
observed where expected  
(Spliceosome/FLT3 patients)**

**8 AML Patients  
Spliceosome Mutation\***



**7 AML Patients  
with FLT3 Mutation\***



Patients with ≤ 2 prior lines  
treated at 300 mg BID

Duration of Responses: 5.6 – 7.0 months

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

Note: 84 total patients enrolled 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%

# Clinical Strategy in Leukemia

## *TakeAim Leukemia Strategy for Monotherapy and Combination*

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### ***Potential for fast path to NDA***

#### **Monotherapy**

Enroll 20 Patients (2L/3L)  
in genetically-defined populations

- R/R AML with FLT3
- R/R AML with Spliceosome

*For each indication, collect clinical data in ~20 patients to facilitate pivotal design discussions with regulatory agencies, including potential for accelerated development*

### ***Potential for high value front-line position***

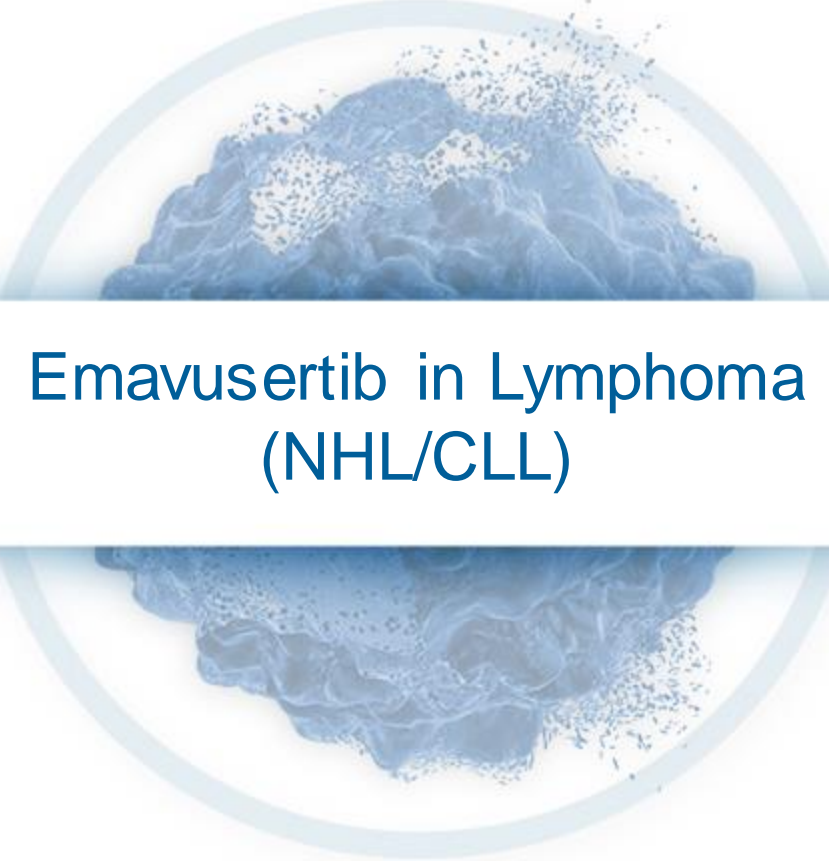
#### **Combination**

Enroll 20 Patients (1L)  
all comers

- 1<sup>st</sup> line AML combination with aza/ven
- 1<sup>st</sup> line MDS combination TBD

*For each indication, collect clinical data in ~20 patients to establish safety and anti-cancer activity to support discussions with regulatory agencies in front-line opportunity*



A circular inset image showing a microscopic view of a cell, likely a lymphoma cell, with a textured, blue, and granular surface. The cell is centered in the background of the slide.

Emavusertib in Lymphoma  
(NHL/CLL)

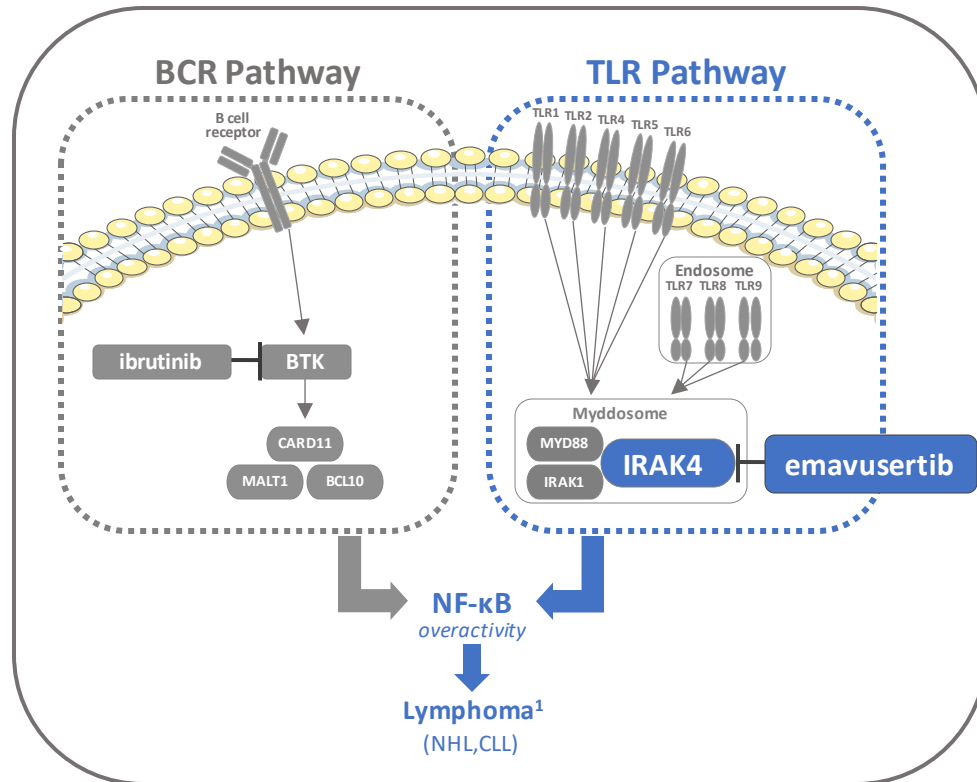
# Emavusertib in Lymphoma

Combination therapy provides complimentary inhibition of two pathways that drive NF- $\kappa$ B

## NF $\kappa$ B Biology:

### Two Pathways Drive NHL/CLL

BCR and TLR Pathways independently drive NF- $\kappa$ B overactivity  
(and NF- $\kappa$ B drives NHL/CLL)

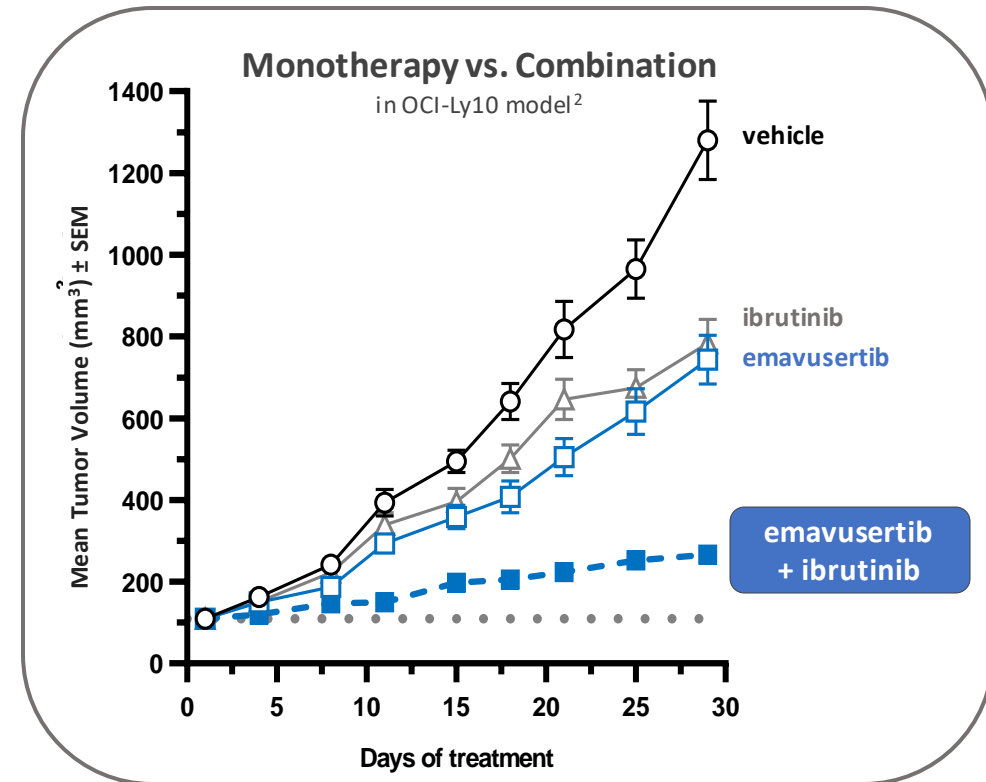


1) IMBRUVICA Package Insert. Rev 08/2018

## Clinical Strategy:

### Block both pathways with Combination Therapy

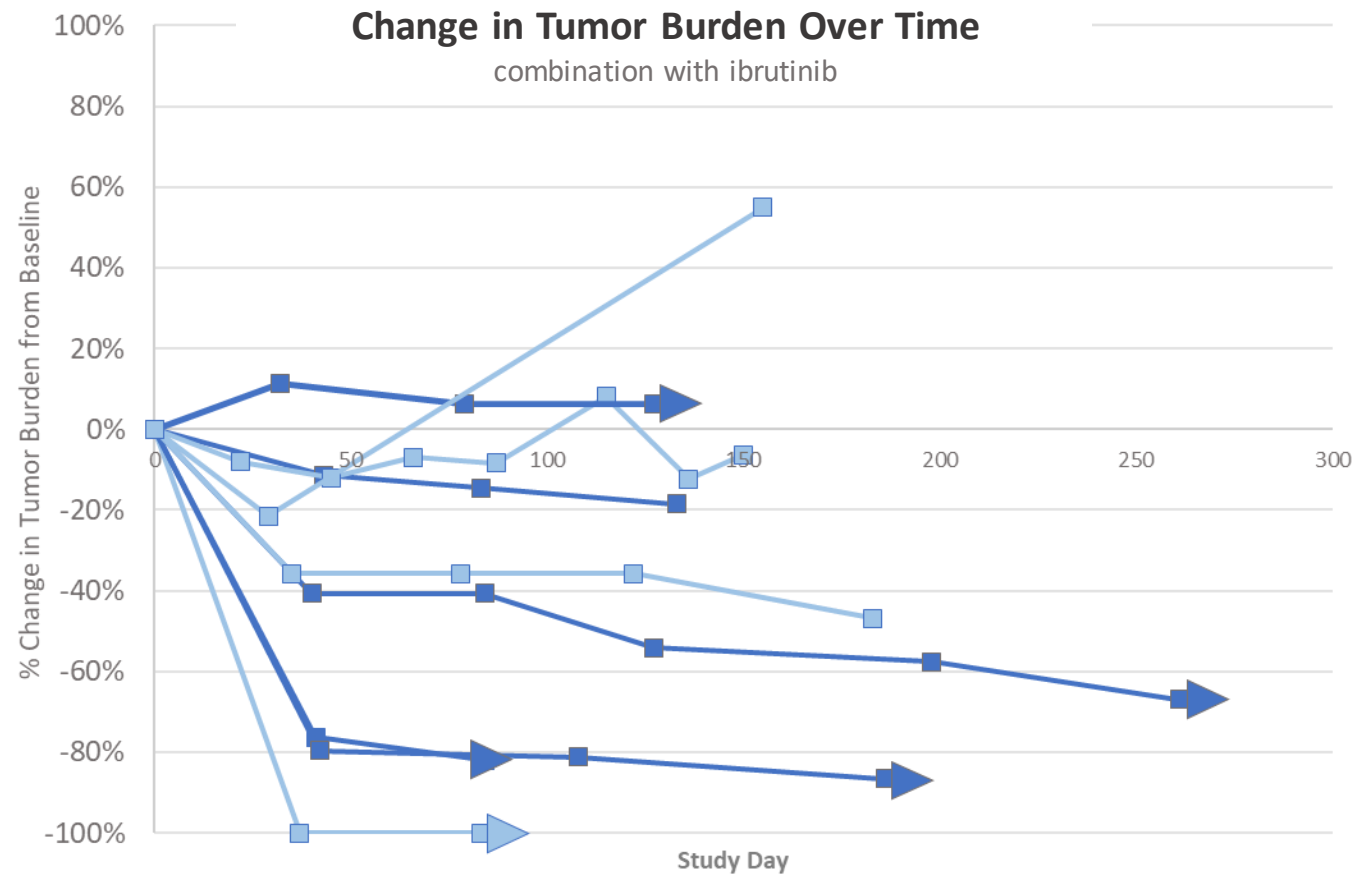
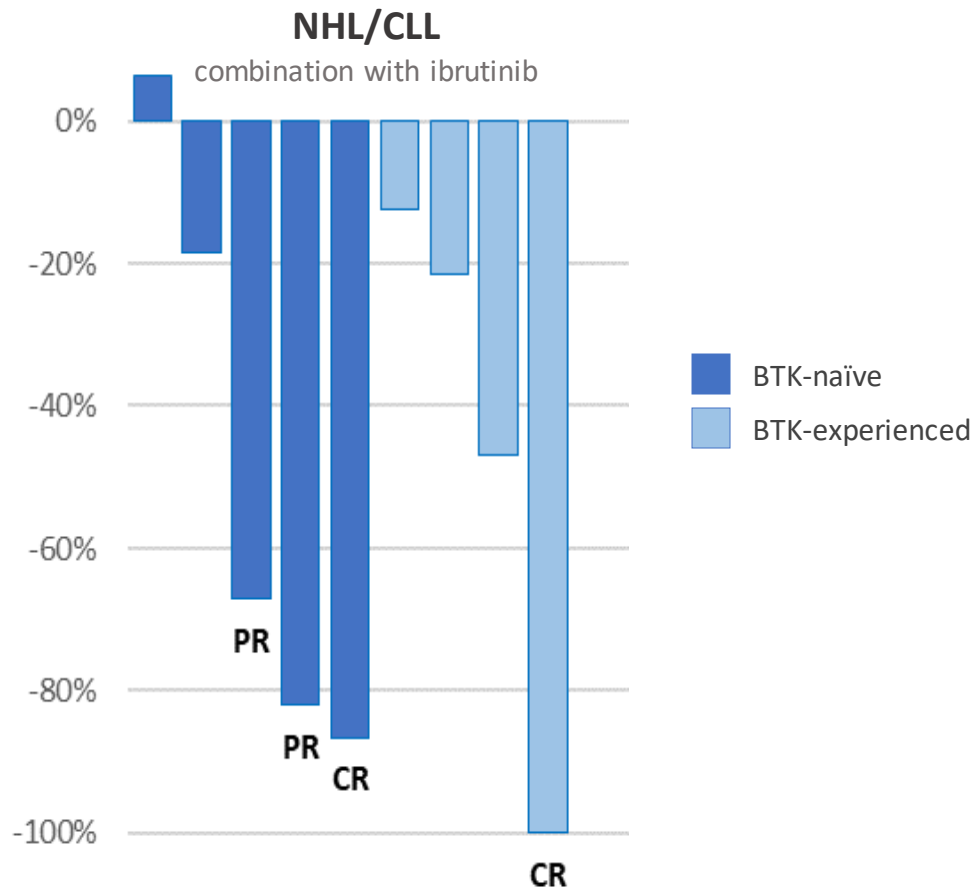
In preclinical testing, blocking both IRAK4 and BTK  
drove tumor reduction better than blocking either one alone



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

## *TakeAim Lymphoma Strategy for Combination*

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### **Monotherapy**

not being pursued in NHL

*because blocking both the TLR and BCR Pathways  
(with IRAK4i and BTKi, respectively)  
is better than blocking either one alone*

### ***Potential for front-line position***

### **Combination**

Enroll 20 Patients (2L/3L)

- R/R PCNSL combination with ibrutinib

*Collect clinical data in ~20 patients  
to facilitate pivotal design discussions with regulatory agencies,  
including potential for accelerated development*



End of Presentation

