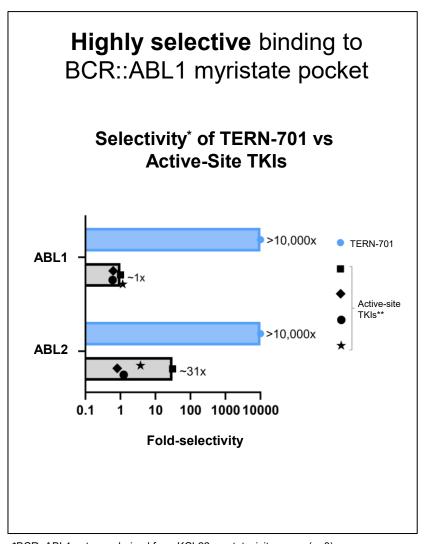
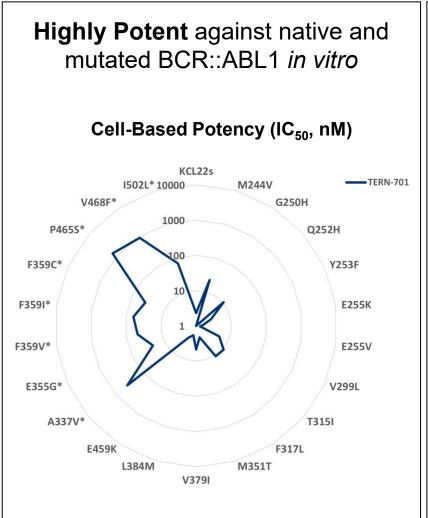


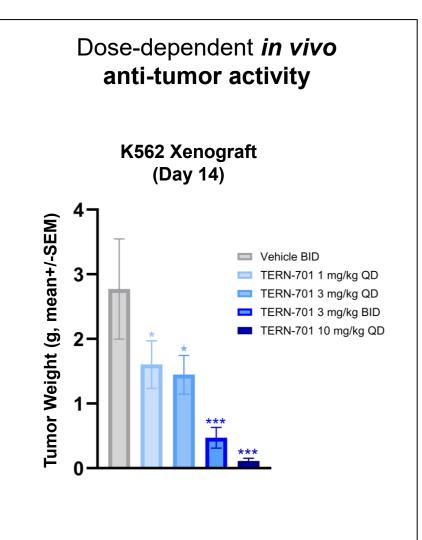
# CARDINAL: A Phase 1 Study of TERN-701, a Novel, Investigational Allosteric BCR::ABL1 Inhibitor for Patients with Previously Treated CML

<u>Elias Jabbour</u>, Timothy Hughes, Richard Van Etten, David Andorsky, Gonzalo Carreño, Philipp le Coutre, Omer Jamy, Pilar Giraldo, Dong-Wook Kim, Vivian Oehler, Andreas Hochhaus, Jorge Cortes, Michael Mauro, Tonya Marmon, Leanne Holes, Emil Kuriakose, Hagop Kantarjian, Delphine Rea

#### **TERN-701: Background**







\*BCR::ABL1 potency derived from KCL22-s cytotoxicity assay (n=3).

\*\*Active-site TKIs include imatinib, dasatinib, ponatinib & ELVN-001. ELVN-001 selectivity data derived from Enliven Company Overview, April 2024.

\*Denotes myristoyl mutations or mutations indicated in resistance to allosteric inhibition of BCR::ABL1. IC<sub>50</sub>=concentration of inhibitor required to bring about 50% inhibition/measurable effect.

\*p<0.05, \*\*\*p<0.001.

#### **TERN-701 Phase 1 CARDINAL Trial in CP-CML**

#### Part 1

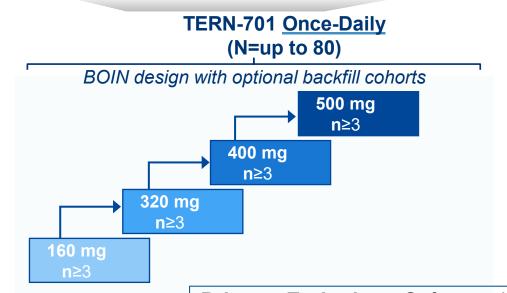
#### **Dose Escalation**

- Received ≥2 TKIs OR had treatment failure/suboptimal response to frontline 2G TKI
- Prior asciminib/ponatinib failure/intolerance allowed; myristate pocket resistance mutations excluded
- T315I and non-T315I mutations allowed

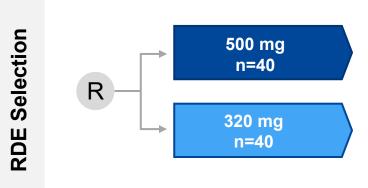
#### Part 2

#### **Dose Expansion**

- Treatment failure OR suboptimal response to ≥1 prior TKI
- Prior asciminib/ponatinib treatment failure/intolerance allowed; myristate pocket resistance mutations excluded
- Only non-T315I mutations allowed



TERN-701 Once-Daily (N≈80)



Data cutoff: September 13, 2025 **Primary Endpoints:** Safety and tolerability (including dose-limiting toxicities)

**Secondary Endpoints:** Efficacy (molecular responses) and pharmacokinetics

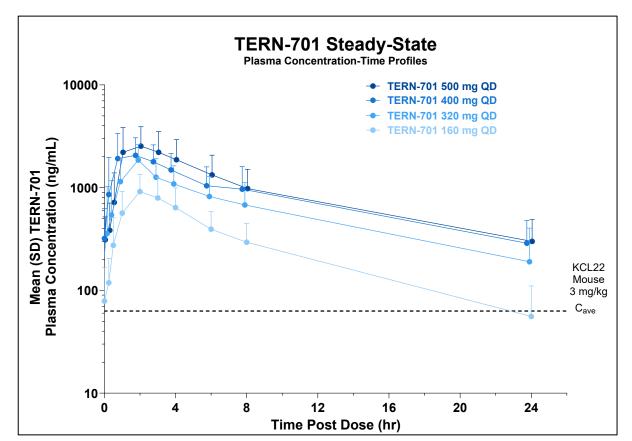
#### **TERN-701 Phase 1: Baseline Characteristics**

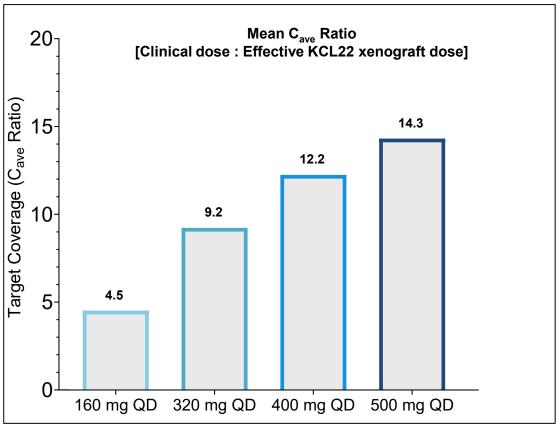
	All Pat	tients (N=63)		
Age, median (range), years	57 (29–86)			
Baseline BCR::ABL1 <sup>IS</sup> , n (%)				
>10%	2	8 (44%)		
>1% to 10%	3	3 (13%)		
>0.1% to 1%	1	6 (25%)		
≤0.1%	1	1 (18%)		
Discontinuation to last TKI, n (%)				
Lack of efficacy (per ELN 2020 criteria)	40 (64%)			
Lack of tolerability	18 (29%)			
Other		5 (8%)		
Median number of prior unique TKIs (range)	3 (1–6)			
≥3 prior, n (%)	3	8 (60%)		
Prior asciminib	2	4 (38%)		
Prior ponatinib	1	4 (22%)		
	T315I	6 (10%)		
BCR::ABL1 mutations, n (%)	F317L	2 (3%)		
	E255K	1 (2%)		

## **TERN-701 Phase 1: Patient Disposition**

	All patients (N=63)
Median duration of treatment, months (range)	6.1 (0.2–19)
Treatment ongoing	55 (87%)
Discontinued from treatment	8 (13%)
Treatment failure	4
Adverse events	1
Physician decision	1
Other (withdrew consent/lost to follow up)	2

#### **TERN-701 Phase 1: Pharmacokinetic Profile**





- Linear PK with approximately dose-proportional increase in exposure from 160–500 mg exceeding efficacious exposures in KCL-22 mouse model by up to 14-fold
- No clinically significant difference in exposure (AUC) when dosed fasted or with a high-fat meal

### **TERN-701 Phase 1: Overall Safety Summary**

Patient Incidence, n (%)	All patients (N=63)			
Treatment-Emergent Adverse Events (TEAEs)				
Overall, Any Grade	51 (81%)			
Overall, Grade 3 or Higher	20 (32%)			
Dose Limiting Toxicities	0 (0%)			
Leading to Treatment Discontinuation	1 (2%)			

No DLTs in dose escalation and MTD was not reached

## **TERN-701** Phase 1: AEs Regardless of Causality in ≥10% of Patients

Preferred Term, n (%)	160 mg QD n=10		320 mg QD n=21		400 mg QD n=13		500 mg QD n=19		All patients (N=63)	
11 ( /0)	All Grade	≥Grade 3	All Grade	≥Grade 3						
Hematologic										
Thrombocytopenia	2 (20%)	0	5 (24%)	3 (14%)	2 (15%)	2 (15%)	1 (5%)	0	10 (16%)	5 (8%)
Neutropenia	1 (10%)	0	4 (19%)	2 (10%)	2 (15%)	2 (15%)	1 (5%)	1 (5%)	8 (13%)	5 (8%)
Anemia	1 (10%)	0	2 (10%)	1 (5%)	1 (8%)	0	2 (11%)	0	6 (10%)	1 (2%)
Non-Hematologic										
Diarrhoea	1 (10%)	0	5 (24%)	0	3 (23%)	0	4 (21%)	0	13 (21%)	0
Headache	3 (30%)	0	6 (29%)	0	2 (15%)	0	1 (5%)	0	12 (19%)	0
Nausea	4 (40%)	0	4 (19%)	0	2 (15%)	0	2 (11%)	0	12 (19%)	0
Fatigue	1 (10%)	0	4 (19%)	0	2 (15%)	1 (8%)	2 (11%)	0	9 (14%)	1 (2%)
Abdominal pain	3 (30%)	1 (10%)	2 (10%)	0	1 (8%)	0	2 (11%)	0	8 (13%)	1 (2%)
Myalgia	0	0	4 (19%)	0	3 (23%)	0	1 (5%)	0	8 (13%)	0
Back pain	1 (10%)	0	2 (10%)	0	1 (8%)	0	3 (16%)	0	7 (11%)	0
Rashes	2 (20%)	0	1 (5%)	1 (5%)	2 (15%)	0	2 (11%)	0	7 (11%)	1 (2%)
ALT increased	1 (10%)	0	2 (10%)	0	0	0	3 (16%)	0	6 (10%)	0
Dizziness	1 (10%)	0	4 (19%)	0	1 (8%)	0	0	0	6 (10%)	0

- No clinically significant changes in blood pressure were reported
- No clinical pancreatitis or symptomatic lipase elevations of any grade

AEs=adverse events; QD=once daily. Jabbour E., et al. Oral presentation at: 67th ASH Annual Meeting and Exposition; December 6–9, 2025; Orlando, FL. Presentation #901.

## **TERN-701 Phase 1: Grade ≥3 AEs Regardless of Causality (>1 patient)**

Preferred Term, n (%)	160 mg QD n=10	320 mg QD n=21	400 mg QD n=13	500 mg QD n=19	All patients (N=63)
Thrombocytopenia	0	3 (14%)	2 (15%)	0	5 (8%)
Neutropenia	0	2 (10%)	2 (15%)	1 (5%)	5 (8%)
Leukopenia	0	1 (5%)	1 (8%)	0	2 (3%)

- Low rate of ≥G3 TEAEs (all <10%)</li>
- One patient with G3 peripheral ischemia (foot) unrelated to treatment
  - Patient had a 5-year history of peripheral vascular disease with chronic ponatinib treatment
  - AE occurred ~2 months after ponatinib discontinuation

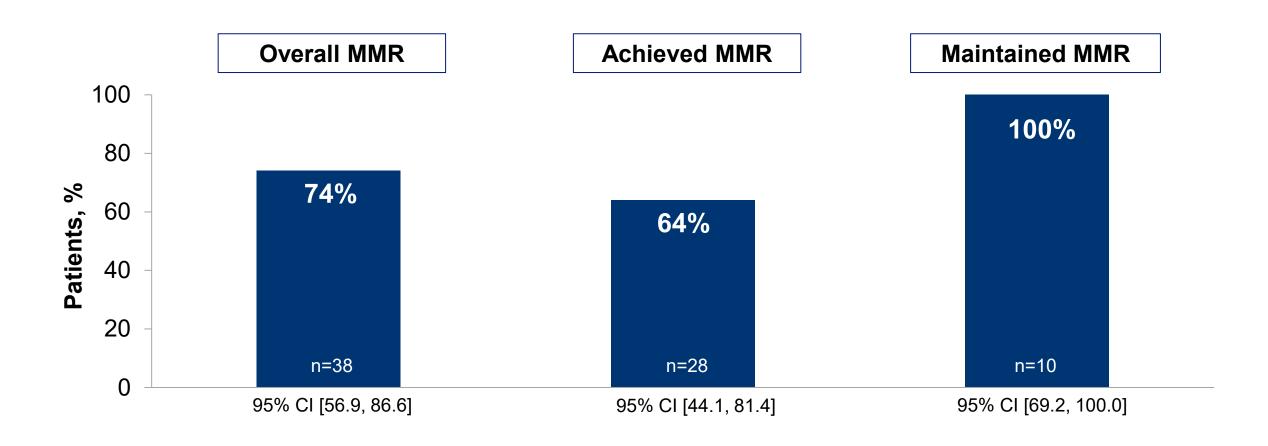
#### **TERN-701 Phase 1: Efficacy Evaluable Criteria**

- Efficacy evaluable cohort includes patients without T315I or atypical transcripts
- As of September 13, 2025, 38 patients were evaluable for MMR by 24 weeks assessed centrally

#### **Efficacy Evaluable Criteria**

- Received TERN-701 for at least 24 weeks, OR
- Achieved MMR or better prior to 24 weeks (if no MMR at baseline), OR
- Maintained MMR or better for ≥24 weeks (if in MMR at baseline), OR
- Discontinued treatment for any reason prior to 24 weeks

#### TERN-701 Phase 1: MMR Achievement Rates by Week 24 (N=38)



### TERN-701 Phase 1: Categorical MR Shift from Baseline by 24 Weeks

		Baseline BCR::ABL1 <sup>IS</sup> level						
	N=38	<b>MR5</b> ≤0.001% (n=0)	MR4.5 >0.001 to 0.0032% (n=1)	MR4 >0.0032 to 0.01% (n=3)	MR3 (MMR) >0.01 to 0.1% (n=6)	MR2 >0.1 to 1% (n=11)	<b>MR1</b> >1 to 10% (n=6)	>10% (n=11)
	<b>MR5</b> ≤0.001%		1	2	1	1	1	1
Post-treatment BCR::ABL1 <sup>IS</sup>	<b>MR4.5</b> >0.001 to 0.0032%			1		3		
CR::A	<b>MR4</b> >0.0032 to 0.01%				1	1	1	
nent B	MR3 (MMR) >0.01 to 0.1%				4	6		4
treatn	<b>MR2</b> >0.1 to 1%						3	
Post-	<b>MR1</b> >1 to 10%						1	1
	>10%							5

Compared with baseline, BCR::ABL115 level category by week 24: Stable Lack of Efficacy Improvement in MR category

### TERN-701 Phase 1: 64% MMR Achievement by 24 Weeks

			Baseline BCR::ABL1 <sup>IS</sup> level							
	N=38	<b>MR5</b> ≤0.001% (n=0)	MR4.5 >0.001 to 0.0032% (n=1)	MR4 >0.0032 to 0.01% (n=3)	MR3 (MMR) >0.01 to 0.1% (n=6)	MR2 >0.1 to 1% (n=11)	<b>MR1</b> >1 to 10% (n=6)	>10% (n=11)		
	<b>MR5</b> ≤0.001%		1	2	1	1	1	1	MMR	
BL1IS	<b>MR4.5</b> >0.001 to 0.0032%			1		3			rate	
Post-treatment BCR::ABL1 <sup>IS</sup>	MR4 >0.0032 to 0.01%				1	1	1		64%(18/28)	
nent B	MR3 (MMR) >0.01 to 0.1%				4	6		4		
treatn	<b>MR2</b> >0.1 to 1%						3			
Post-	<b>MR1</b> >1 to 10%						1	1		
	>10%							5		

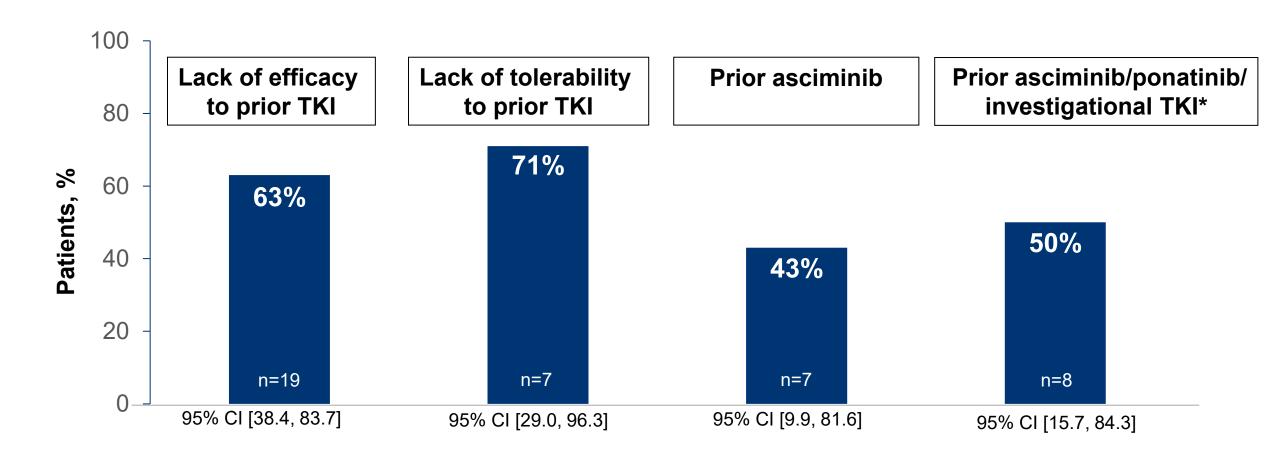
Compared with baseline, BCR::ABL1IS level category by week 24: Stable Lack of Efficacy Improvement in MR category

# **TERN-701 Phase 1: MMR Achievement Rate in Patients with High Baseline Transcript Levels**

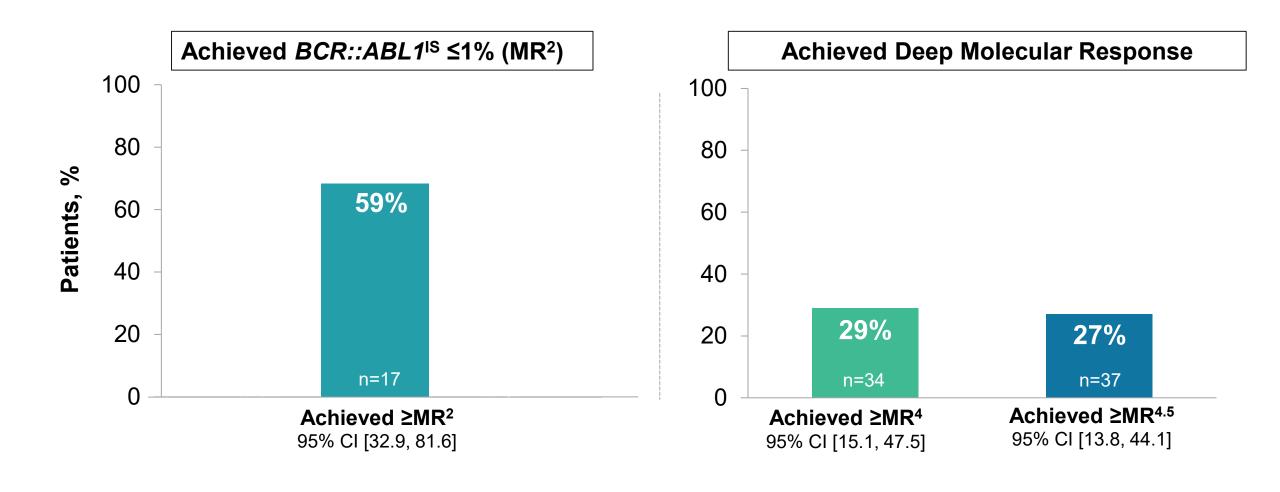
			Baseline BCR::ABL1 <sup>IS</sup> level								
	N=38	<b>MR5</b> ≤0.001% (n=0)	MR4.5 >0.001 to 0.0032% (n=1)	MR4 >0.0032 to 0.01% (n=3)	MR3 (MMR) >0.01 to 0.1% (n=6)	MR2 >0.1 to 1% (n=11)	MR1 >1 to 10% (n=6)	>10% (n=11)			
	<b>MR5</b> ≤0.001%		1	2	1	1	1	1	MMR rate in pts		
BL1 <sup>IS</sup>	MR4.5 >0.001 to 0.0032%			1		3			with baseline transcripts >10% 45% (5/11)		
Post-treatment <i>BCR::ABL1</i> <sup>IS</sup>	MR4 >0.0032 to 0.01%				1	1	1				
nent B	MR3 (MMR) >0.01 to 0.1%				4	6		4			
treatn	<b>MR2</b> >0.1 to 1%						3				
Post-	MR1 >1 to 10%						1	1			
	>10%							5			

Compared with baseline, BCR::ABL1<sup>IS</sup> level category by week 24: Stable Lack of Efficacy Improvement in MR category

# **TERN-701 Phase 1: MMR Achievement by 24 Weeks Across Key Patient Subgroups**



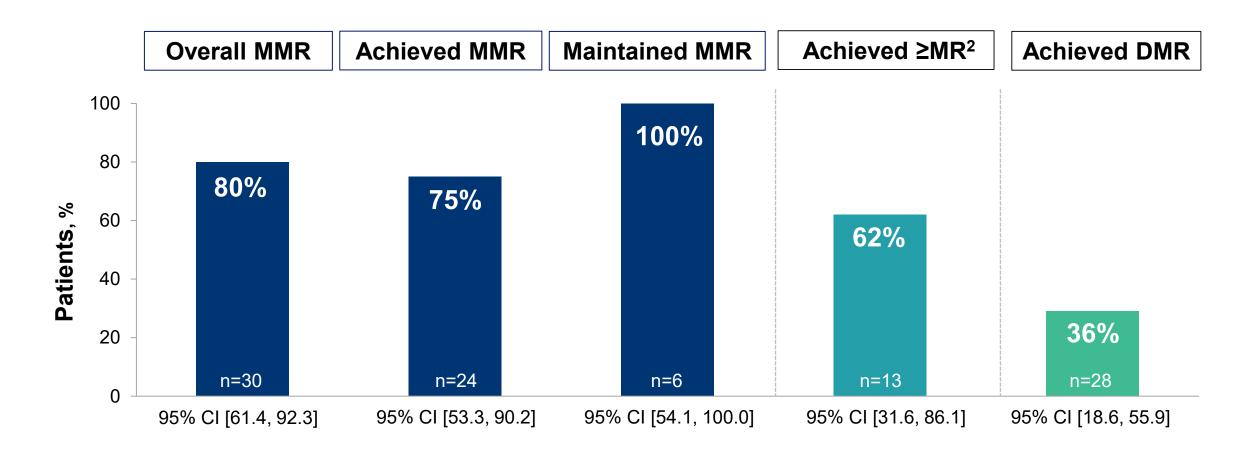
### TERN-701 Phase 1: MR<sup>2</sup> and DMR Achievement by 24 Weeks



#### **TERN-701 Phase 1: BL Demographics at RP2D Dose Range (≥320 mg QD)**

	All Patien	ts (N=53)			
Age, median (range), years	57 (30–82)				
Baseline BCR::ABL1 <sup>IS</sup> , n (%)					
>10%	25 (47%)				
>1% to 10%	5 (9	9%)			
>0.1% to 1%	16 (3	0%)			
≤0.1%	7 (13%)				
Discontinuation to last TKI, n (%)					
Lack of efficacy (per ELN 2020)	36 (68%)				
Lack of tolerability	12 (23%)				
Other	5 (9	9%)			
Median number of prior unique TKIs (range)	3 (1	3 (1–6)			
≥3 prior, n (%)	32 (6	0%)			
Prior ponatinib	11 (2	1%)			
Prior asciminib	20 (38%)				
	T315I	5 (9%)			
BCR::ABL1 mutations, n (%)	F317L	2 (4%)			
	E255K 1 (2%)				

# TERN-701 Phase 1: Response Rates at RP2D Dose Range (≥320 mg QD) by 24 Weeks



#### **TERN-701 Phase 1: Conclusions**

- Favorable safety and tolerability in heavily pre-treated (3L+) CML-CP patients
  - No DLTs/MTD identified
  - Majority of TEAEs low grade; G3 AEs <10%</li>
- Encouraging efficacy in refractory non-T315Im CML including prior asciminib and ponatinib treatment failures
  - 64% MMR achievement with 29% DMR achievement by 24 weeks at all doses
  - 75% MMR achievement with 36% DMR achievement by 24 weeks at RP2D dose range (≥320 mg QD)
- Doses of 320 mg and 500 mg QD selected as recommended doses for further evaluation in the randomized dose expansion (currently enrolling)

### **Acknowledgment**

We thank all study participants and their families, the study investigators, the staff at the participating study sites, and the study steering committee