

# **Ascentage Pharma Group**

**Advancing Therapies That  
Restore Apoptosis**

**March, 2022**



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# Innovative and Proprietary Platform

## Delivering Potentially First and/or Best-in-Class Drugs

### Breakthrough science

**178**  
issued patents

**600+**  
pending applications

**100+**  
publications

### Dedicated team

**1**  
vision: building a global biopharmaceutical company

**20+**  
years commitment of executive team

**600+**  
employees

### Strong pipeline

**1**  
NDA Approval

**10+**  
indications

**12**  
novel compounds

**50+**  
clinical trials

**30+**  
INDs

### Global development

Integrated organization in  
**China, United States, Europe and Australia**





# Major Achievements in 2021



## NDA approval of v (HQP1351)

- The **first and the only** approved third generation BCR-ABL inhibitor in China
- Received support from **National Major New Drug Discovery and Manufacturing Program**
- Granted the “**Priority Review**” and a “**Breakthrough Therapy Designation**” by CDE
- Granted **ODDs and a Fast-Track Designation**



## Clinical breakthrough for apoptosis asset APG-2575

- **Registrational pivotal study of APG-2575 for treatment of patients with CLL/SLL initiated in China and the first patient has been dosed**
- **18 global phase Ib/II studies**



## Break the record of Chinese biotech companies

- Granted 15 **ODDs** by FDA and 1 **ODD** by EC
- Granted 2 **Fast-Track Designation**
- Granted 2 **Rare Pediatric Disease Designations**



## Data releases in International Academic Conference

- **HQP1351** : The positive data for patients with long-term follow-up was presented and it' s the fourth consecutive time where Olveremabatinib was selected for oral presentation at the ASH.
- **APG-2575**: The promising data from the phase I Study in China and US was released in ASH and ASCO. The data release was selected for oral presentation at the ASCO
- **APG-115** : The data from the phase II Study combination with Pembrolizumab was selected for oral presentation at the ASCO



## 6 clinical and commercial collaborations

- with AstraZeneca, MSD, Pfizer, and Innovent, etc.





# Expected Milestones in 2022



**NDA submission:** We expect to submit a full-approval NDA application of Olverembatinib for the treatment of CML patients who are resistant/intolerant to first and second generation TKIs



We will continue to promote the sales of Olverembatinib and actively promote the Olverembatinib to enter in the National Reimbursement Drug List

## Key asset clinical development and data release expectation

### HQP1351

- A phase Ib study for treatment of patients with CML and Ph + ALL is ongoing in the US. We will continue to consult with the FDA on global pivotal phase II registration study.
- Release data of GIST

### APG-2575

- Release the partial data of APG-2575 in combination with the BTK inhibitor in 2022
- Release clinical data of AML in 2022Q4 or 2023Q1
- Consult with FDA and CDE on proposed pivotal phase II studies.
- Complete the enrollment for pivotal phase II trial of APG-2575 for the treatment of patients with r/r CLL/SLL in China in 1H 2023

### APG-115

- Release the data of APG-115 monotherapy and in combination with azacytidine/cytarabine in AML/MDS in 2022
- Consult with FDA on proposed pivotal phase II study

### APG-2449

- Release the data of Phase I study and consult with CDE on proposed pivotal phase II study

### APG-5918

- Submit IND in 2022 Q2





# Olverembatinib: the only approved and commercialized third generation BCR-ABL inhibitor in China

耐立克®

奥雷巴替尼 olverembatinib

- The first commercialized product of **Ascentage Pharma**
- The **only** approved and commercialized third generation BCR-ABL inhibitor in China

Received  
NDA Approval



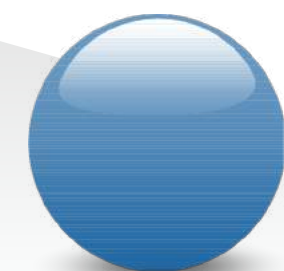
2021.11

The first  
prescription



2021.12

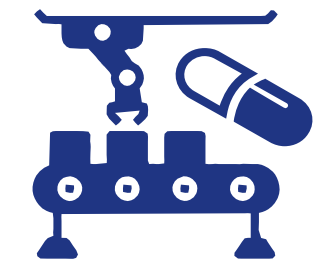
Entered into the  
list of the first  
commercial insurance



2021.12



Co-promote with Innovent Biologics  
in China  
**Innovent**  
信达生物制药



Accelerate the market coverage



国药控股  
SINOPHARM GROUP

SPH 上药控股  
SHAPHAR

华润医药  
CR PHARMA

**National  
coverage scope**



**80%** CML Market  
in China



**~800** hospitals



Commercial  
insurances in **10** cities

A commercialization team of **100** with rich  
experience in hematologic malignancies field

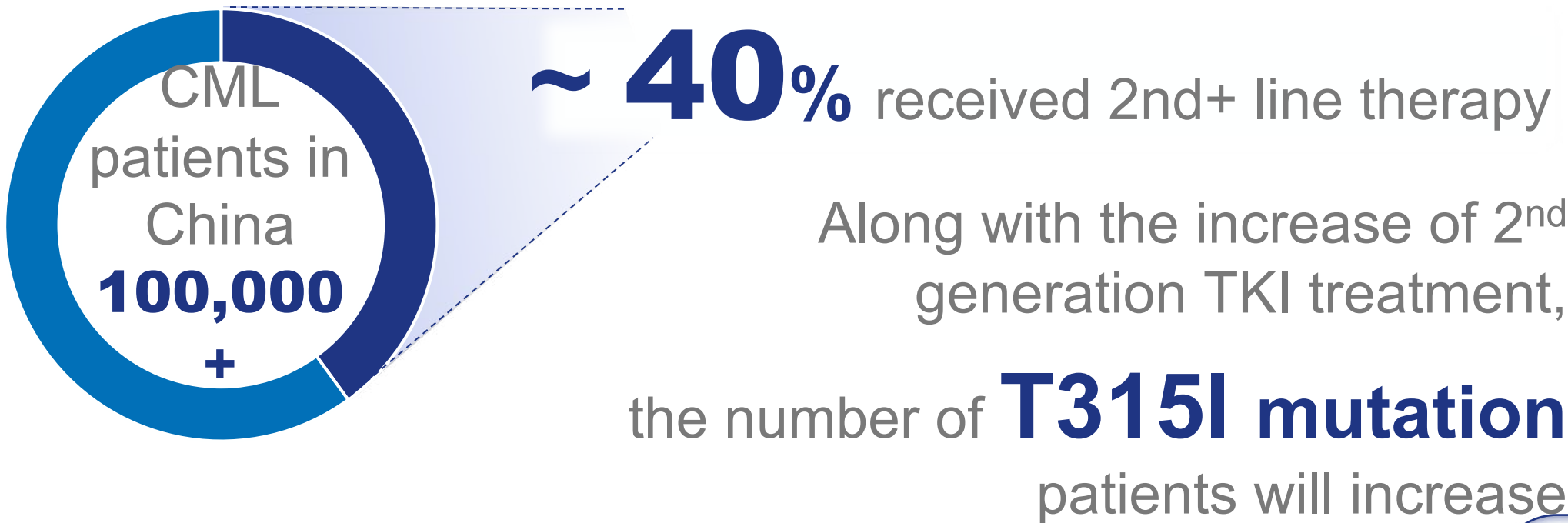


亞盛醫藥  
Ascentage Pharma

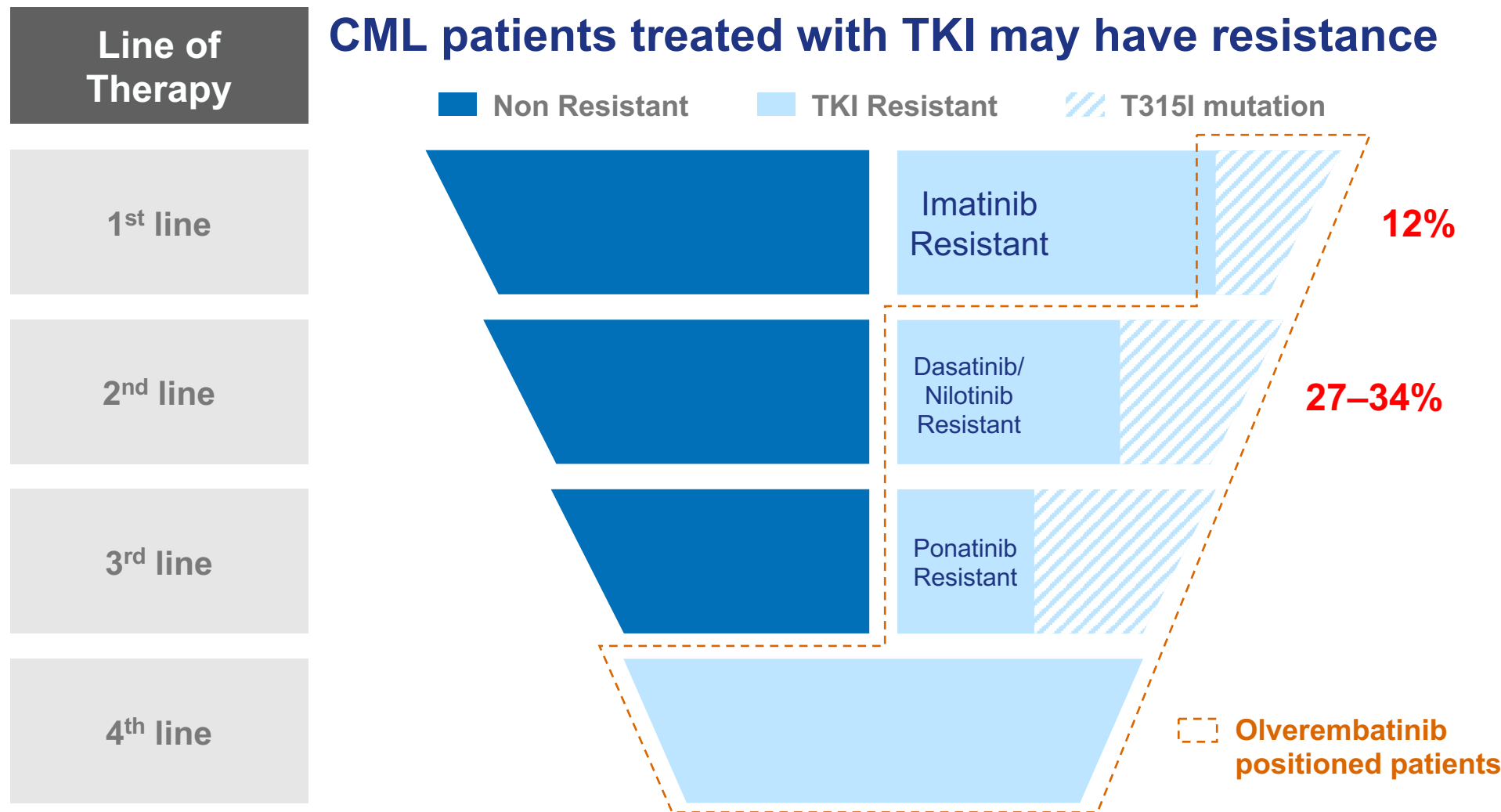


# Commercialization

## Market potential - Maximize market value of Olverembatinib



- Annual Sale of Global CML Market is \$6 Bn
- Annual sale of 2 2<sup>nd</sup> generation TKI (Dasatinib, Nilotinib) in 2020, 2021 > \$4 Bn



For illustrative purposes of patient size

- T315I mutation was the most frequent mutation detected in imatinib-, nilotinib-, and dasatinib resistant cases, accounting for 12.3%, 27.3%, and 34.1%<sup>1</sup>

### Strategic Alliance



- Formed **strategic alliance relationships** with Sinopharma Group, Shanghai Pharmaceuticals Holding Co., Ltd and China Resources Pharmaceutical Group Limited.
- **Leveraging the sales distribution networks of various companies**, we delivered the drugs across China as soon as the supply of Olverembatinib was production released.

### Sales Distribution Collaboration

• Source:1. Chin J Hematol, 2020,41(06): 469-476



# Multiple Ongoing Strategic Alliances





# Constant Improvement in Cash Flow



The first  
commercialized  
product and realized  
revenue



Issuance and  
placement of  
additional shares  
and raised

**1.3Bn** rmb



Cash&  
Cash Equivalent

**1.74Bn** rmb

Year-on-year  
Increase

**70.3%** ↑



Revenue

**27.91M** rmb

Year-on-year  
Increase

**123.2%** ↑

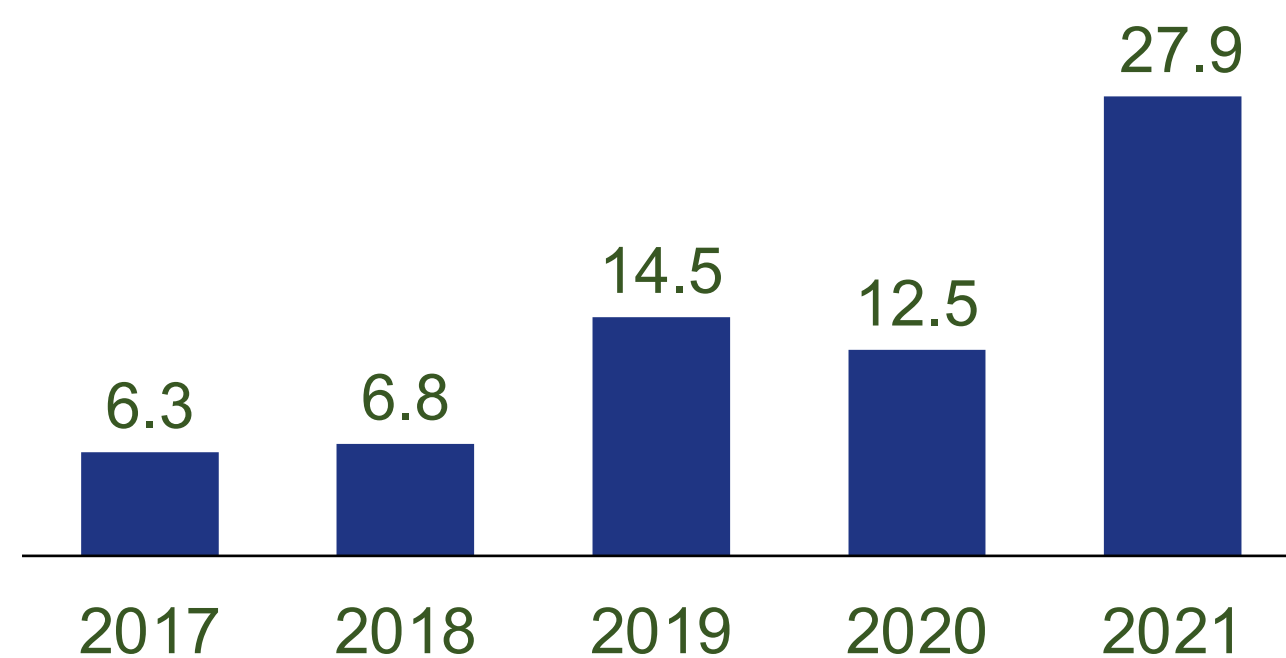




# Key Financial Highlights

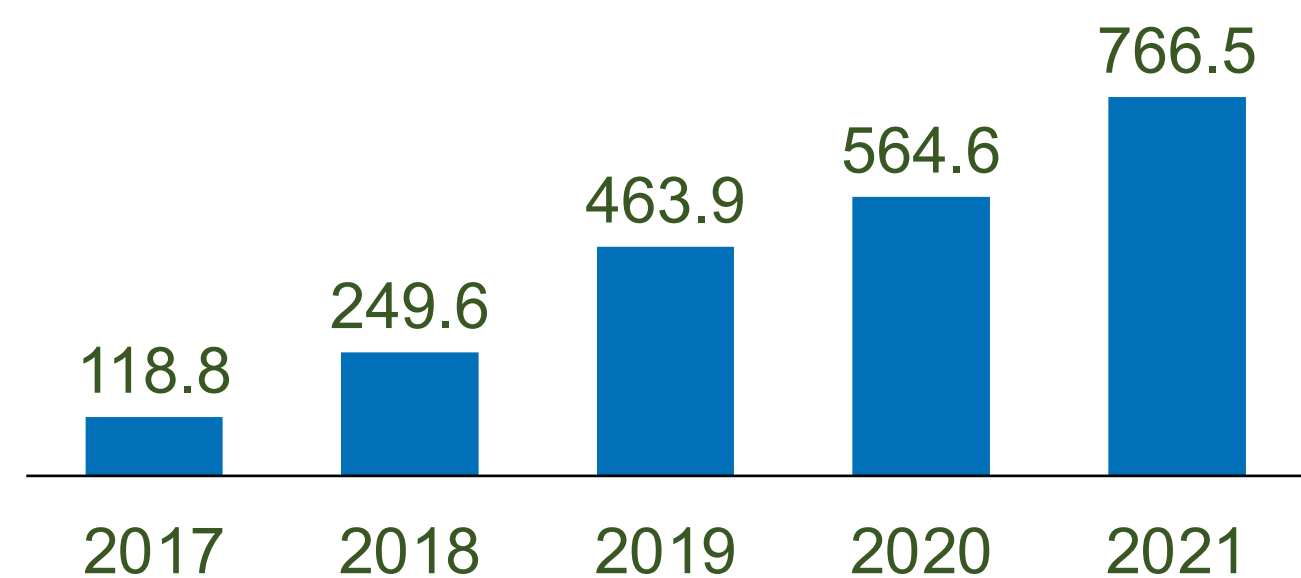
## Revenue<sup>1</sup>

(RMB mm)



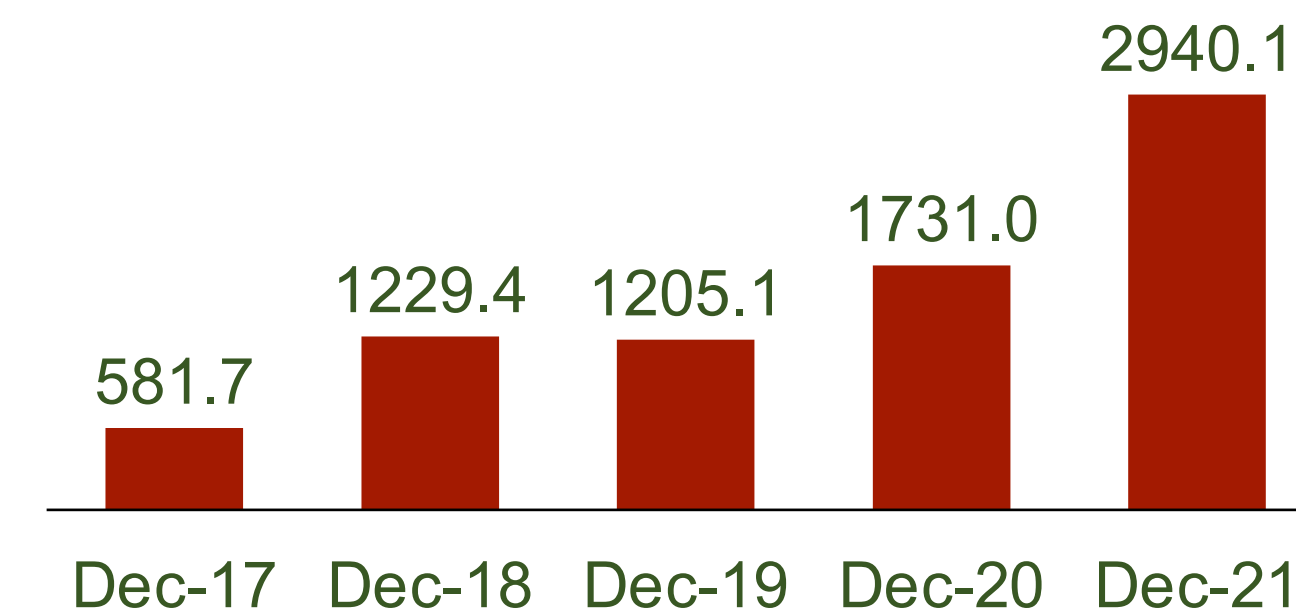
## R&D Expense

(RMB mm)



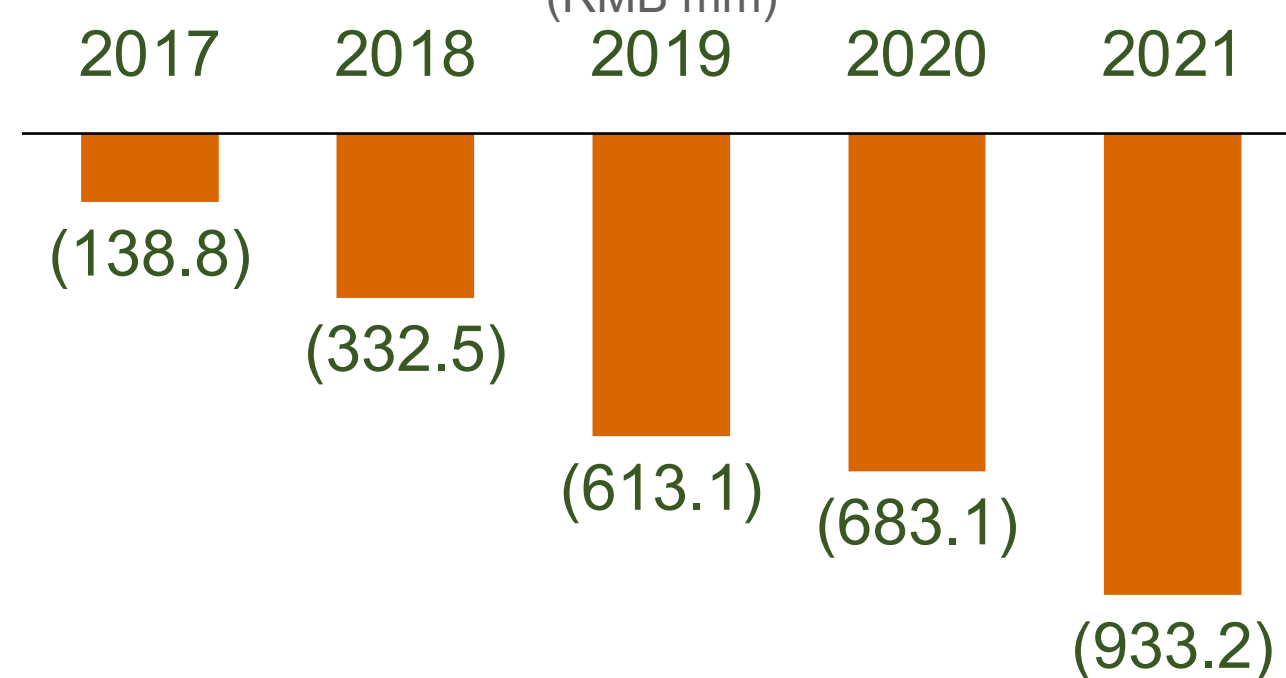
## Total Assets

(RMB mm)



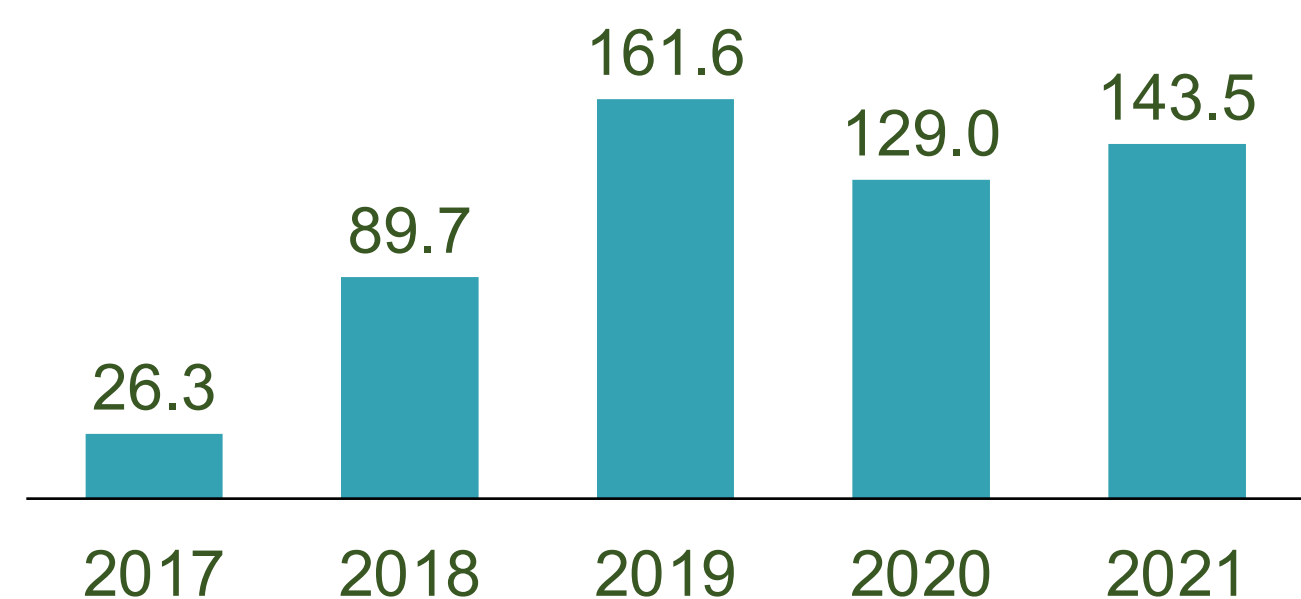
## EBIT<sup>2</sup>

(RMB mm)



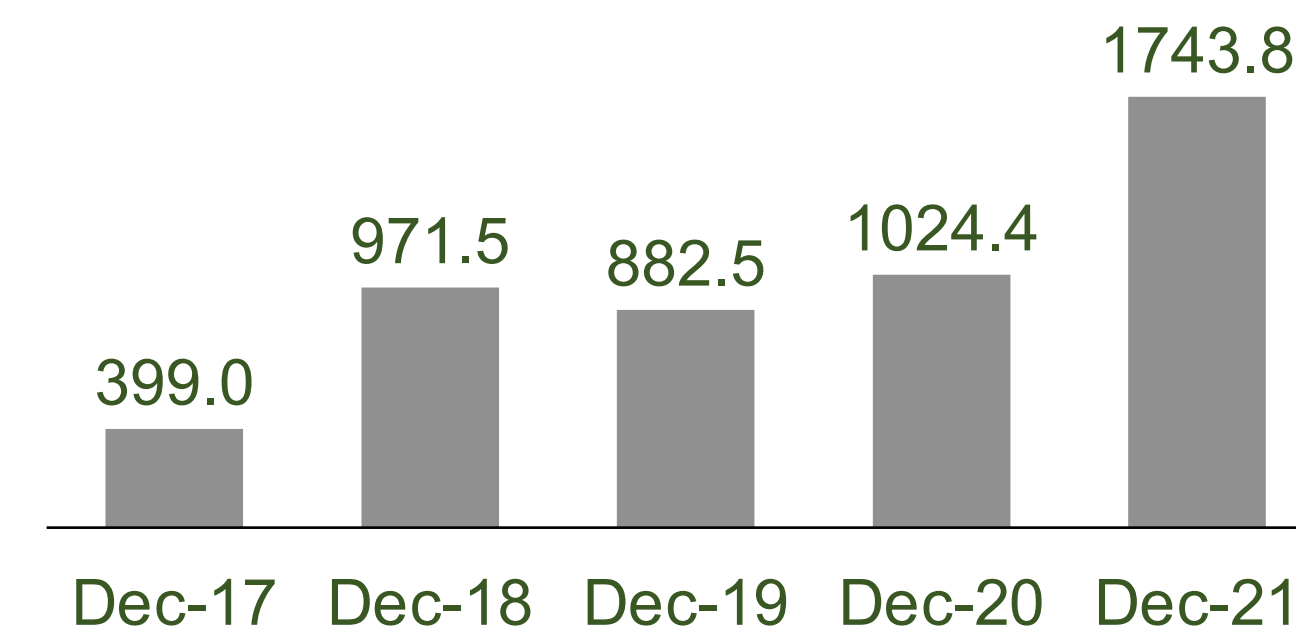
## OPEX

(RMB mm)



## Cash & Equivalents<sup>3</sup>

(RMB mm)



1) Revenue from provision of research and development services, and compounds library and intellectual property license fee income; 2) EBIT = Gross Profit – R&D Expense – Other OPEX 3) Cash & Equivalents include cash and bank balances, and other financial assets, which represent mainly investment in short-term financial products



# Our Experienced Executives Team



**Dajun Yang, M.D., Ph.D.**  
Co-FOUNDER  
CHAIRMAN &  
CHIEF EXECUTIVE OFFICER  
*GEORGETOWN*  
UNIVERSITY





**Yifan Zhai, M.D., Ph.D.**  
CHIEF MEDICAL OFFICER







**Gang Zhu.**  
CHIEF COMMERCIAL OFFICER






**Yiqing Chen**  
CHIEF FINANCIAL OFFICER







**Shaomeng Wang Ph.D.**  
Co-Founder  
Professor in Medicine,  
University of Michigan  
Former Editor-in-chief,  
Journal of Medicinal  
Chemistry





**Thomas Knapp**  
SVP, GENERAL COUNSEL







**Jeff Kmetz**  
CHIEF BUSINESS OFFICER



































**Chongdong Fu, Ph.D.**  
CMC HEAD






# Rich Pipeline With Significant Global Opportunities

Product	Target	Indications	Preclinical	Ph I	Ph II	Registration Trial	NDA Approval	Trial Region	Rights Regions
HQP1351	BCR-ABL/KIT	Resistant CML						   	
		Resistant CML · Ph+ ALL							
		GIST							
		Ph+ ALL							
APG-2575	Bcl-2 Selective	r/r CLL/SLL							
		r/r CLL/SLL							
		WM							
		AML							
		MDS							
		MM							
		T-PLL							
		MCL							
		ER+/HER2- BC and solid tumors							
APG-115	MDM2-p53	Melanoma and Solid Tumors(IO Combo)						  	
		ACC							
		AML,MDS							
APG-1387	IAP/XIAP	Solid tumors(IO Combo)						  	
		PDAC+ Chemo							
		CHB							
APG-1252	Bcl-2/Bcl-xL	NSCLC+ TKI						  	
		SCLC+ Chemo							
		NET							
APG-2449	FAK/ALK/ROS1	NSCLC/ Solid tumors							
APG-5918	EED Selective	Tumors/Hemoglobinopathy							
APG-265	PROTACs MDM2	Tumors							
UBX1967/1325	Bcl Family	DME							

◆ POC    ◆ POC in progress





# Global Clinical Footprint: 50+ Studies Globally



**APG-2575**

CLL, MM, WM, AML  
MDS, T-PLL & other  
Hematologic malignancies;  
ER+ breast Ca and solid  
tumors

**APG-115**

AML, MDS, T-PLL  
Melanoma, MPNST, ACC  
and other solid tumors

**APG-1387**

Solid tumors

**HQP1351**

TKI resistant CML and  
Ph+ ALL

**APG-1252**

NSCLC, SCLC, MF



**APG-2575**

CLL/SLL



**HQP1351**

TKI resistant CML,  
Ph+ALL, GIST

**APG-2575**

Hematologic malignancies:  
CLL, AML, WM · MM, T-  
PLL and solid tumors

**APG-115**

AML, MDS, T-PLL,  
Sarcoma and solid tumors

**APG-1387**

Pancreatic, solid tumors,  
HBV

**APG-1252**

NSCLC, NET

**APG-2449**

NSCLC

**HQP8361**

Tumors with cMET+



**APG-2575**

CLL, WM, AML  
Hematologic malignancies

**APG-115**

Advanced solid tumors

**APG-1387**

Advanced solid tumors

**APG-1252**

NSCLC

**HQP1351**

TKI resistant CML and  
Ph+ALL

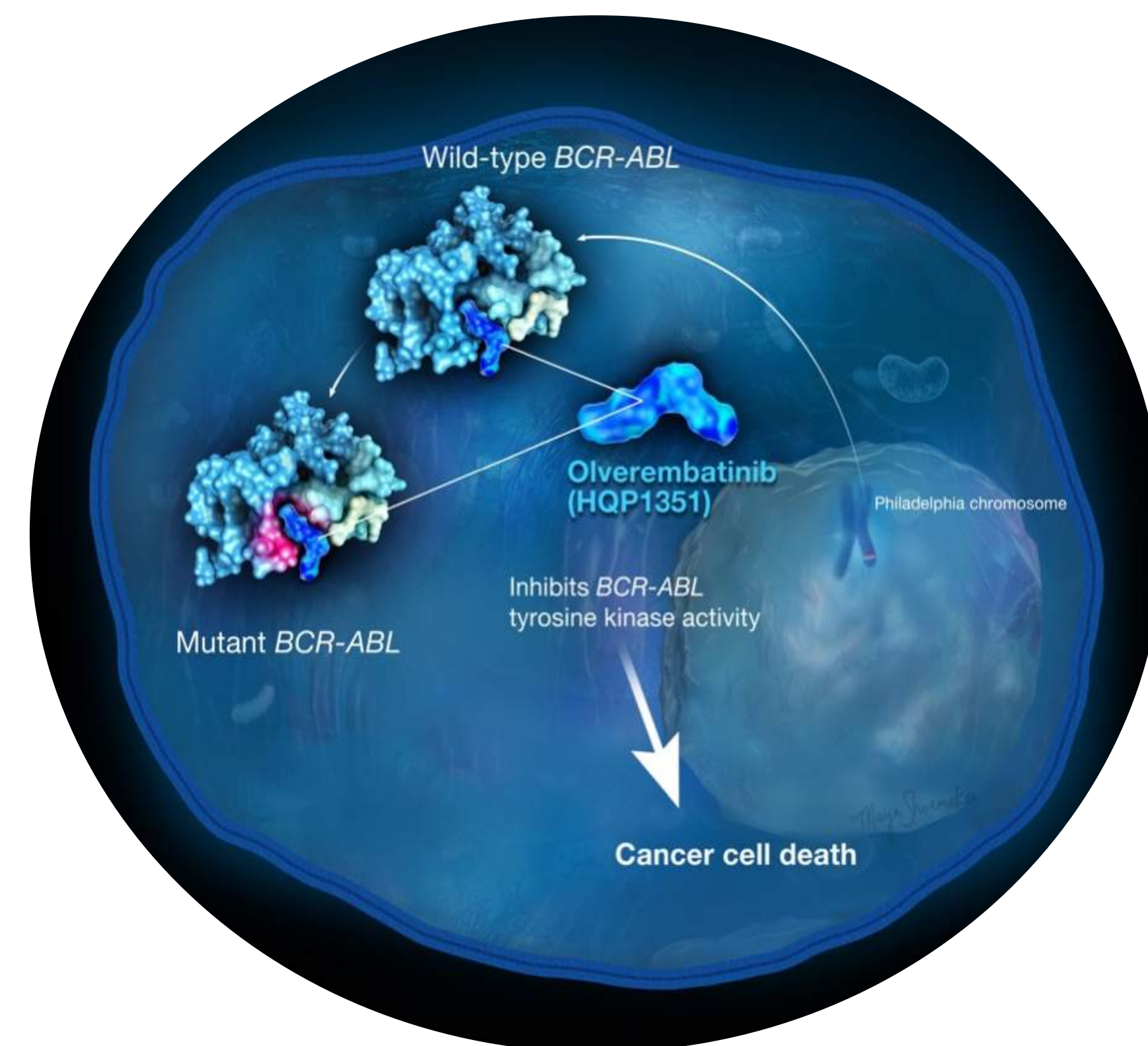


# HQP1351 Olverembatinib Overview

The only approved and commercialized third generation BCR-ABL inhibitor in China, targeting BCR-ABL mutants, including those with the T315I mutation

Received support from National Major New Drug Discovery and Manufacturing Program

Best-in-class drug potential globally



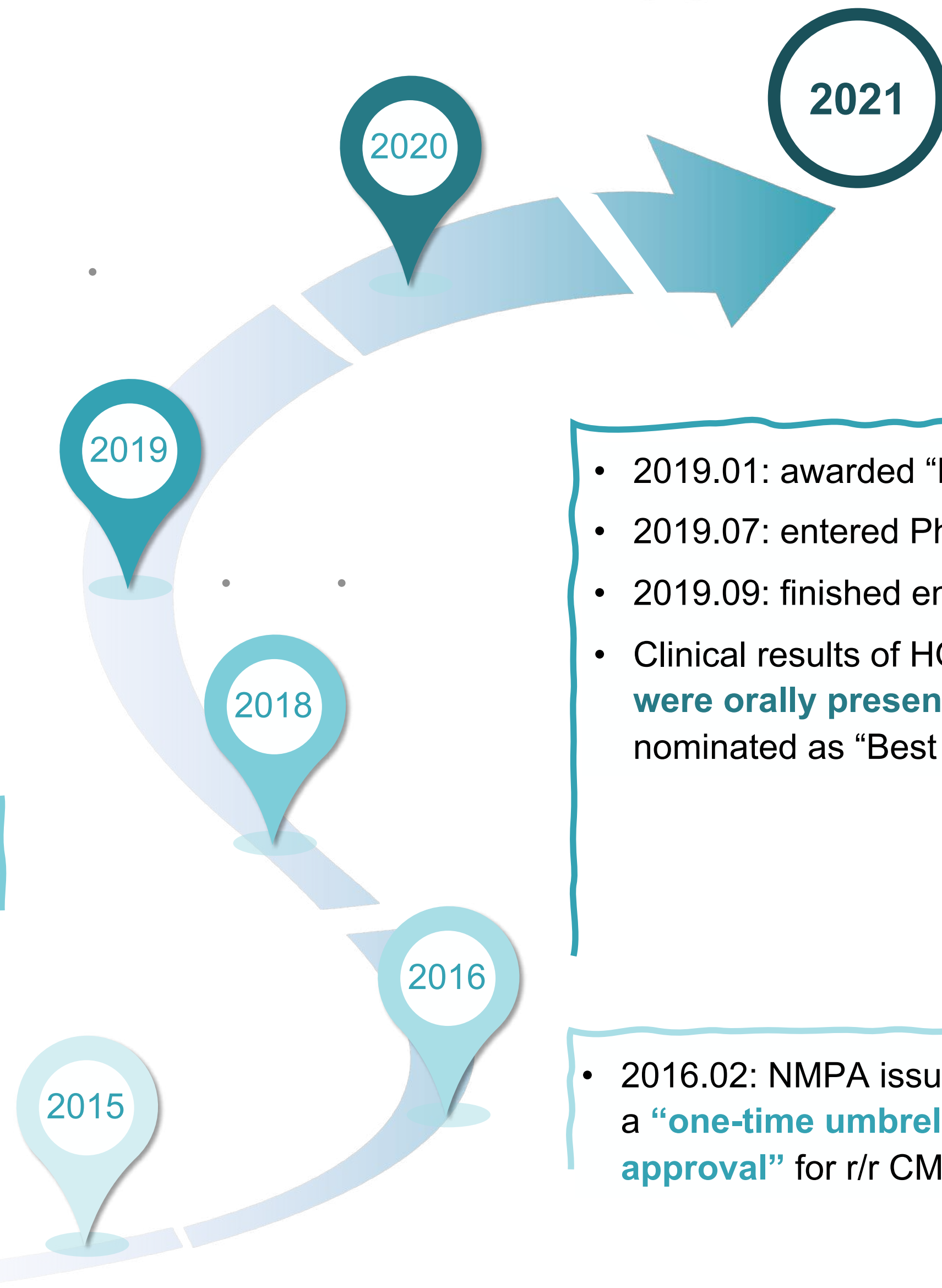


# Development Milestone: From IND Clearance to NDA Approval in 4 Years

- 2020.04: granted **Orphan Drug Designation(CML)** and **Fast Track Designation** by FDA
- 2020.06: submitted **NDA** to the CDE for T315I-mutant CP-CML and AP-CML in China
- 2020.10: HQP1351 has granted **“Priority Review”**

- 2018.07: held a pivotal Phase II clinical trial kick-off meeting with PI

- 2015.04: submitted an IND TKI resistant CML in China



- 2021.03: received **“Breakthrough Therapy Designation”**
- 2021.11: received **NDA Approval**
- 2021.11: granted **Orphan Drug Designation (CML)** by **European Commission**
- 2021.12 granted **Orphan Drug Designation (AML)**
- 2022.03: granted **Orphan Drug Designation (ALL)**

- 2019.01: awarded “National Major Innovative Drug Project”
- 2019.07: entered Phase Ib clinical study for TKI rCML in US
- 2019.09: finished enrollment of 2 pivotal Phase II trials in China
- Clinical results of HQP1351 in CP|AP TKI resistant / intolerant CML **were orally presented at ASH 2018, 2019 , 2020 and 2021** , nominated as “Best of ASH” in 2019



- 2016.02: NMPA issued a **“one-time umbrella approval”** for r/r CML

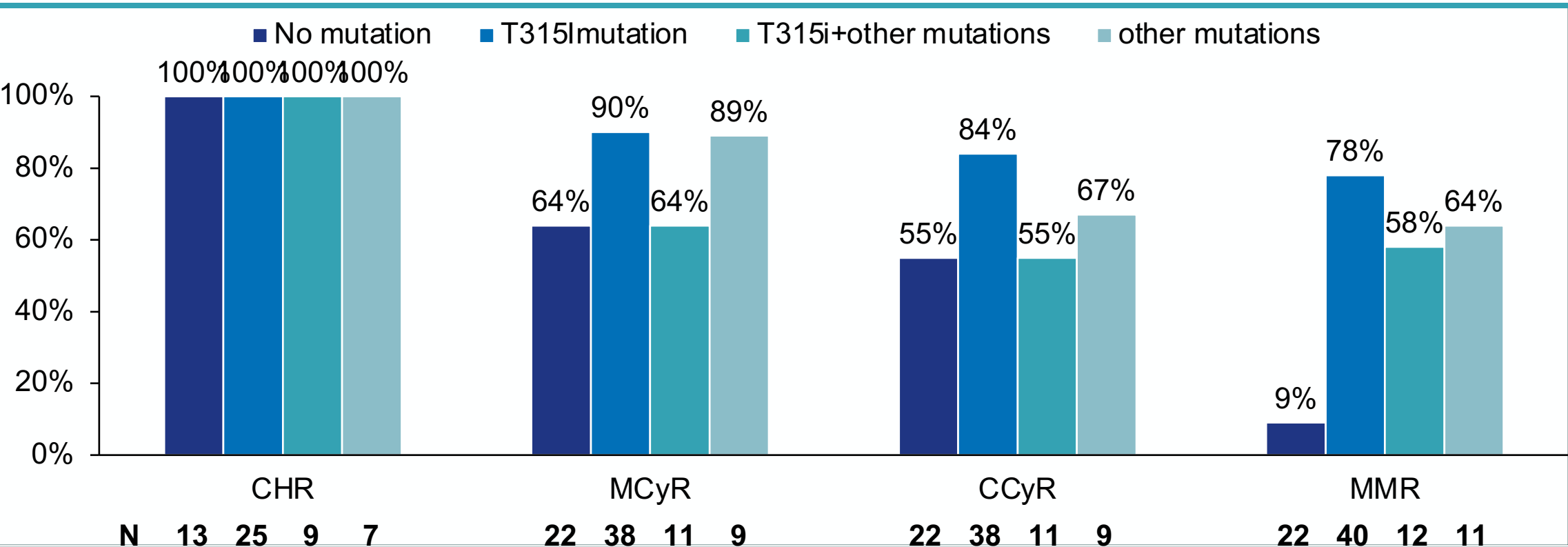




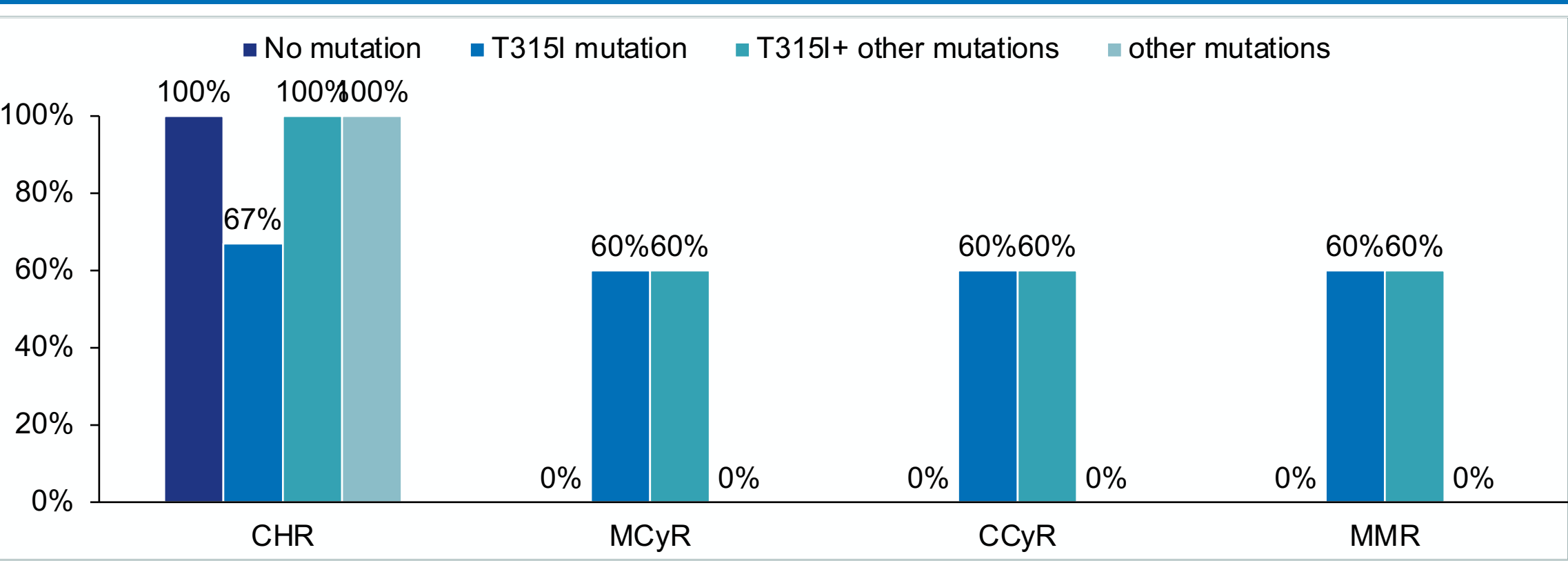
# Phase I Study Summary: Efficacy

## Highly Efficacious in TKI Resistant CML Patients

CP

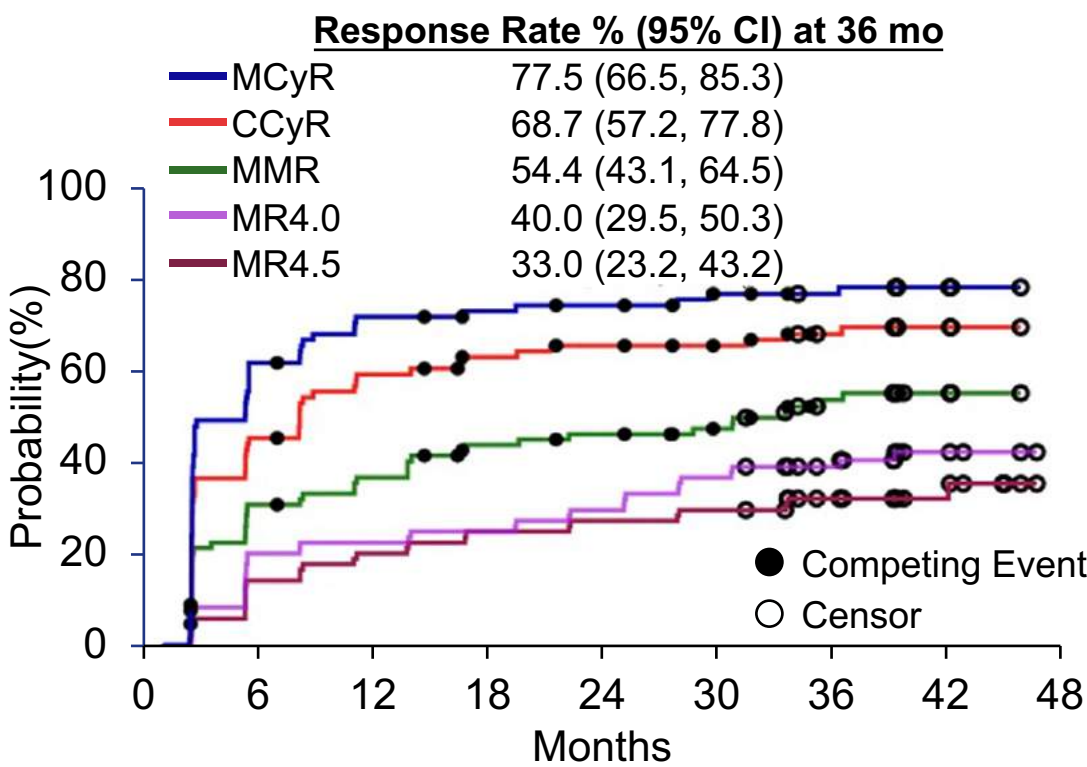


AP

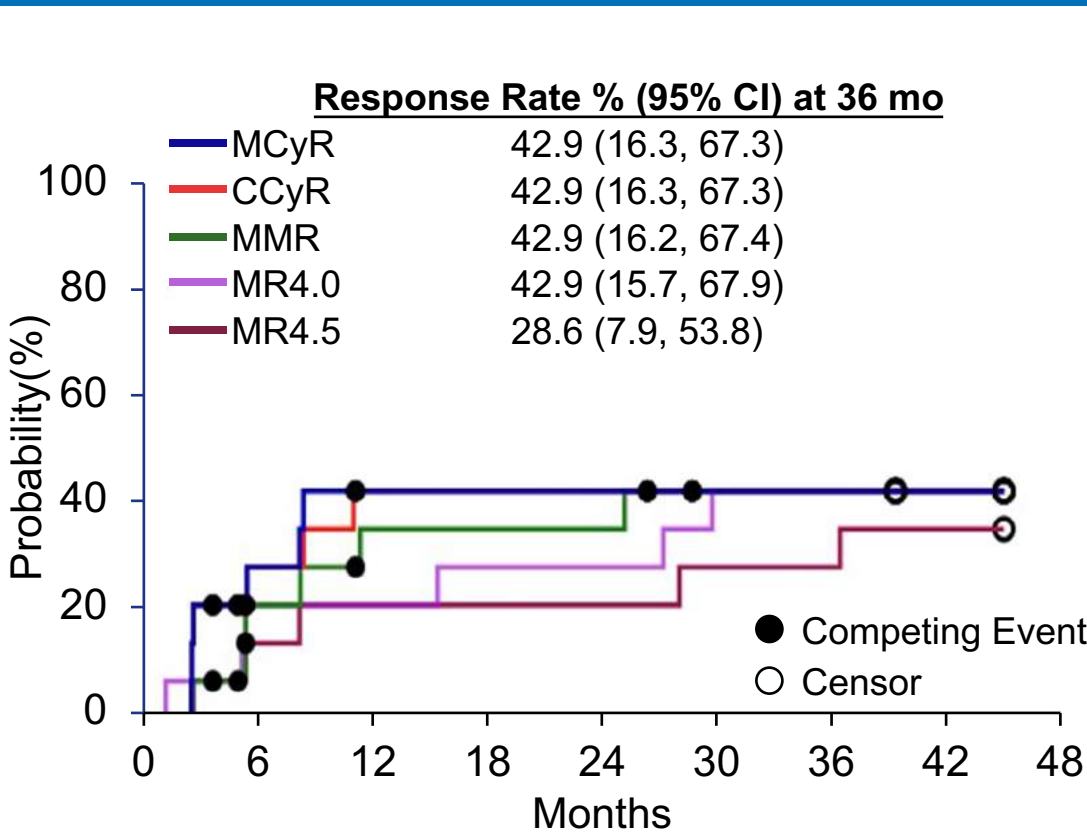


## Cumulative Incidence of Achieving Responses (≥30mg)

CP

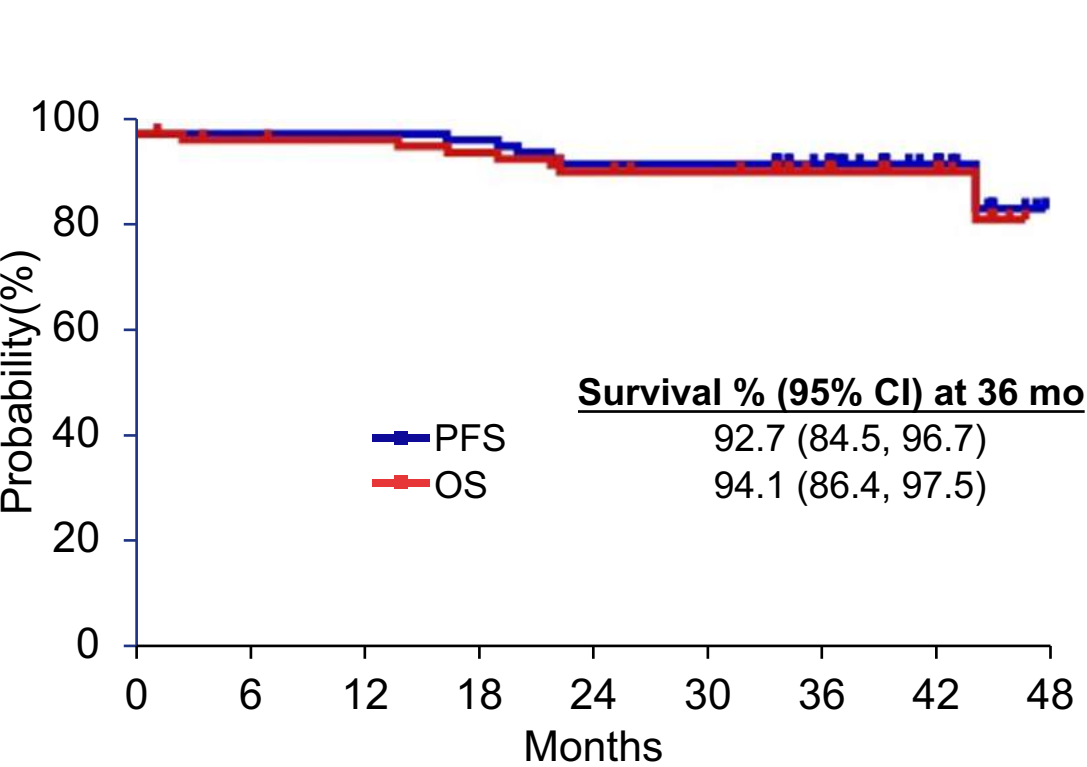


AP

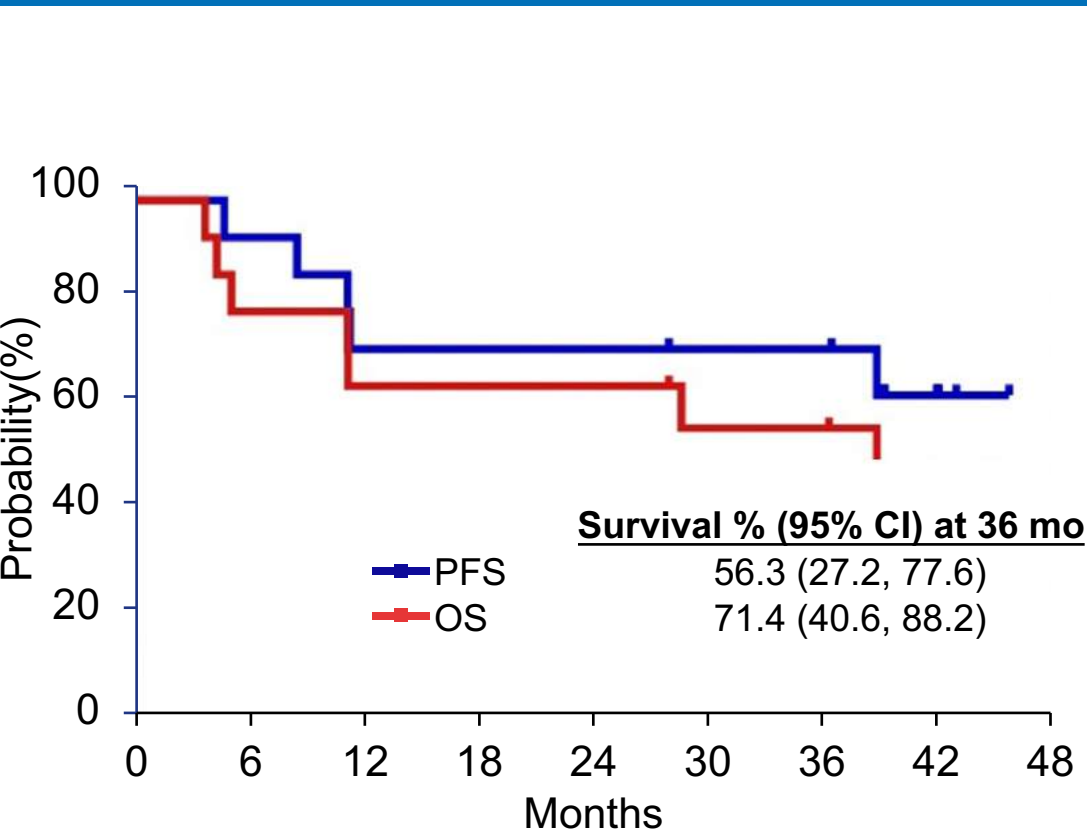


## Progression-free Survival & Overall Survival (≥ 30mg)

CP



AP

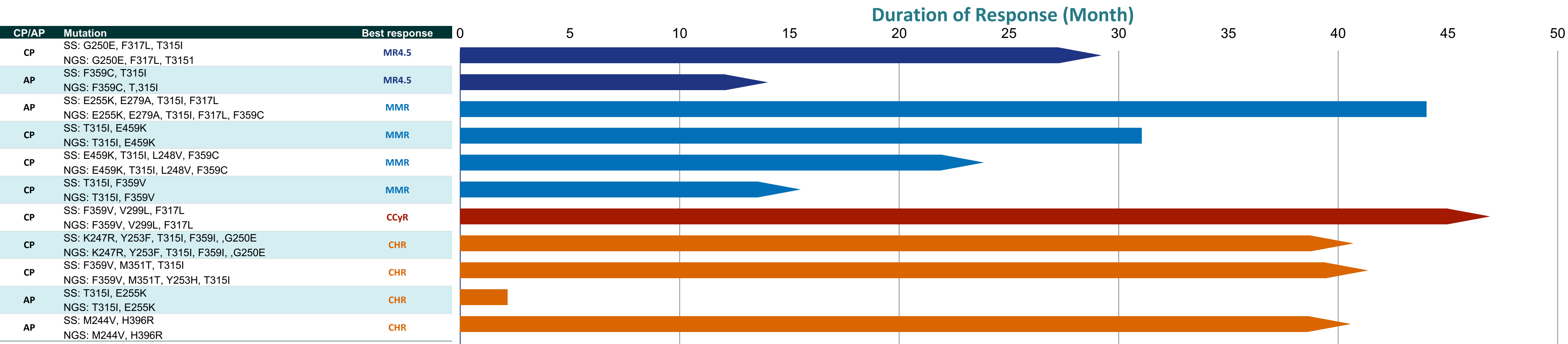
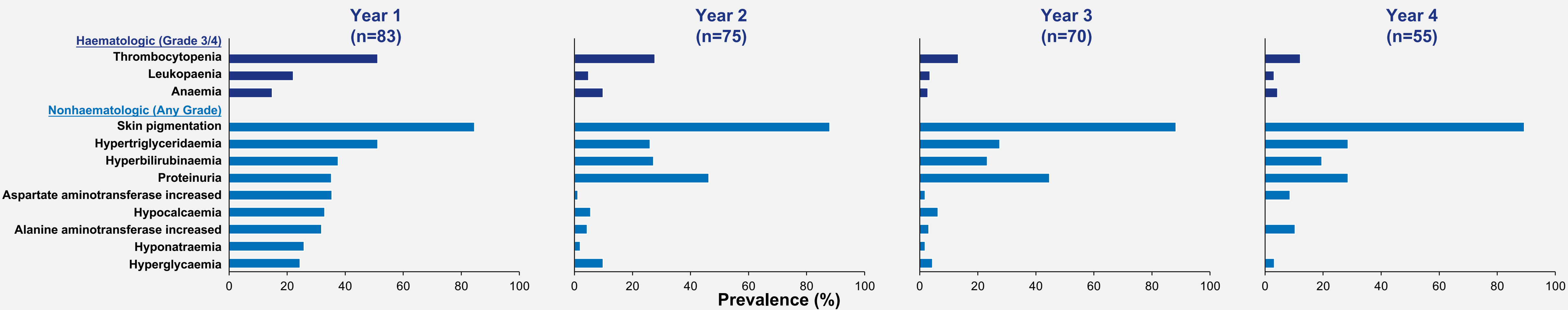


CML Response Criteria: Complete Hematological Response (CHR), Bone Marrow; Major Cytogenic Response (MCyR\*)  
Complete Cytogenic Response (CCyR), Major Molecular Response (MMR^)



# Phase I Study Summary : Safety Profile and Compound Mutation

Prevalence of Treatment-related Adverse Events over Time ( ≥30mg ), Well-Tolerated With Minimal Dose Interruptions



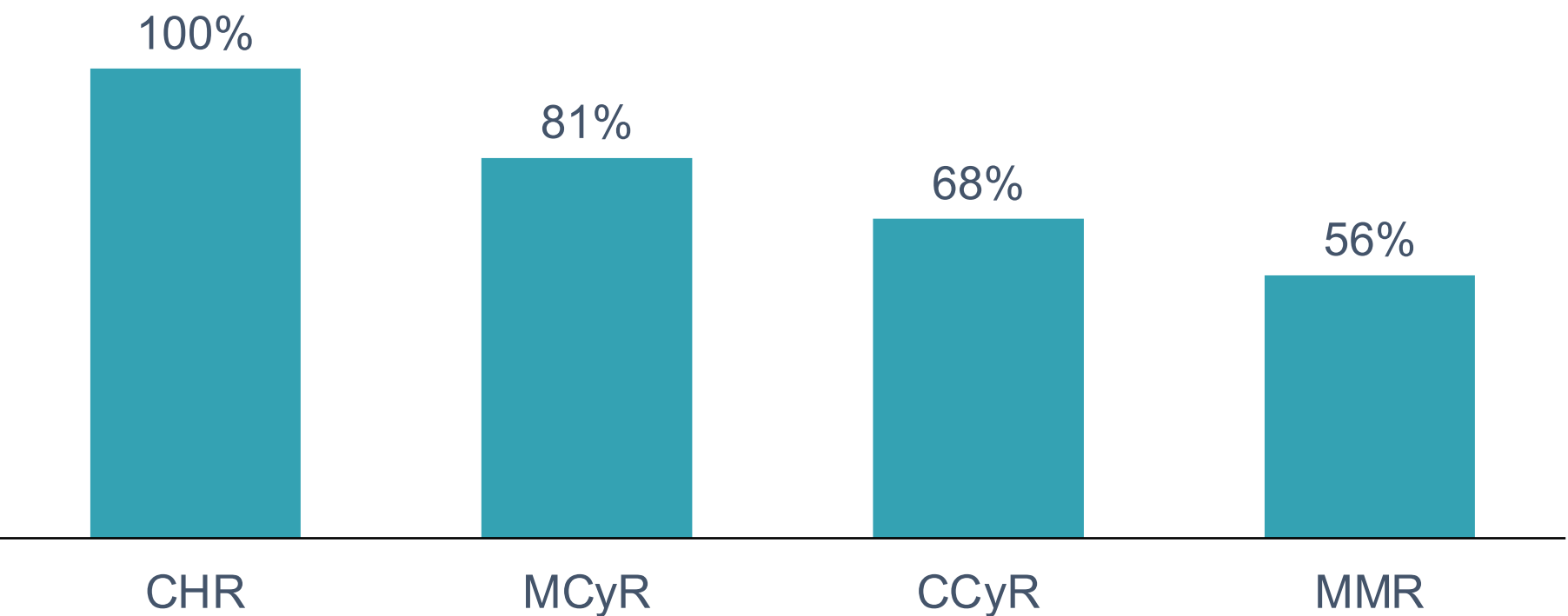


# Pivotal Phase 2 Study Summary

## Highly Efficacious in T315I-Mutated CML Patients

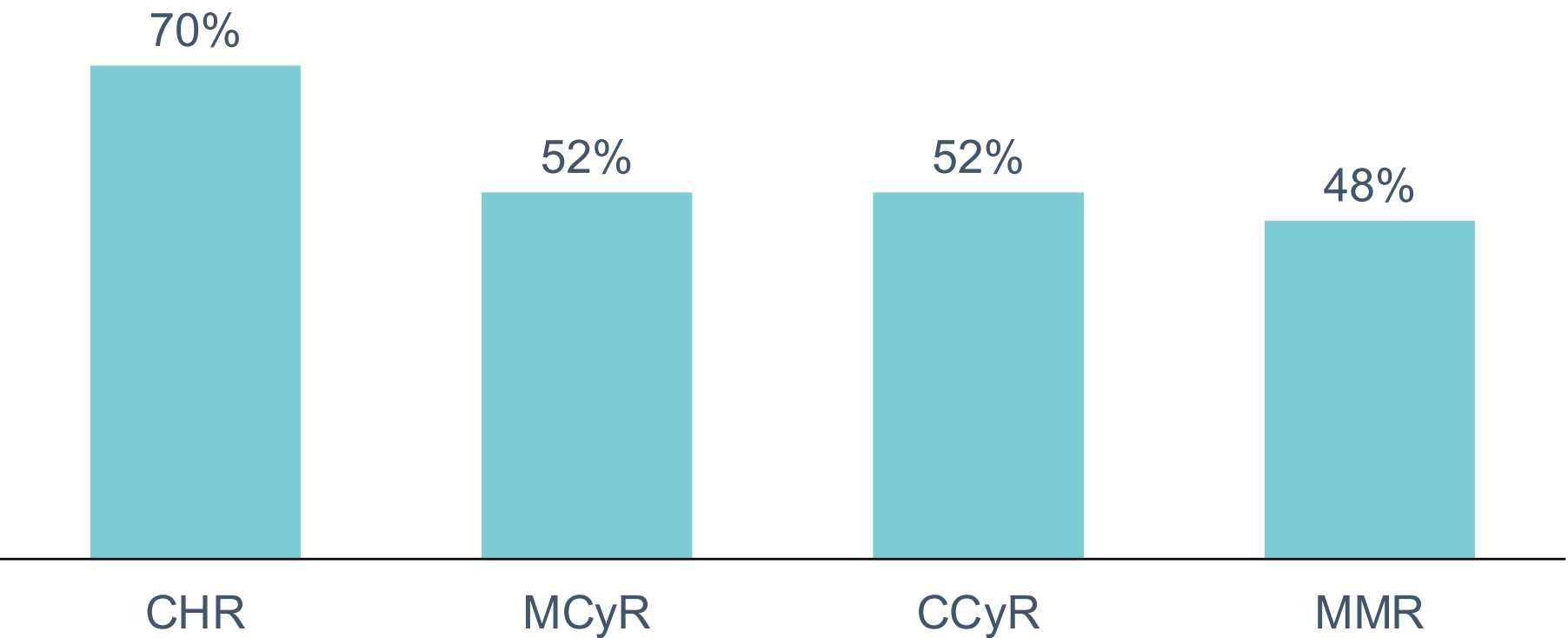
**CP**

T315I + n = 41



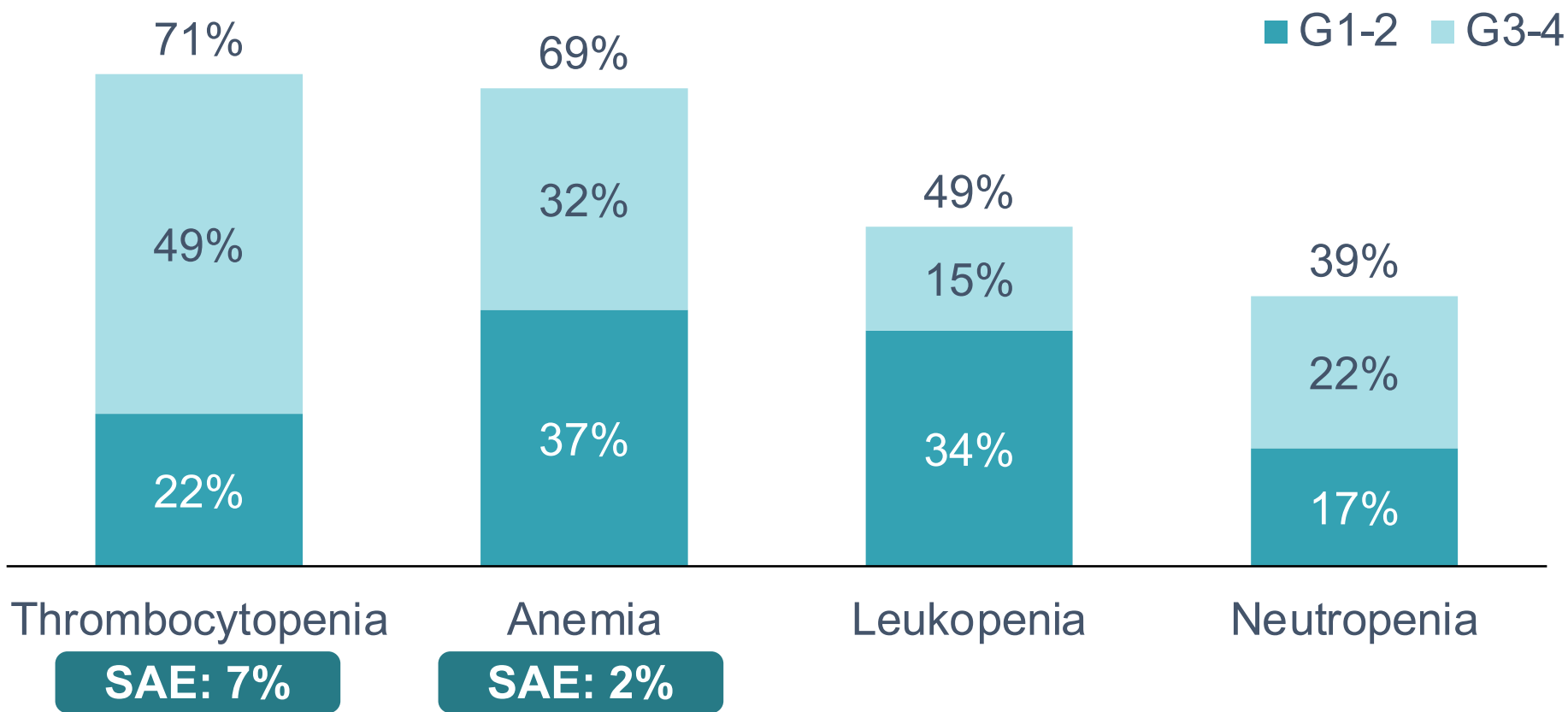
**AP**

T315I + n = 23

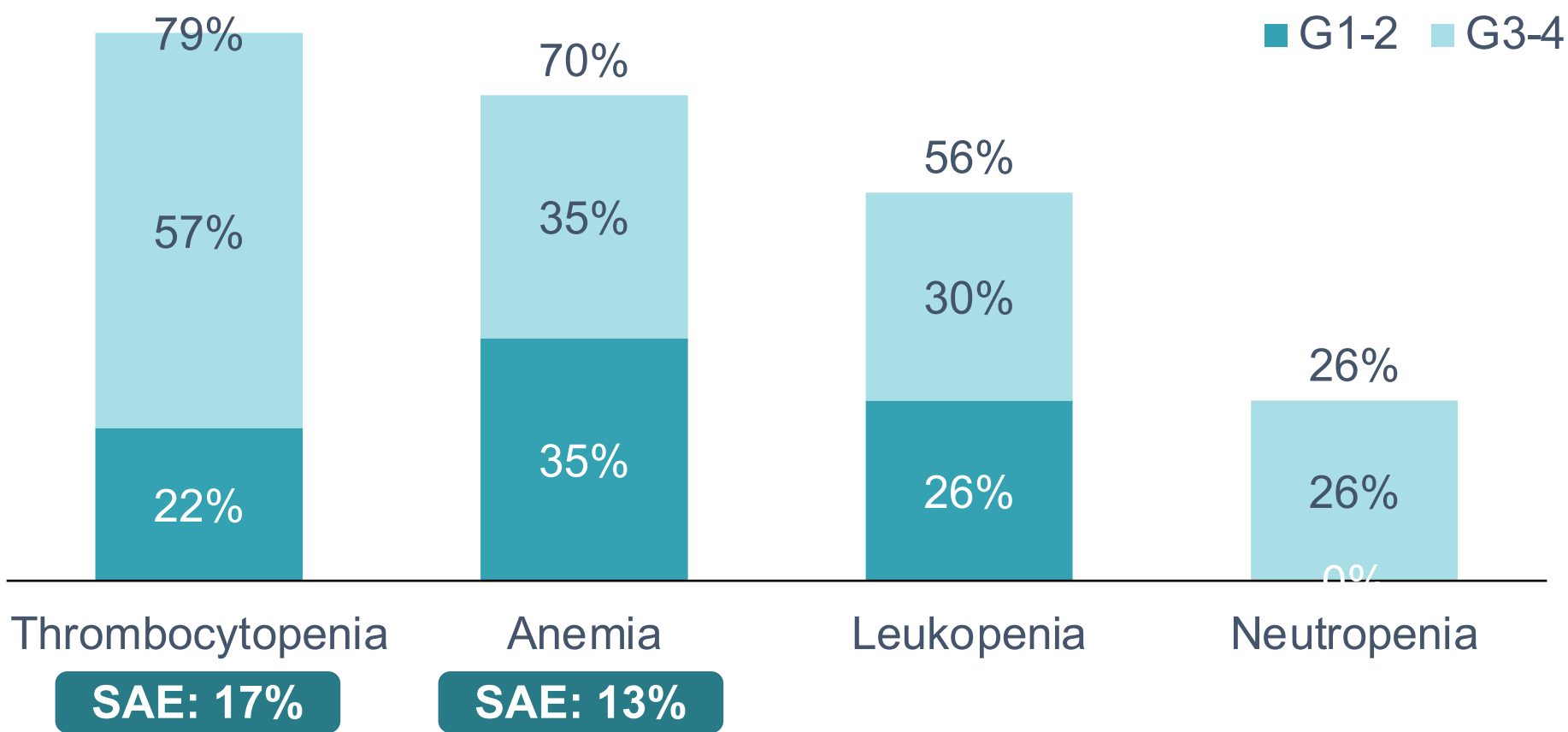


## Treatment-related Hematologic Adverse Events

**CP**



**AP**



CML Response Criteria: Complete Hematological Response (CHR), Bone Marrow; Major Cytogenic Response (MCyR\*) Complete Cytogenic Response (CCyR), Major Molecular Response (MMR^)

\* MCyR is a validated End Point, ^ MMR defined by PCR (<1/1000)

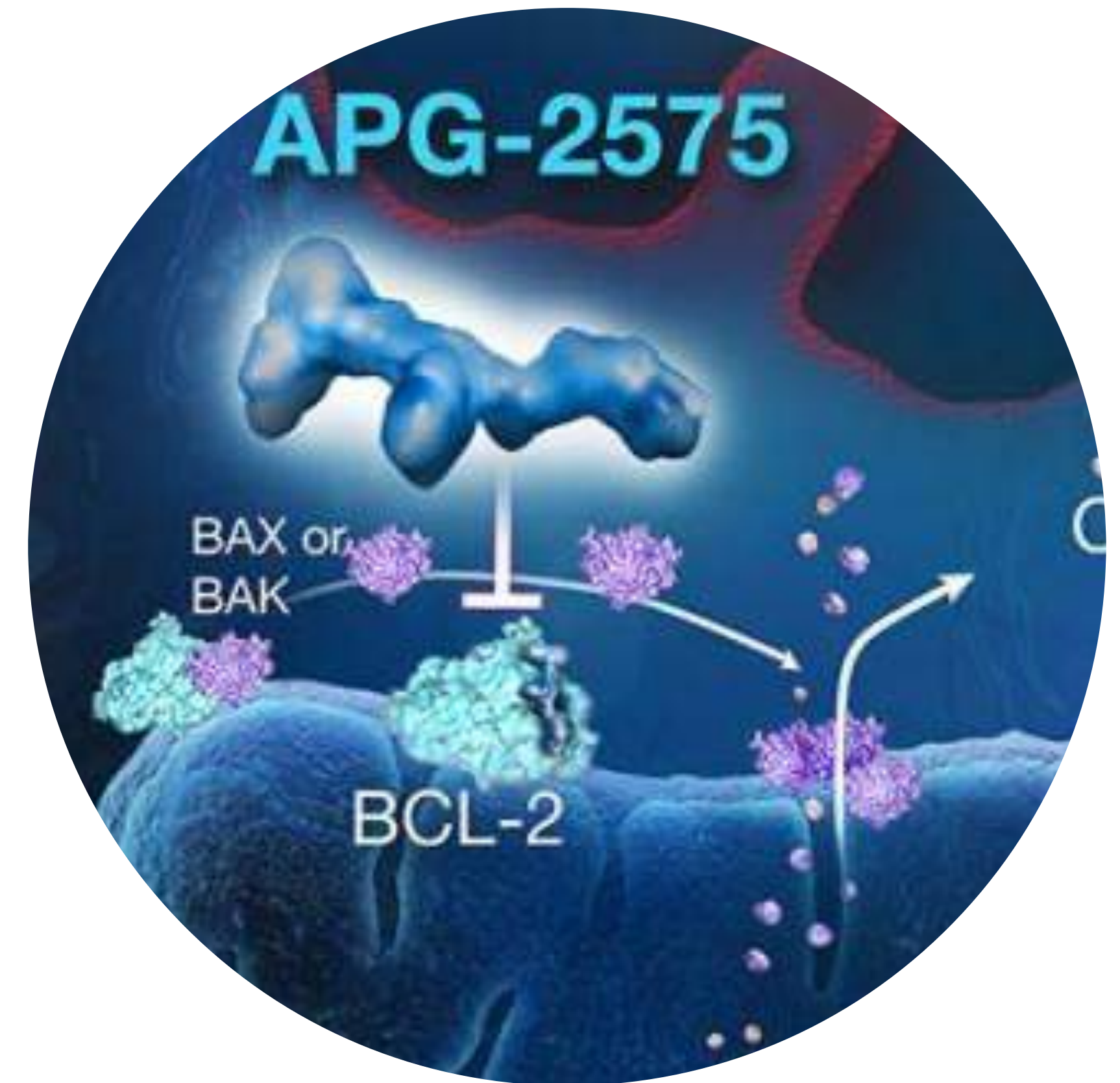


## APG-2575 Overview

Novel, orally administered Bcl-2 selective inhibitor, follow to Venclexta®

The second drug entered into pivotal phase II study globally

Best in class potential





# Clinical POC Established With Best-in-Class Safety Potential

1

More than **300** subjects enrolled into the APG-2575 studies, including r/r CLL, FL, MCL, MZL, DLBCL, WM, MM, AML, MDS and HCL patients, dosed ranging from 20mg to 1200mg

3

**Potential Best-in-Class with well tolerated safety profile**, no DLT, no MTD reported

5

**IND clearance** for ER+ breast cancer and other solid tumors by FDA

2

More than 190 patients with relapsed/refractory CLL (r/r CLL) have been treated with APG-2575 and POC achieved

- **80% PR** in Evaluable R/R CLL/SLL Patients in Phase I Study in the US
- Demonstrated **100% ORR** in Evaluable r/r CLL/SLL Patients at Dose  $\geq$  200 mg in Phase I Study in China

2

4

**5 Orphan Drug Designations (ODD):** CLL, WM, MM, AML, FL

6

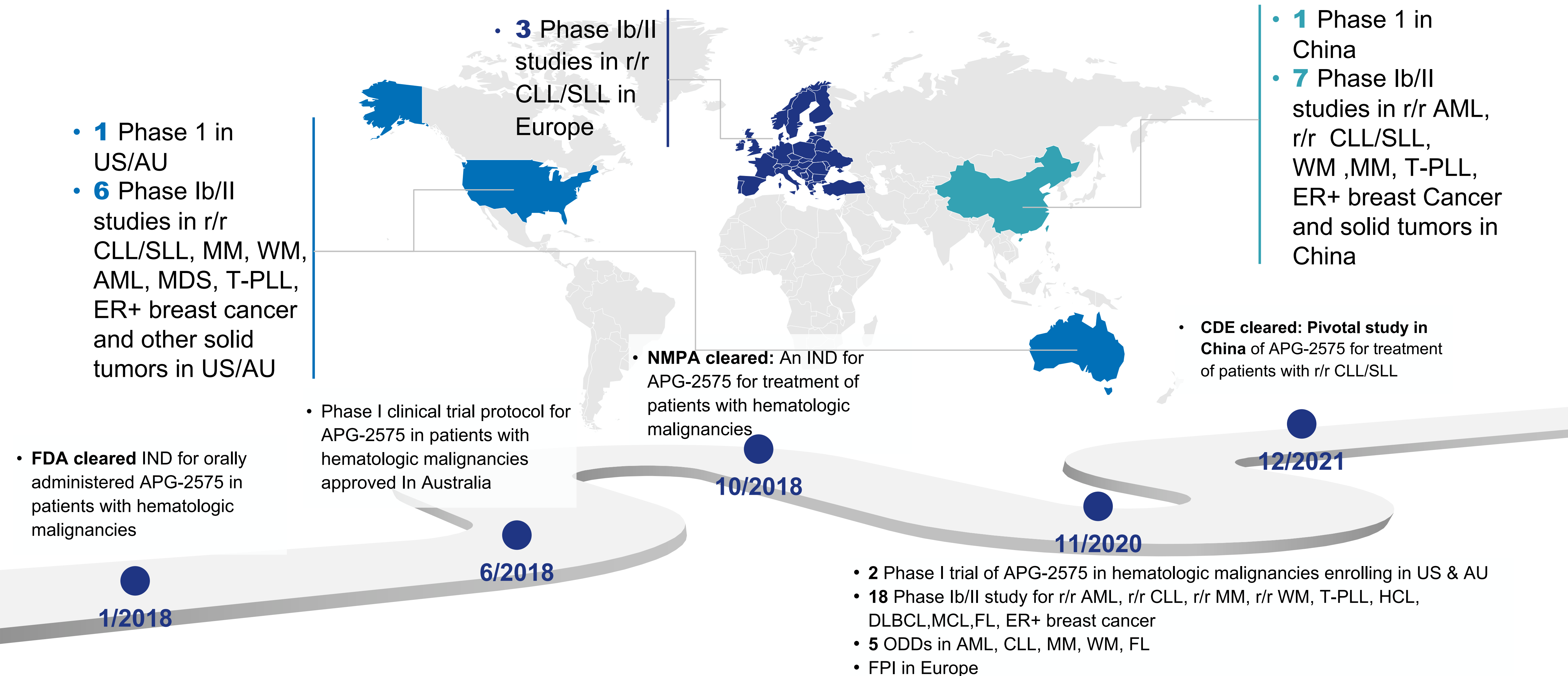
Initiated registrational pivotal Phase II study for treatment of r/r CLL/SLL and **the first patient has been dosed**





# APG-2575: IND Clearance to Pivotal Study Initiated in 3 Years

## 18 Global Phase Ib/II Studies





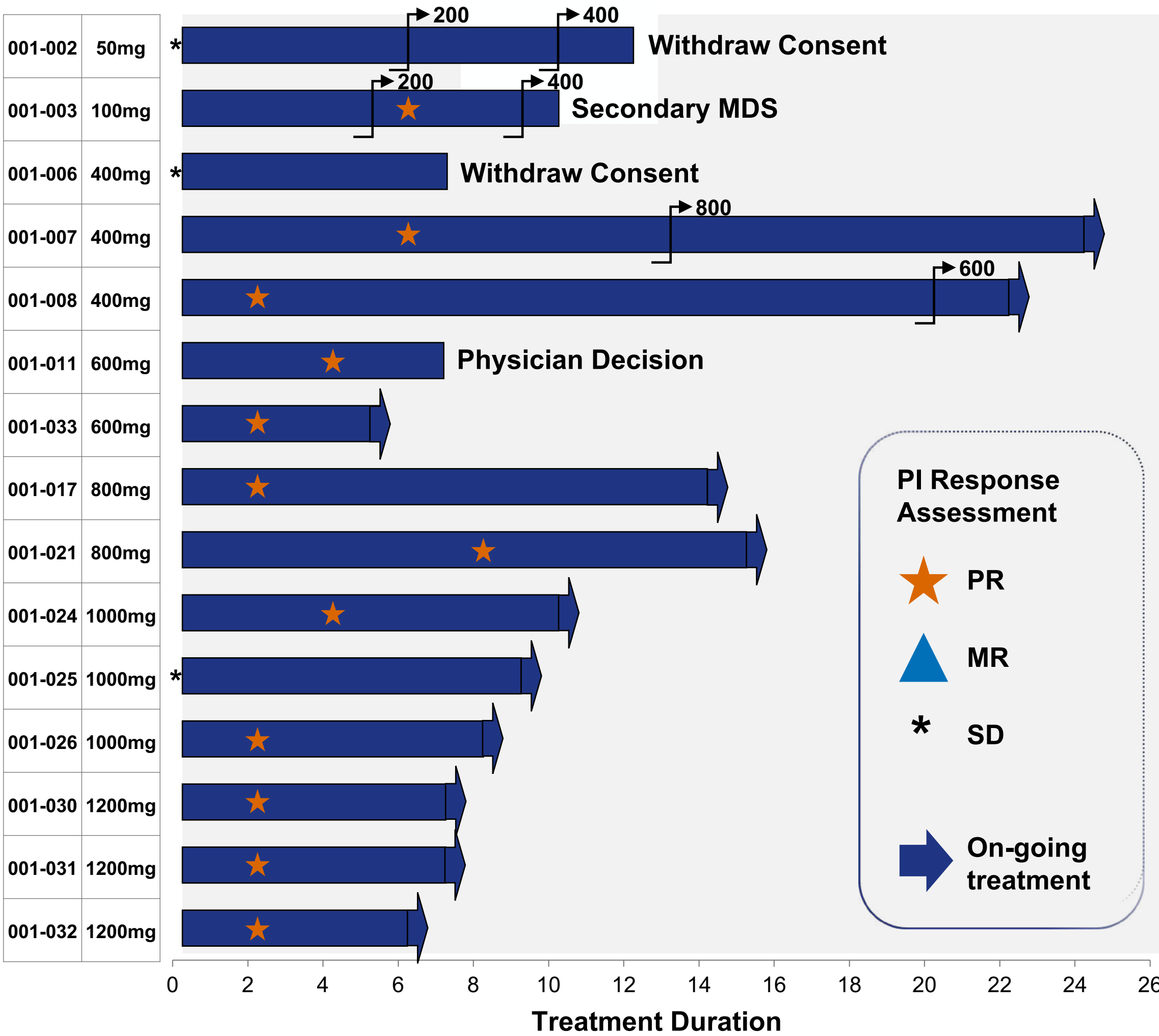
# Phase I Study in the US: Safety+ 80%ORR

## Treatment-related adverse events with APG-2575 (N = 36)

Any grade AE (≥ 10%)	No. (%)	≥ Grade 3 AE (≥ 5%)	No. (%)
Any APG-2575-related AE <sup>a</sup> :	27 (75.0)	Any ≥ grade 3 APG-2575-related AE:	9 (25.0)
Fatigue	10 (27.8)	Neutropenia	5 (13.9)
Neutropenia	8 (22.2)	Nausea	2 (5.6)
Diarrhea	7 (19.4)	Platelet count decreased	2 (5.6)
Anemia	6 (16.7)	—	—
Constipation	4 (11.1)	—	—
Nausea	4 (11.1)	—	—

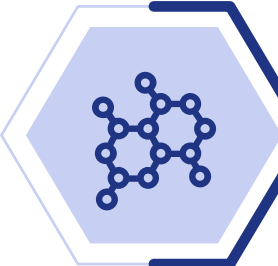
- No DLTs observed at APG-2575 doses of up to 1,200 mg.
- The MTD has not been reached.
- No laboratory or clinical TLS has been reported during this study.
- The median (range) treatment duration is 6 (1-24) cycles.
- APG-2575 at 600 mg daily has been selected as the RP2D for monotherapy.
- In all, one patient (1/36, 2.8%) discontinued APG-2575 because of TRAEs (grade 2 pruritus, skin sensitivity).
- No grade 5 TRAEs noted.

## CLL/SLL Swimmer Plot 80% PR in Evaluable R/R CLL/SLL Patients





# Phase I Study in China: Safety/Efficacy+100%ORR



Lisaftoclax is well tolerated



No DLT observed, MTD not reached



Extremely low lab and clinical TLS

## Treatment-related adverse events with APG-2575 (TRAEs; $\geq 10\%$ )

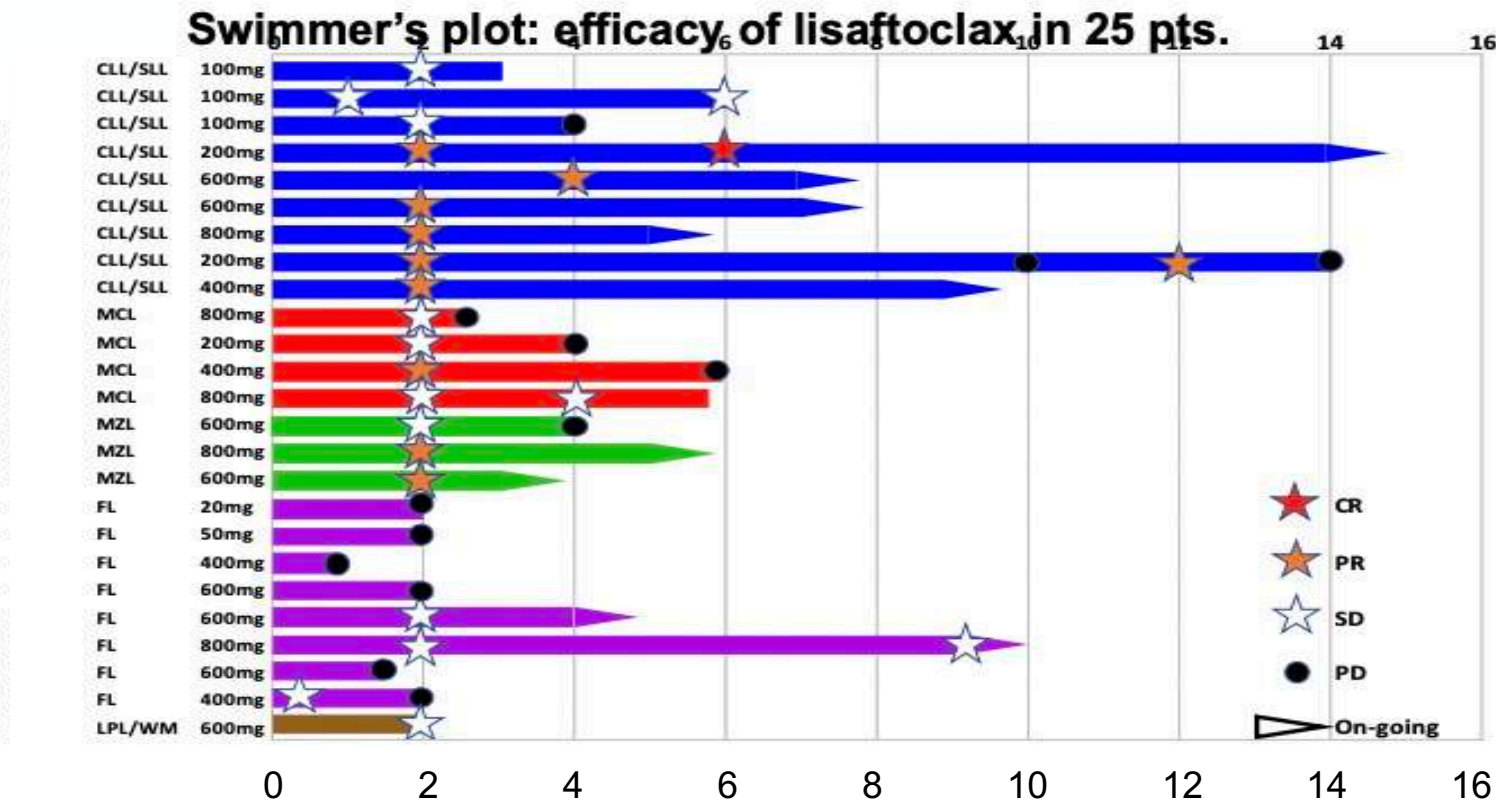
	20 mg	50 mg	100 mg	200 mg	400 mg	600 mg	800 mg	Total
Population	2	1	3	3	6	9	7	31
Any TRAE, n (%)	2 (100%)	1 (100%)	3 (100%)	3 (100%)	4 (66.7%)	7 (77.8%)	8 (100%)	28 (87.5%)
<b>System Organ Class/Preferred term, n (%)</b>								
Platelet count decreased	1 (50.0%)	0	2 (66.7%)	1 (33.3%)	2 (33.3%)	2 (22.2%)	3 (37.5%)	11 (34.4%)
Anemia	1 (50.0%)	1 (100%)	2 (66.7%)	0	0	2 (22.2%)	3 (37.5%)	9 (28.1%)
Neutrophil count decreased	0	0	2 (66.7%)	2 (66.7%)	1 (16.7%)	1 (11.1%)	1 (12.5%)	7 (21.9%)
White blood cell count decreased	0	0	1 (33.3%)	1 (33.3%)	1 (16.7%)	0	4 (50.0%)	7 (21.9%)
Hyperuricemia	0	0	1 (33.3%)	0	0	2 (22.2%)	2 (25.0%)	5 (15.6%)
Diarrhea	0	0	0	1 (33.3%)	1 (16.7%)	2 (22.2%)	1 (12.5%)	5 (15.6%)
Hyperphosphatemia	0	0	0	0	0	2 (22.2%)	2 (25.0%)	4 (12.5%)
Hypertriglyceridemia	0	0	1 (33.3%)	1 (33.3%)	0	1 (11.1%)	1 (12.5%)	4 (12.5%)

## TRAEs $\geq$ Grade 3 and SAE

	$\geq$ Grade 3, n (%)	SAE, n (%)
Population	31	31
Any TRAE, n (%)	7 (21.9)	1 (3.2)
<b>System Organ Class/Preferred term, n (%)</b>		
Platelet count decreased	4 (12.5)	1 (3.2)
Neutrophil count decreased	3 (9.4)	0
White blood cell count decreased	1 (3.1)	0
Anemia	2 (6.3)	1 (3.2)

All TRAE SAEs were observed in 1 patient at the 100-mg dose level

## APG-2575 Swimmer's plot ( 25pts )



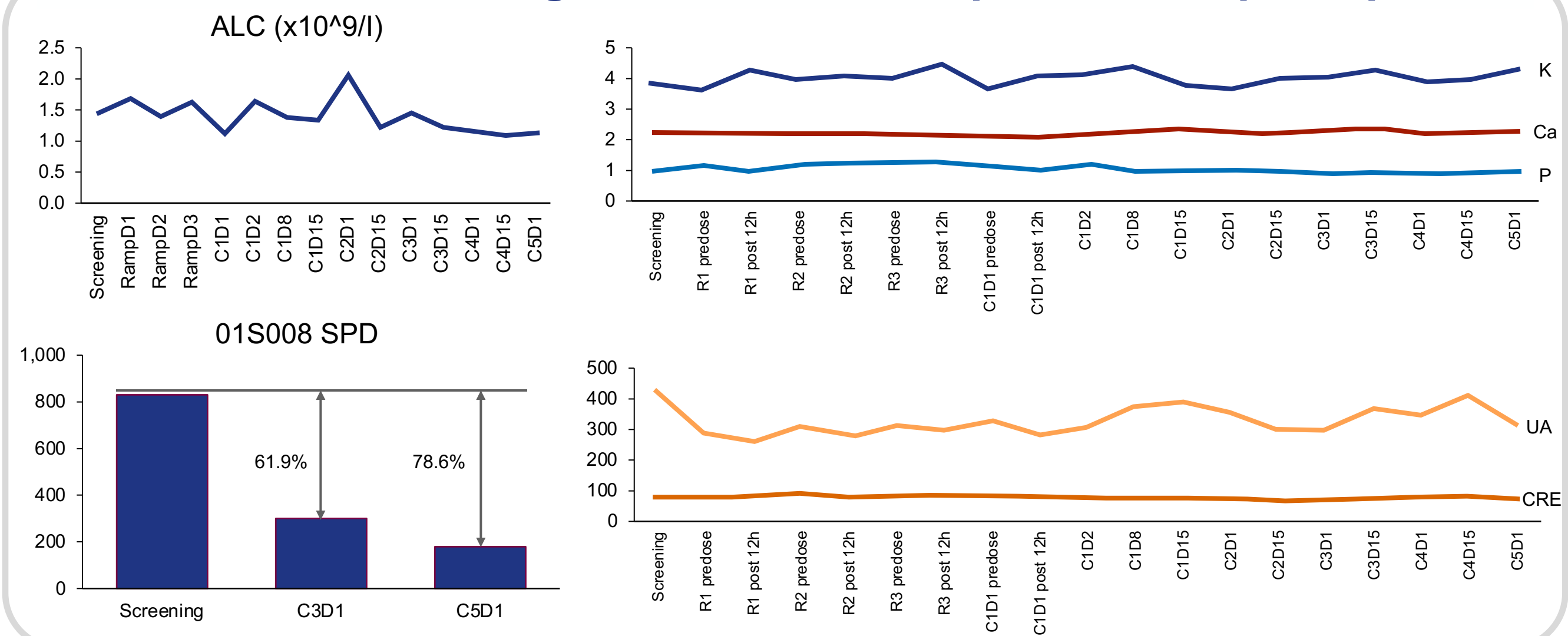
## 100% ORR in Evaluable R/R CLL/SLL Patients at Dose $\geq$ 200 mg in China Phase I Study

- With a median treatment of 4 cycles, 9/25 evaluable pts achieved at least a PR
- The highest response rates were seen in pts with CLL (66.7%). At doses of  $\geq$  200 mg, all 6 pts with CLL experienced a PR or CR.



# APG-2575-CN-001 Phase I Interim Data I Efficacy

## Ibrutinib Resistant High Risk Patient; Rapid and Deep Response

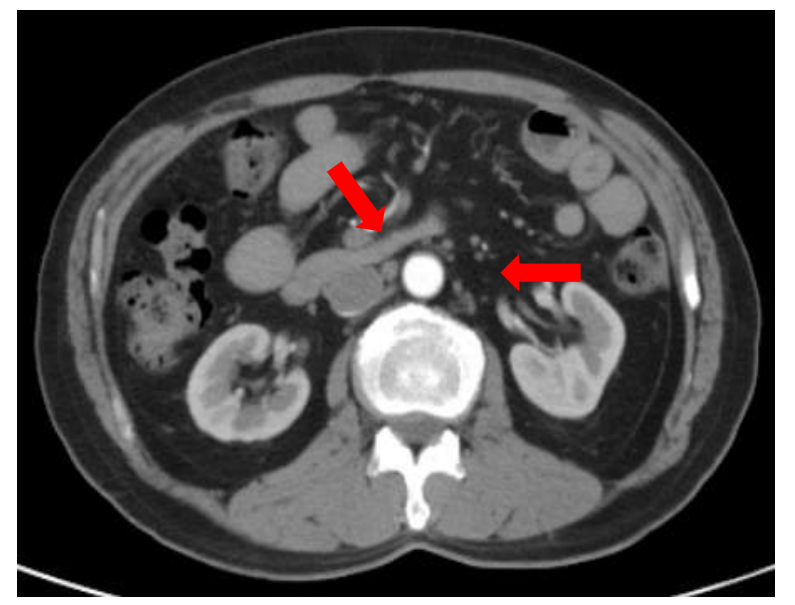
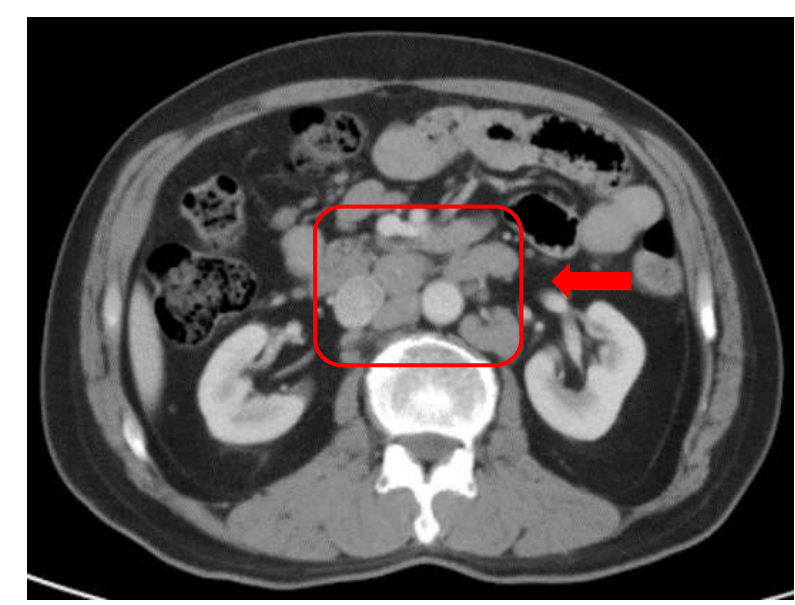


## Patient 01S008: Complete Response

CR in r/r CLL (IGVH mutation, No TP53)

Before APG-2575

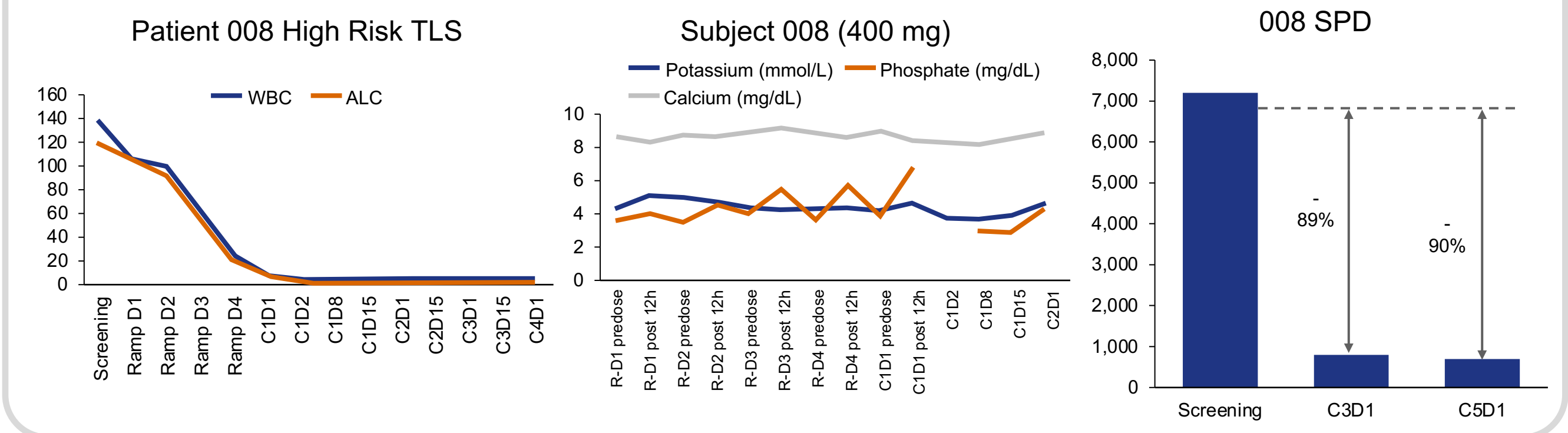
After APG-2575



Lymph Node Response: C3D1 **-62%**; C5D1 **-78.6%**; C7D1 **All lymph nodes normal**

## Del17p CLL Patient at High Risk of TLS: Rapid & Deep Response

Patient 008: PR parameters

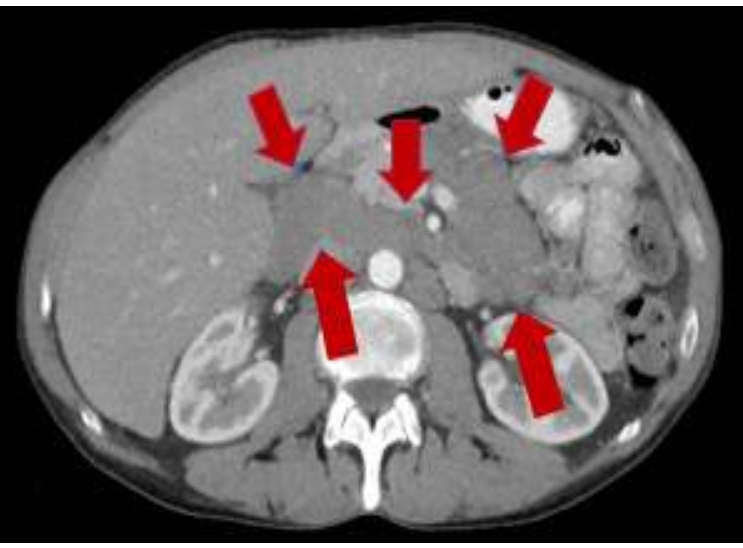


## Durable PR in a patient with r/r CLL

Patient 008: -90% Nodal Response

Before APG-2575

After APG-2575



Nodal Response: C3D1-89% | C5D1-90%

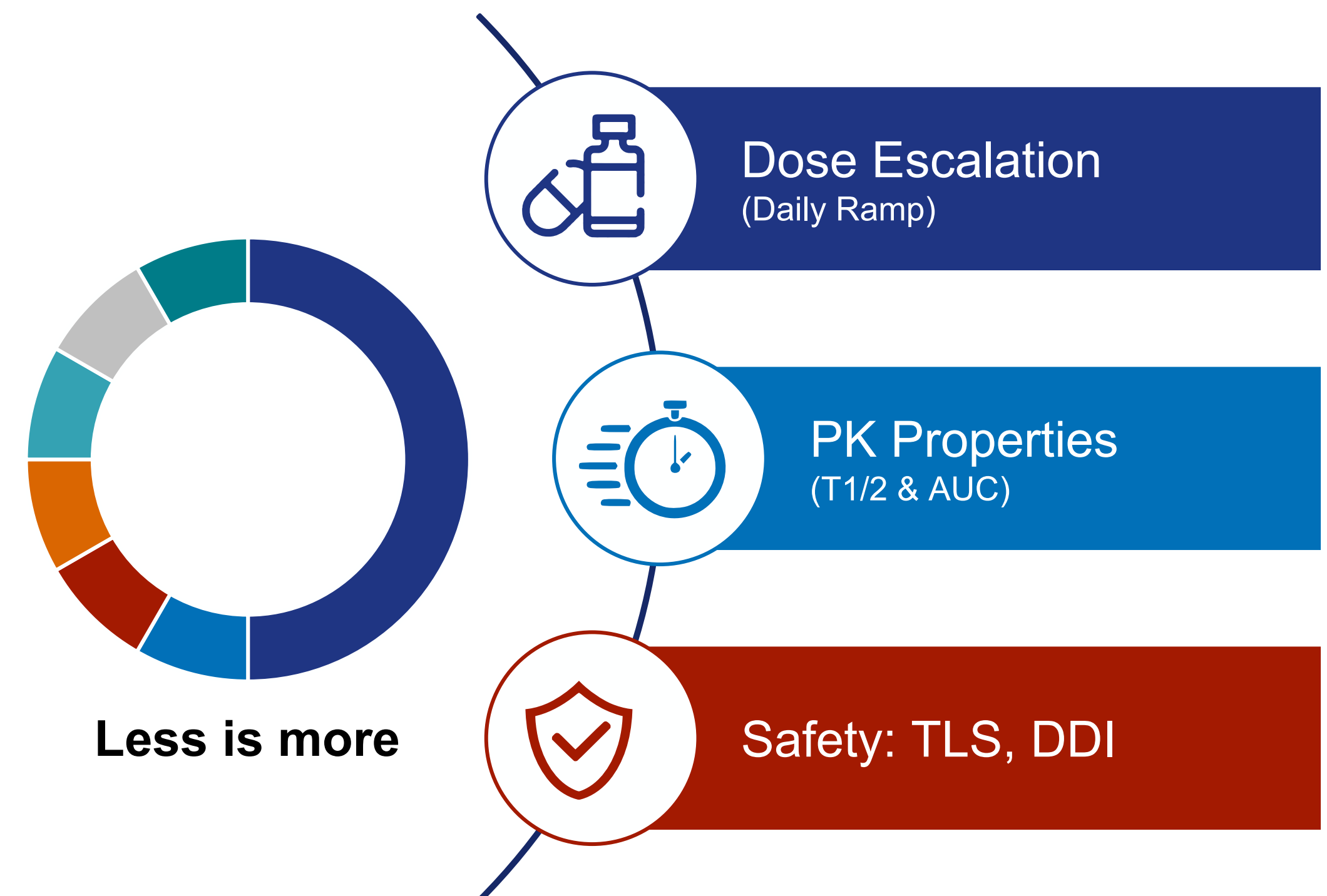


# Strong Differentiation From Venetoclax

## APG-2575 Compared to Venetoclax

- Efficacious in BTK resistant WM PDX model in which Venetoclax shows no effect
- Daily ramp-up verse weekly ramp up
- Extremely low lab and clinical TLS
- Less neutropenia and thrombocytopenia
- Short T1/2 & exposure--potentially lower risk with better safety profile
- Second BCL-2 registration clinical trial globally  
First BCL-2 registration clinical trial for CLL in China

## Product, Patient, Provider Attributes *When Selectively Targeting BCL-2*



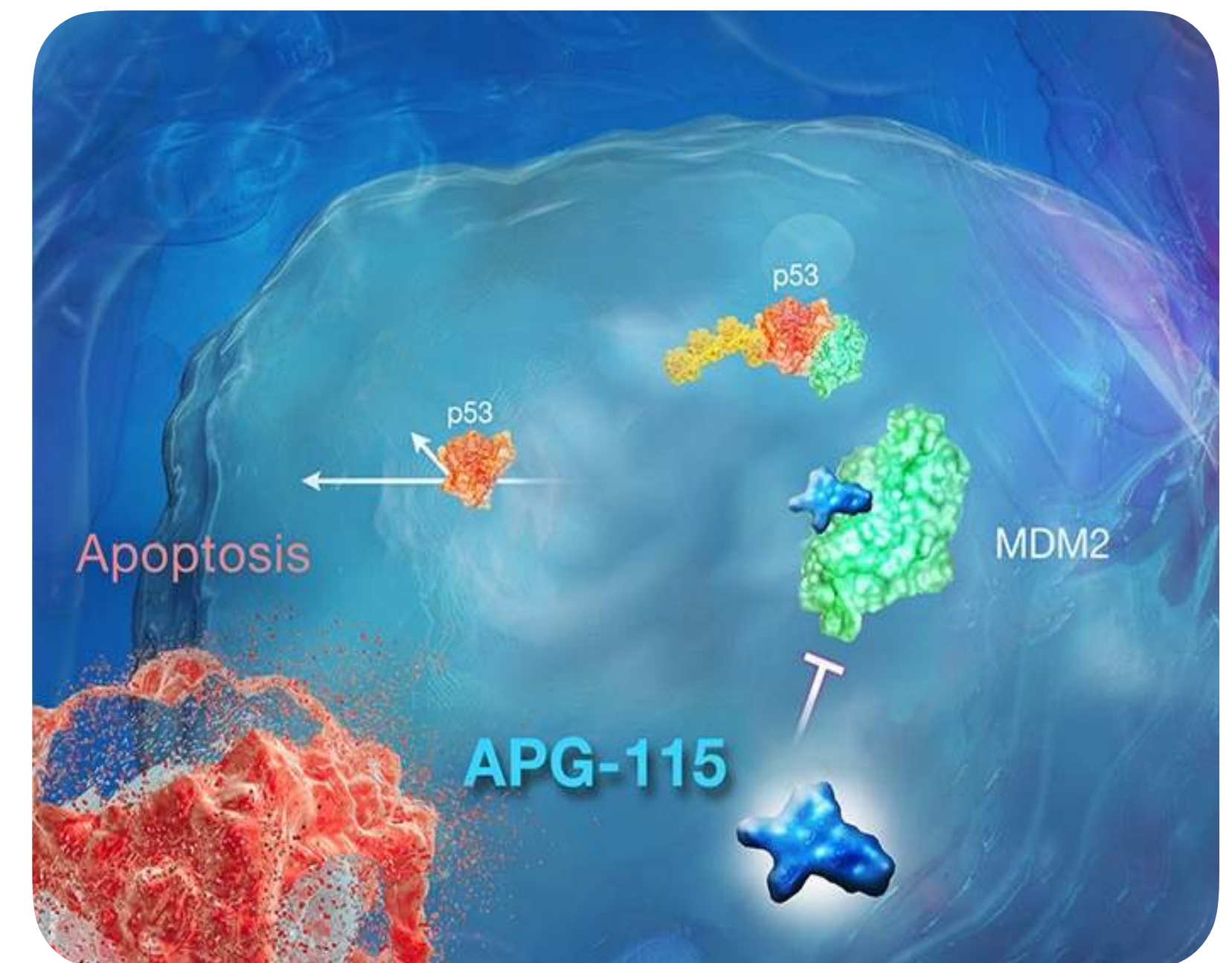


# APG-115

MDM2-p53 Inhibitor

Activates p53 tumor suppression via  
MDM2-p53 PPI

Potential First-in-Class Drug





# APG-115 : Mechanism

## APG-115 Delivers Anti-tumor Activity by Multiple MOAs

### Tumor Cells Apoptosis

Activates WT p53-dependent intrinsic apoptosis.

### T-Cell Mediated Anti-tumor Immunity

MDM2 protein expression is upregulated in T-cell and is essential in enhancing T-cell function via stabilization of STAT5 protein

(Zhou et al. Nature 2021)

- STAT5 activation is important for CD8<sup>+</sup> T-cell survival and function.
- MDM2 competes with c-Cbl and prevents c-Cbl-mediated STAT5 degradation.
- APG-115 synergizes with IO and enhances T-cell mediated antitumor immunity.

### Tumor microenvironment

Activates innate immunity by reprogramming macrophages M2 to M1 to suppress tumorigenesis (Fang et al. 2019).

### Synthetic Lethality

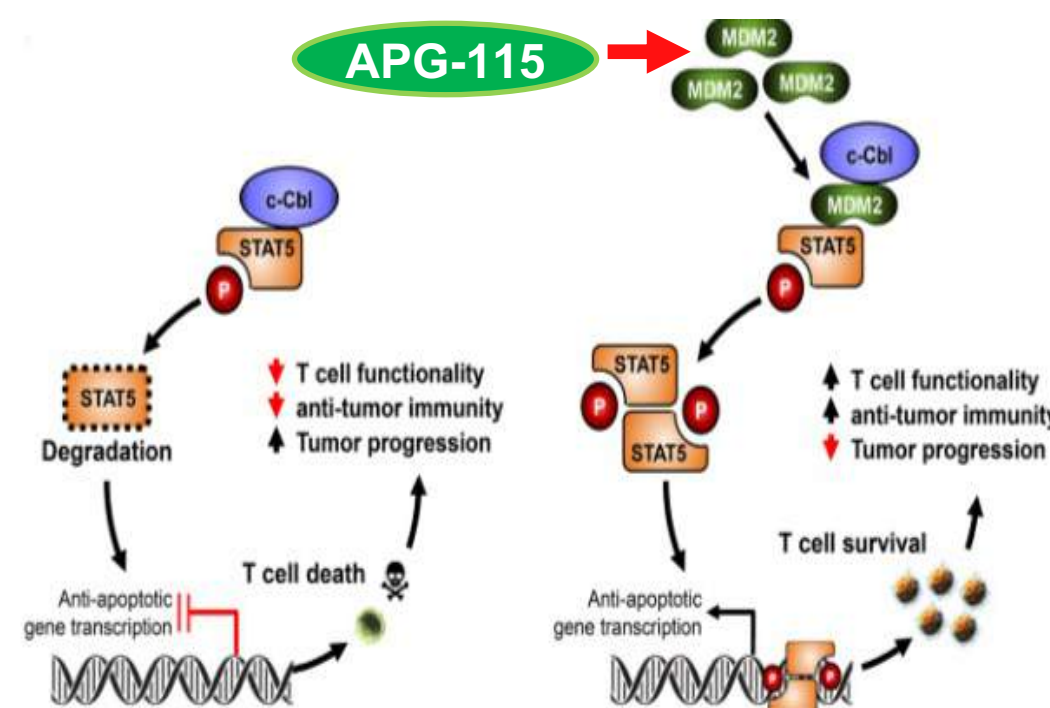
+ Bcl-2: AML, DLBCL  
(Luo et al. 2020)

+ BET: AML  
(Li et al. 2020; Latif et al. 2021)

+ ATM / + MET: Lung, CRC  
(Sullivan et al. 2012)

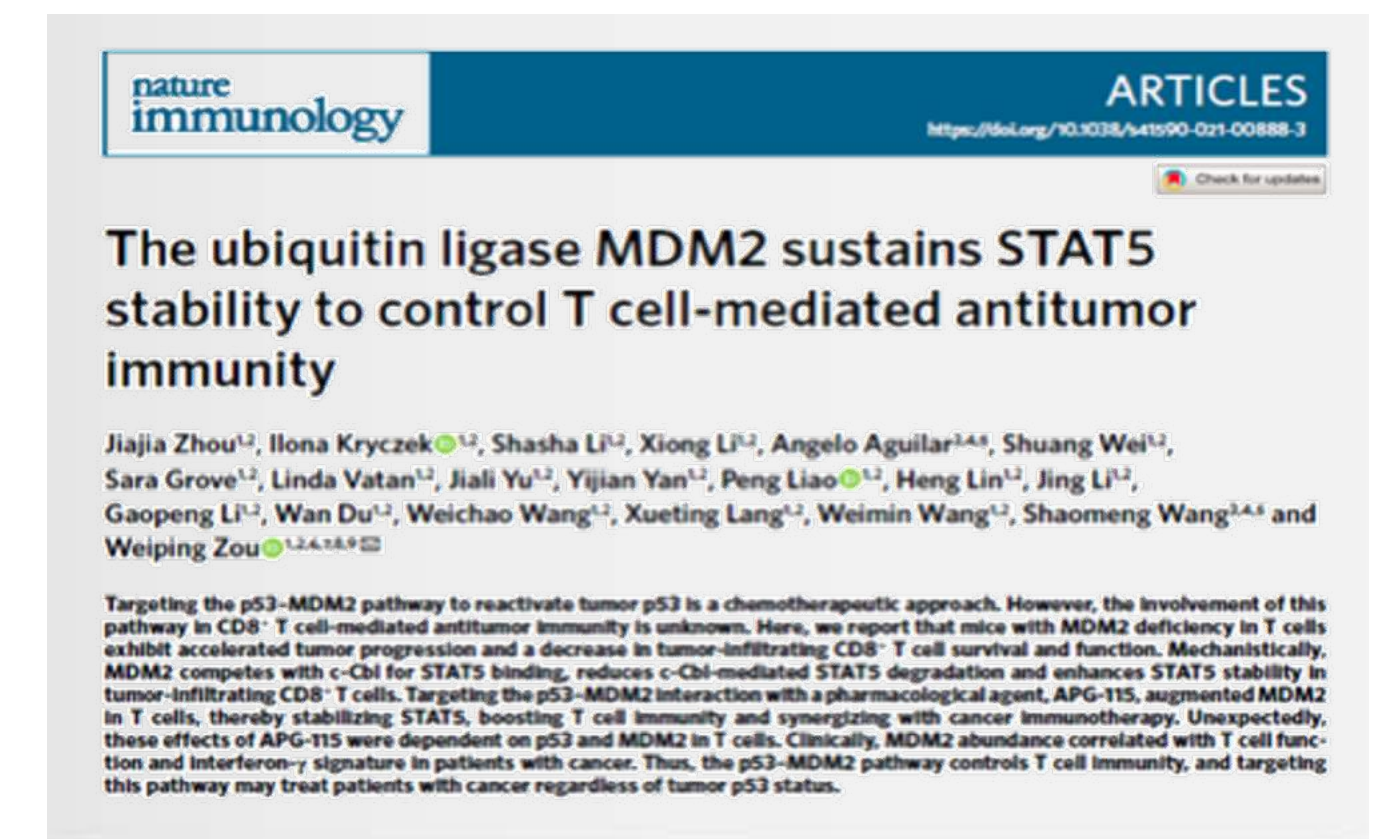
## APG-115 Inhibition of MDM2-p53 interaction

## Host immunomodulator



Zhou J et al. Nat Immunol 2021;22:460-470.

STAT5, signal transducer and activator of transcription 5.  
5. Tolcher AW et al. Molec Cancer Ther 2019;18:A086.





# APG-115 : Clinical Development and Progress



**First-in-class** potential  
**Achieved Clinical POC**



The FDA has granted **six ODDs** to APG-115 for the treatment of soft tissue sarcoma, gastric cancer (GC), AML, Retinoblastoma, stage IIB-IV melanoma as well Neuroblastoma.



Granted **2 Rare Pediatric Disease (RPD)** designation for the treatment of Retinoblastoma and Neuroblastoma



Granted a **Fast Track Designation** (FTD) by the FDA for the treatment of patients with unresectable or metastatic melanoma, relapsed/refractory to prior immuno-oncologic agent (IO) treatments.



## Clinical Development in the US

- Combination with KEYTRUDA®
  - Phase Ib clinical trial completed the patient enrollment
  - The results of a phase II clinical study of APG-115 in combination with pembrolizumab demonstrated promising antitumor activity and good tolerability, and specifically in the PD-1/PD-L1 inhibitor-resistant melanoma cohort reported 1 patient with complete response (CR), an objective response rate (ORR) of 24.1%, and a disease control rate (DCR) of 55.2%.
  - A phase Ib/II study of APG-115 alone or in combination with azacytidine in AML/MDS/CMML (chronic myelomonocytic leukemia).
- An investigator-initiated monotherapy phase I/II study for treatment of salivary gland cancer.

## Clinical Development in China

- In May 2021, we initiated a trial of APG-115 in combination with PD-1 Inhibitor in patients with advanced liposarcoma or advanced solid tumors. First patient has been dosed for this trial.
- A phase Ib monotherapy study followed by a combination study with azacytidine or cytarabine in R/R MDS or AML.





# APG-115 Plus Pembrolizumab: Efficacy

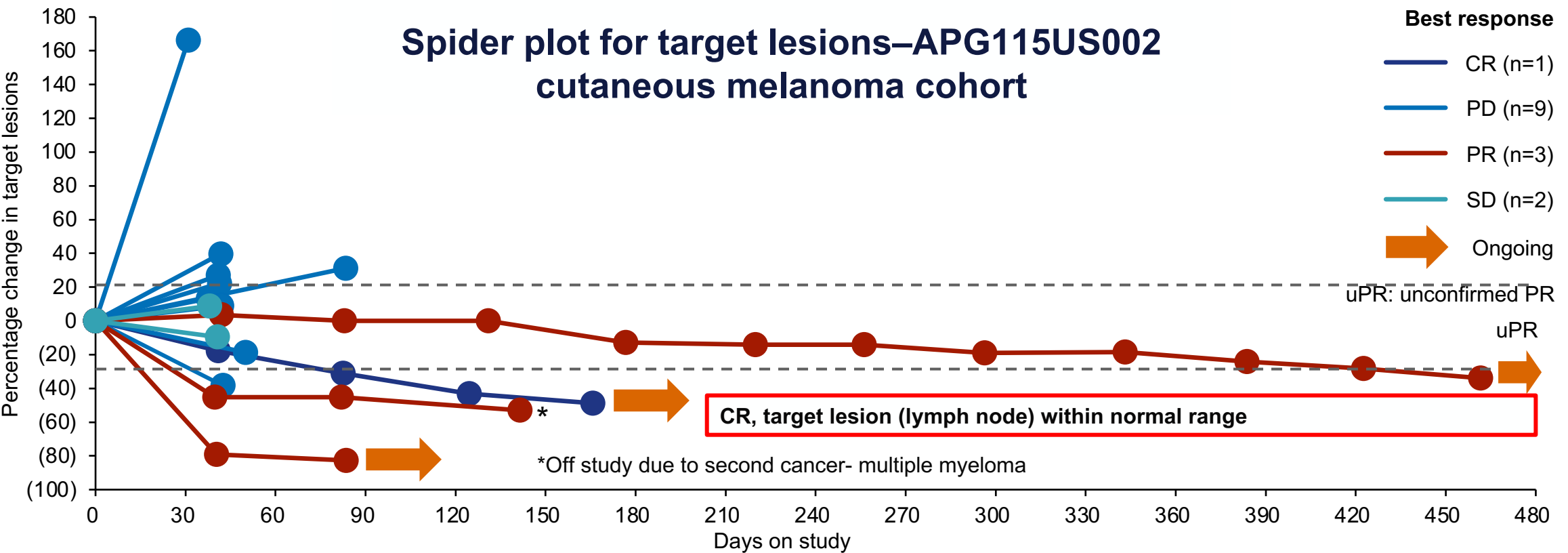
## Efficacy in all Cohorts

Response	Melanoma (n = 32)	NSCLC (n = 19)	STK-11 (n = 5)	ATM (n = 11)	Liposarcoma (n = 17)	UC (n = 12)	MPNST (n = 6)
<b>ORR</b> (CR + PR)	24.1% (7/29)	6.7% (1/15)	0	0	6.2% (1/16)	12.5% (1/8)	16.7% (1/6)
<b>DCR</b> (CR + PR + SD)	55.2% (16/29)	46.7% (7/15)	25% (1/4)	44.4% (4/9)	81.2% (13/16)	12.5% (1/8)	66.7% (4/6)

Best overall RECIST or iRECIST response							
<b>CR</b>	1	0	0	0	0	0	0
<b>PR</b>	6 (2 unconfirmed)	1	0	0	1 (unconfirmed)	1	1 (unconfirmed)
<b>SD</b>	9	6	1	4	12	0	3

**ORR** and **DCR** are based on efficacy evaluable population; stable disease (**SD**) requires a minimum duration of 2 cycles. **CR**, complete response; **DCR** disease control rate; **PR**, partial response; **RECIST**, Response Evaluation Criteria in Solid Tumors; **UC**, urothelial carcinoma.

## Efficacy in Patients with IO Resistant Cutaneous Melanoma Treated with APG-115 Plus Pembrolizumab



## Efficacy in Patients with IO Resistant Melanoma

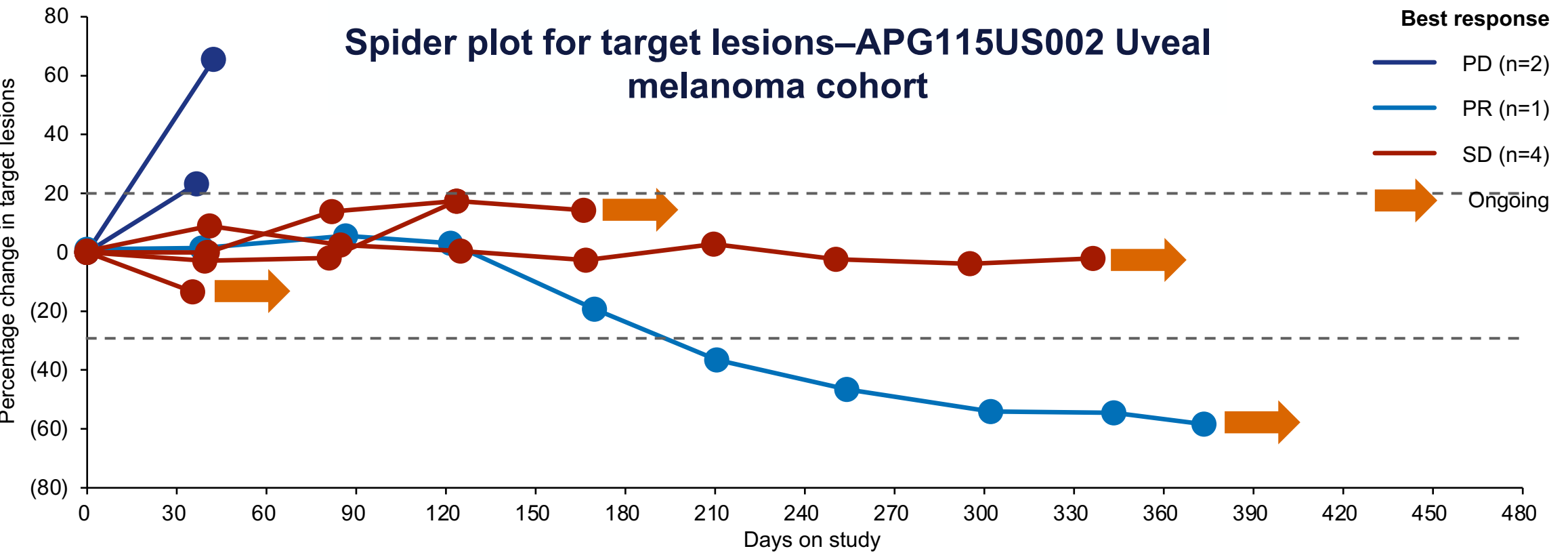
Response	Uveal (n = 8)	Mucosal (n = 5)	Cutaneous (n = 16)	Unknown primary (n = 3)	Total (N = 32)
<b>ORR</b> (CR + PR)	14.3% (1/7)	40% (2/5)	26.7% (4/15)	0	<b>24.1%</b> (7/29*)
<b>DCR</b> (CR + PR + SD)	71.4% (5/7)	40% (2/5)	46.7% (7/15)	100% (2/2)	<b>55.2%</b> (16/29)

Best overall RECIST or iRECIST response					
<b>CR</b>	0	0	1	0	<b>1</b>
<b>PR</b>	1	2 (1 unconfirmed)	3 (1 unconfirmed)	0	<b>6</b>
<b>SD</b>	4	0	3	2	<b>9</b>

Data cutoff: April 15, 2021.

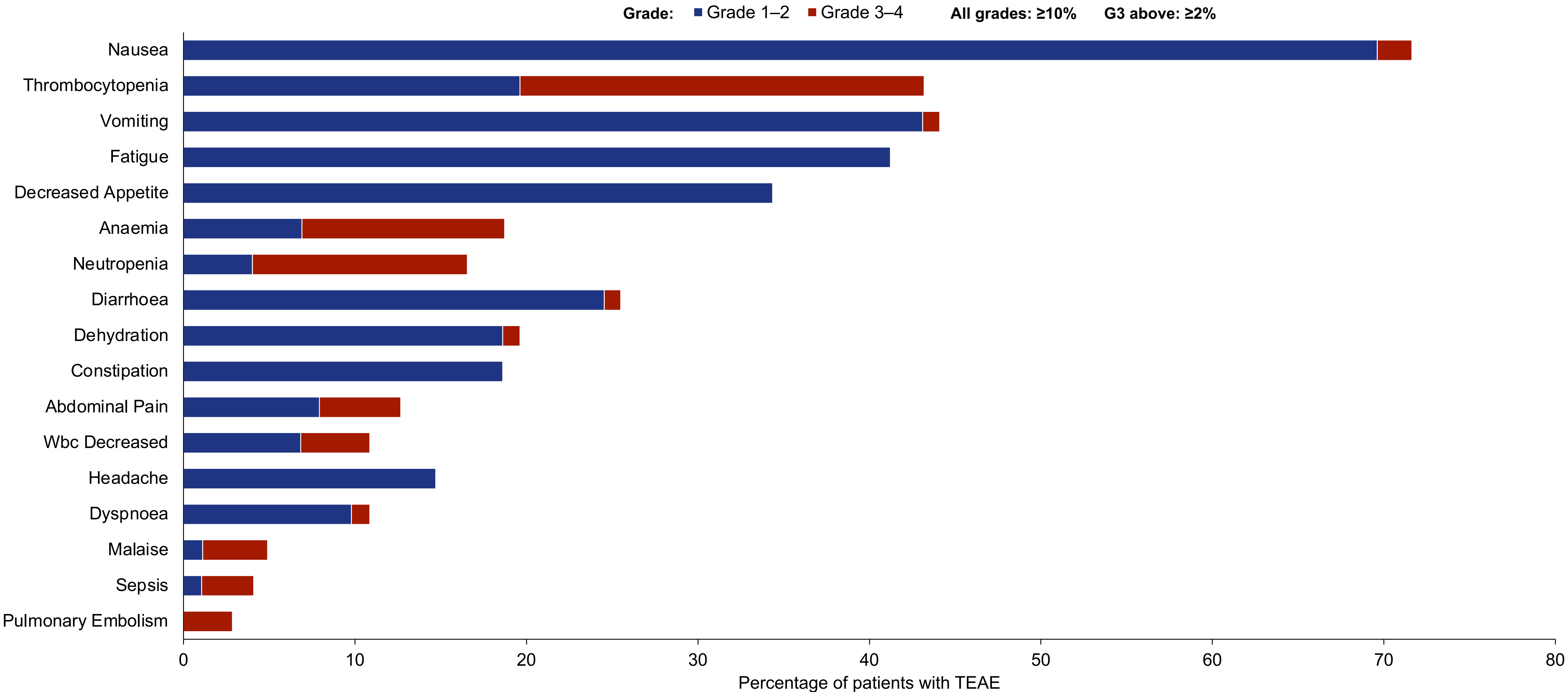
\* Total evaluable patient N: 29

## Efficacy in Patients with IO Resistant Uveal Melanoma Treated with APG-115 Plus Pembrolizumab





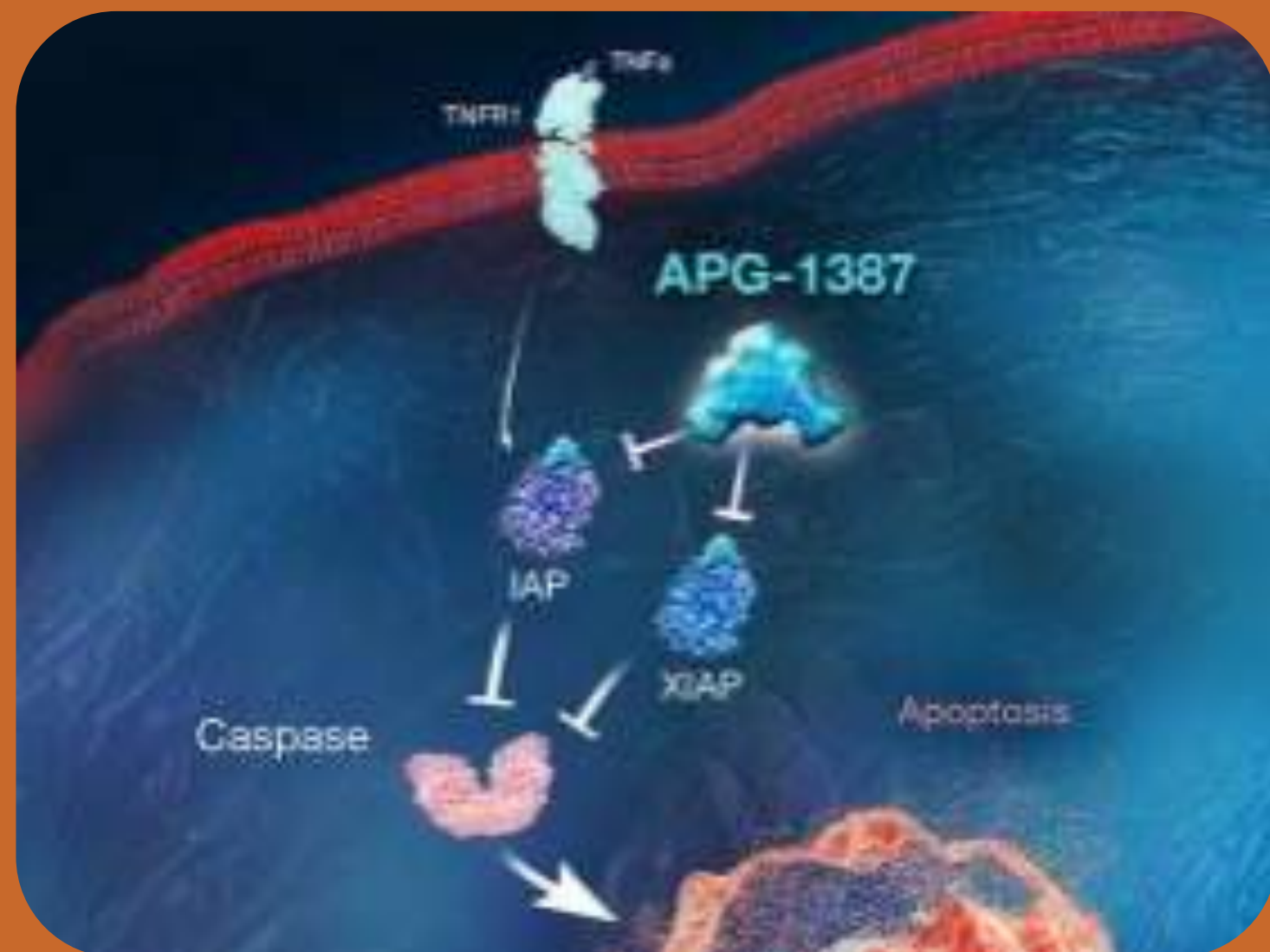
# Safety: Treatment Emergent AEs (TEAEs)





# APG-1387

An Antagonist of IAP/XIAP  
(SMAC Mimetic) Dimmer



## Milestones & Clinical Developments

### CHB Development

- ✓ We have already completed a phase I study for the treatment of patients with CHB.
- ✓ The stage 1 safety evaluation of APG-1387 in combination with Entecavir (ETV) for a phase II study has completed. With well-tolerated safety data, the study moved forward to stage 2, efficacy evaluation of APG-1387 in combination with ETV compared to ETV monotherapy.

### Immuno-Oncology Development

- ✓ A phase I clinical trial in the United States, testing combination of APG-1387 with pembrolizumab, an anti-PD-1 mAb in solid tumors is ongoing. The patient enrollment is expected to be completed in 2022.
- ✓ In China, a phase Ib/II clinical trial testing the combination of APG-1387 with toripalimab (拓益), another anti-PD-1 mAb, in solid tumors, is ongoing as well. The phase Ib patient enrollment has been completed and the trial has entered into phase II.
- ✓ A phase I/II study that aims to investigate the combination of APG-1387 with chemotherapy, Nab-paclitaxel and Gemcitabine for treating advanced pancreatic cancer. First patient has been dosed in March 2021.



# APG-1252

Bcl-2/Bcl-xL inhibitor

Combination use for the treatment of  
solid tumors and hematologic malignancies

Granted an ODD  
for the treatment of SCLC

Potential Best-in-Class Drug

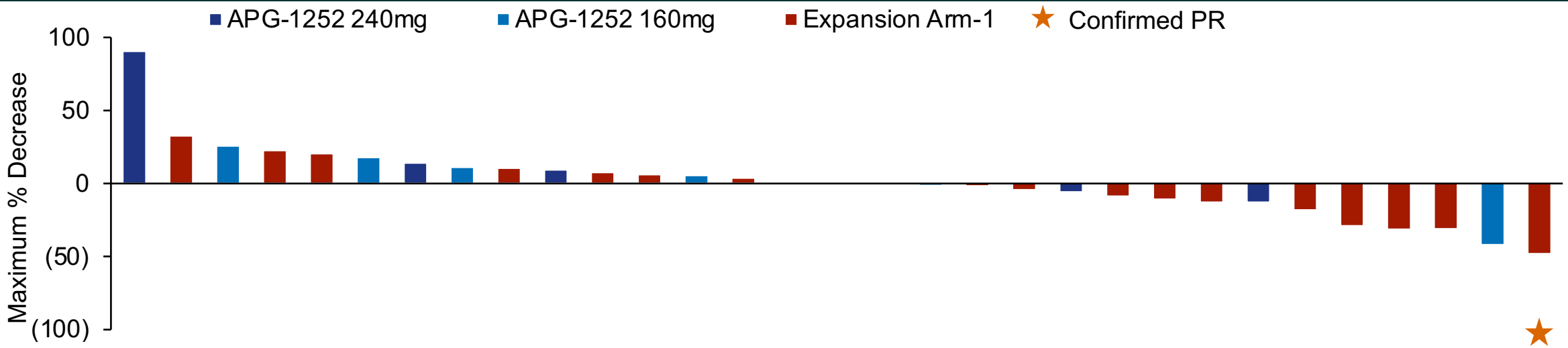




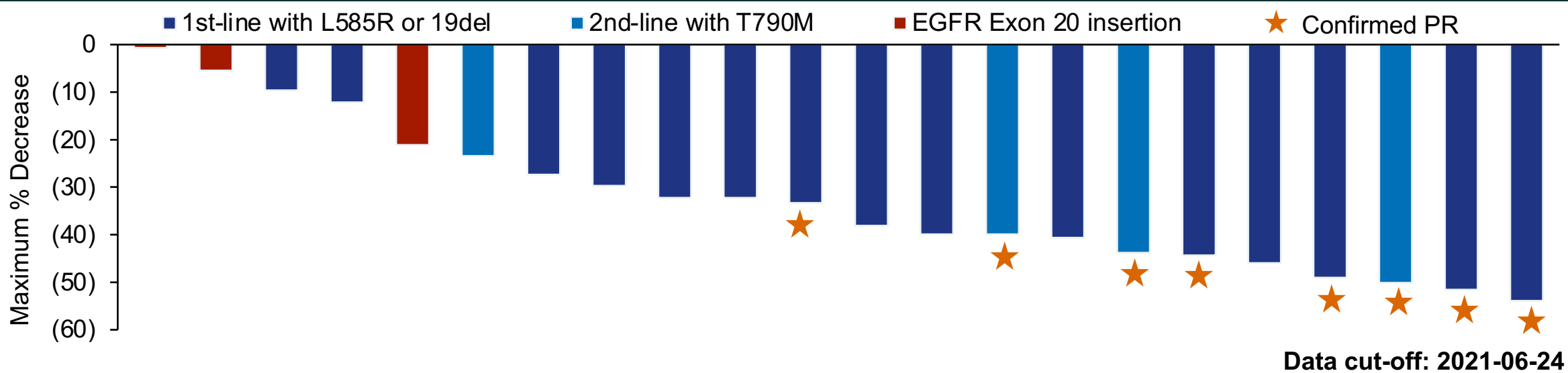
# APG-1252 plus Osimertinib : Efficacy

Best response, n (%)	Dose determination 240mg (n=6)	Dose determination 160mg (n=5)	Expansion Arm-1 (n=20)	Expansion Arm-2 (n=22)
Partial response (unconfirmed)	0 (0.0)	1 (20.0)	3 (15.0)	13 (59.1)
Partial response (confirmed)	0 (0.0)	0 (0.0)	1 (5.0)	8 (36.4)
Stable disease	5 (83.3)	2 (40.0)	13 (65.0)	8 (36.4)
Progressive disease	1 (16.7)	2 (40.0)	4 (20.0)	1 (6.3)
DCR	5 (83.3)	3 (60.0)	16 (80.0)	21 (95.5)

## Dose determination and expansion Arm-1 N=31



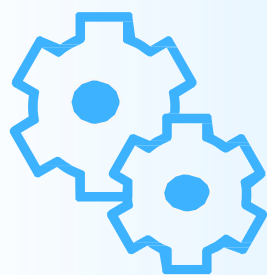
## Expansion Arm-2 N=22



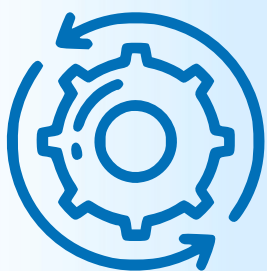
- In dose-escalation: 1 PR in 11 evaluable TKI resistant patients
- In arm 1 of dose-expansion phase: 3 PRs and 13 SDs in 20 evaluable patients with ORR of 15% and DCR of 80%
- In arm 2 of dose-expansion phase, 13 PRs and 8 SDs in 22 evaluable patients, including 3 patients harboring EGFR Exon 20 insertion with ORR of 59.1% and DCR of 95.5%.



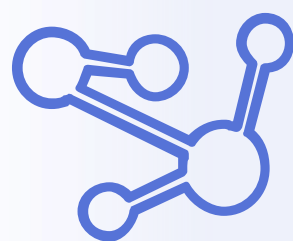
**Combination treatment with APG-1252 and osimertinib at RP2D was safe and feasible.**



**Preliminary synergy and efficacy of both APG-1252 and osimertinib were also observed in some patients with EGFR TKI osimertinib-resistant and naïve NSCLC.**



**In treatment-naïve and second-line patients with the EGFR T790M mutation or Exon 20 insertion, APG-1252 showed similar efficacy compared with navitoclax when combined with osimertinib**



**No significant difference in PK profiles of APG-1252 and osimertinib observed in combination treatment when compared to monotherapy.**



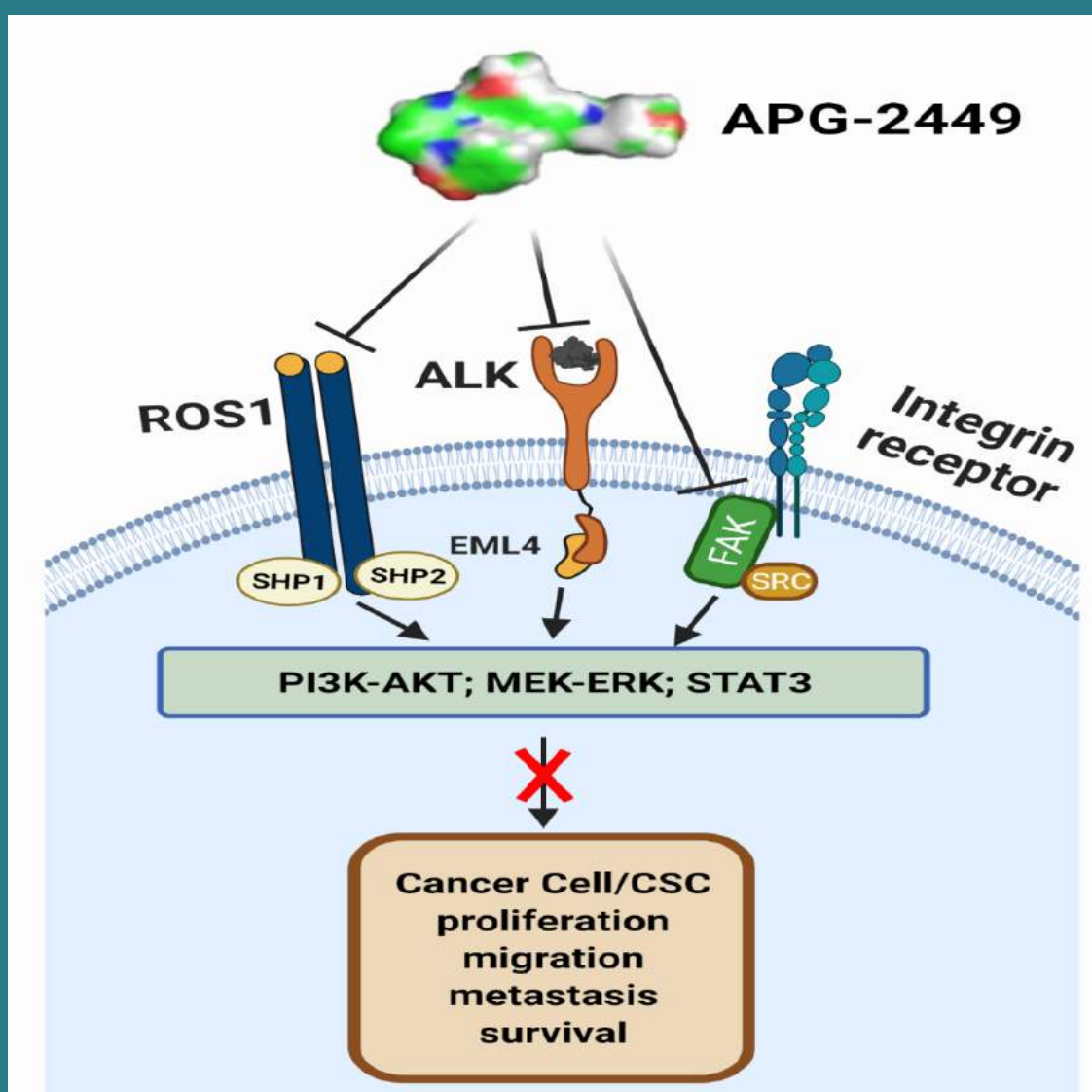
**2021 World Conference on Lung Cancer**  
SEPTEMBER 8 - 14, 2021 | WORLDWIDE VIRTUAL EVENT





# APG-2449

## ALK/FAK/ROS1



## Milestones & Clinical Developments

### APG-2449

- ✓ APG-2449 is a novel, orally active, small molecule FAK/ALK/ROS1 triple ligase kinase inhibitor designed and developed by us. It is the first third-generation ALK inhibitor being developed in China.
- ✓ Pre-clinical data indicated that It is a very potential novel anticancer drug targeting FAK-expressing tumors and/or ALK/ROS1 fusion gene-positive non-small cell lung cancer.
- ✓ APG-2449 dose-dependently inhibited the expression of phosphorylated ALK protein (P-ALK) and its downstream proteins in Ba/F3 cells harboring ALK WT or EML4-ALK L1196M mutation.

### Clinical development of APG-2449 in 2021

- ✓ Dose Escalation study was completed for phase I study in which patients with ALK+ NSCLC or other solid tumor were enrolled. Enrollment is ongoing for Dose Expansion Cohorts for efficacy assessment in different patient population. The clinical result of the phase I study will be published in the coming medical conference. Based on the preliminary efficacy result of phase I study, the engagement with CDE for pivotal phase II registration study design is to be kicked off in 2022.



# Pre-Clinical Assets

EED Selective  
APG-5918



Focused on validated targets  
with clear biomarker, clinical  
indications and fast regulatory  
approval

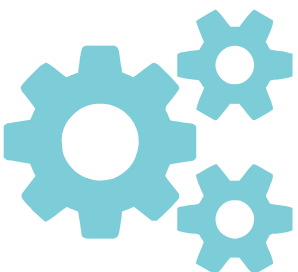


Transformative new  
technology

MDM2-p53 Degradar  
APG-265



High unmet  
medical needs



First-in-class or  
best-in-class potential





# IP Portfolio for Key Clinical Assets

## Key Clinical Assets

## Estimated Patent Expired Year

HQP1351

2035-2041\*

APG-2575

2037-2041\*

APG-115

2035-2041\*

APG-1387

2033-2041\*

APG-1252

2034-2041\*

\*including composition, process, formulation, combination, use, new indication etc; (issued or pending)

Source: Company data Note: All data as of December 31, 2021



# Sustainable Competitive Advantage



Ascentage Pharma focuses on developing therapeutics that inhibit protein-protein interactions to restore apoptosis or programmed cell death

Professional and effective clinical groups in China and the US

- ✓ 30+ IND globally
- ✓ 50+ clinical studies globally

Multiple strategic alliances provide innovation synergy







# Investment Highlights

To discovery and development of innovative first- and best-in-class therapies to address unmet medical needs globally

To become a fully integrated globally-focused biotechnology company.



Global leader in apoptosis targeting therapy with commercial stage product  
Product pipeline with the first- and/or best-in-class potential

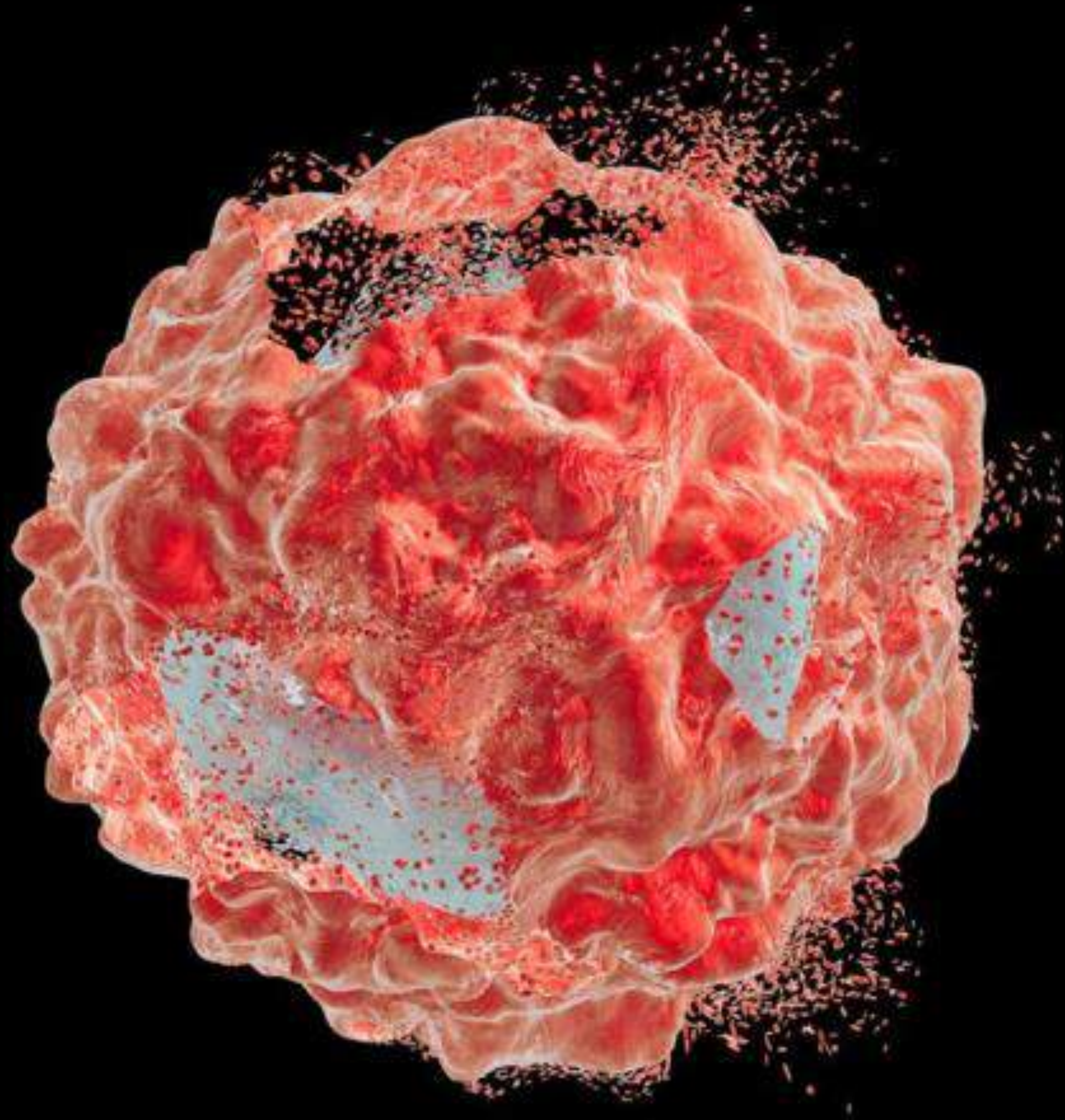
Strong global intellectual property portfolio and compelling combination opportunities

Experienced executive management team and talents

Global collaboration with leading companies and institutions







# Ascentage Pharma Group

*Advancing Therapies That  
Restore Apoptosis*