



APREA
THERAPEUTICS

Precision Oncology Through Synthetic Lethality

November 2024



Forward-Looking Statements

Certain information contained in this presentation includes “forward-looking statements”, within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended, related to our clinical trials, regulatory submissions and strategic plans. We may, in some cases use terms such as “predicts,” “believes,” “potential,” “continue,” “anticipates,” “estimates,” “expects,” “plans,” “intends,” “may,” “could,” “might,” “likely,” “will,” “should” or other words that convey uncertainty of the future events or outcomes to identify these forward-looking statements. The forward-looking statements are based on current beliefs and expectations of our management team that involve risks, potential changes in circumstances, assumptions, and uncertainties. Any or all of the forward-looking statements may turn out to be wrong or be affected by inaccurate assumptions our management team might make or by known or unknown risks and uncertainties. These forward-looking statements are subject to risks and uncertainties including, without limitation, risks related to the success and timing of our clinical trials or other studies and the other risks set forth in our filings with the U.S. Securities and Exchange Commission, including our Annual Reports on Form 10-K and Quarterly Reports on Form 10-Q. Forward-looking statements regarding our product candidates are also subject to additional risks and uncertainties, including without limitation, with respect to: our dependence on additional financing to fund our operations and complete the development and commercialization of our product candidates, and the risks that raising such additional capital may restrict our operations or require us to relinquish rights to our technologies or product candidates; our limited history and preclinical status of the assets we acquired from Atrin Pharmaceuticals Inc.; our business plan or the likelihood of the successful implementation of such business plan; the timing of initiation of planned clinical trials for our product candidates; the future success of such trials; the successful implementation of our research and development programs and collaborations and the interpretation of the results and findings of such programs and collaborations and whether such results are sufficient to support the future success of our product candidates; the success, timing and cost of our anticipated clinical trials for our current product candidates; the timing of initiation, futility analyses, data presentation, reporting and publication and receipt of interim results (including, without limitation, any preclinical results or data); any statements about our understanding of product candidates mechanisms of action and interpretation of preclinical and early clinical results from its clinical development programs and any collaboration studies; and other factors, including legislative, regulatory, political and economic developments not within our control. For all these reasons, actual results and developments could be materially different from those expressed in or implied by our forward-looking statements. You are cautioned not to place undue reliance on these forward-looking statements, which are made only as of the date of this presentation. We undertake no obligation to update such forward-looking statements to reflect subsequent events or circumstances, except to the extent required by law or regulation.

Aprea Therapeutics (NASDAQ: APRE)

Precision Oncology via Novel Synthetic Lethality Therapeutics

All programs address significant unmet medical need, are synergistic with other anticancer therapies, and potentially differentiated in safety and tolerability

WEE1 Inhibitor: APR-1051

- Best in class, next generation
- Well clinically validated target
- Pre-clinical proof-of-principle
 - Highly potent and selective anti-tumor activity
 - Minimal off-target effect
 - Ovarian cancer with Cyclin E over expression (OVCAR-3)
 - Favorable pharmacokinetics
- Phase 1 study – enrolling 4th cohort
- No hematologic toxicity observed
- Safety/efficacy data expected H1 2025

ATR Inhibitor: ATRN-119

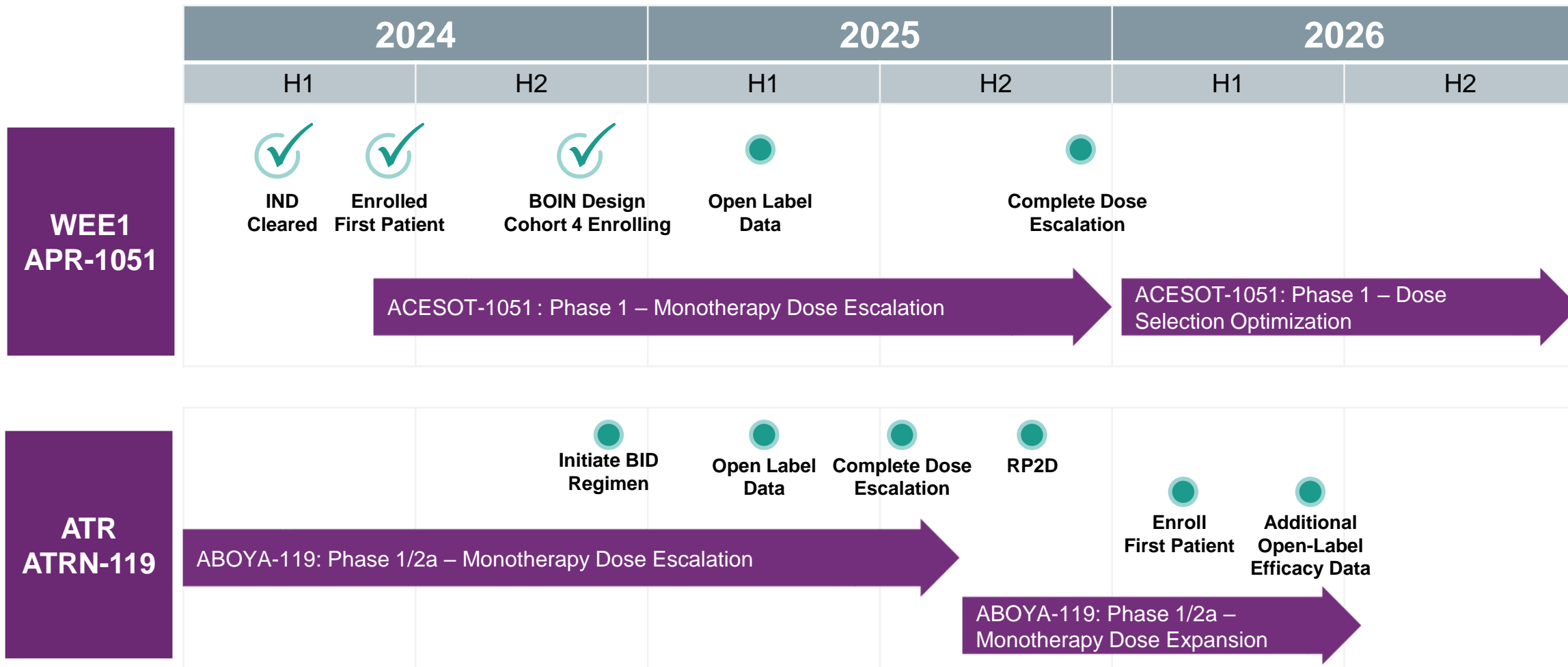
- First macrocyclic ATR inhibitor
- Highly selective with continuous daily dosing
- Pre-clinical proof-of-principle
 - Anti-tumor activity at nanomolar concentration
 - Preserved hematologic safety profile
- Phase 1/2a – ongoing
 - Approaching therapeutic dose
 - No hematologic toxicity observed
 - BID regimen added
 - Readout H2 2025

DDR Inhibitor: Undisclosed

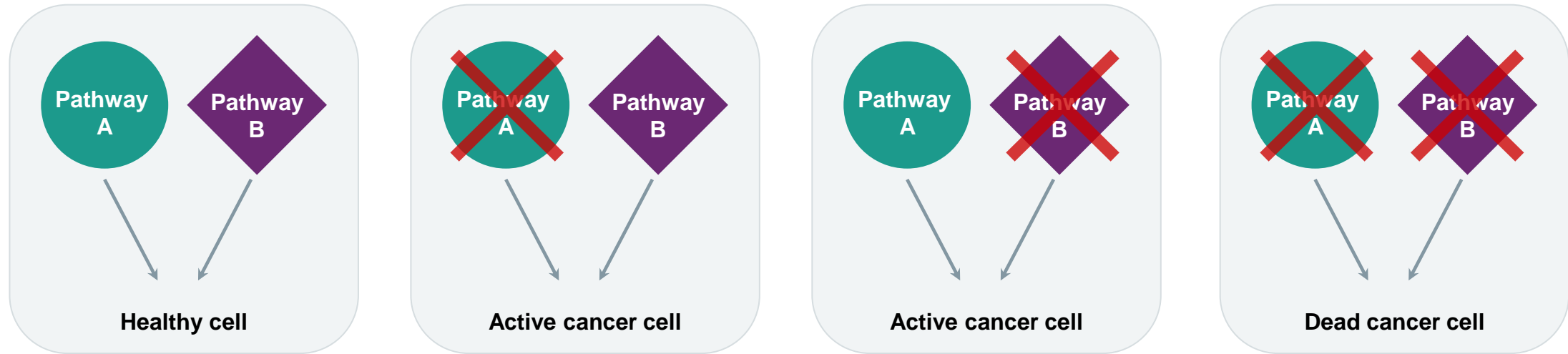
- Lead optimization
- Target identified from our RepliBiom discovery platform
- Identify lead candidate by year-end 2024

Robust DDR Development Pipeline Milestones

2024-2026 Anticipated Clinical Milestones



Synthetic Lethality



- Cancer cell death only upon the loss of function of two codependent pathways
- DNA Damage Response (DDR) allows cells to pause and self repair during replication (mitosis) overcoming affected pathway
- Inhibition of DDR leads to mitotic catastrophe and cell death
- ATR and WEE1 inhibitors are integral to stopping DDR and are emerging targets for cancer cell death
- Builds on scientific innovation led by Aprea founder and key personnel¹

Strong Drug Development and Commercial Expertise

Leaders in Synthetic Lethality and Targeted Therapy

Management

<p>Oren Gilad, Ph.D. President and CEO</p>	<p>John P. Hamill Sr. Vice President and CFO</p>	<p>Philippe Pultar, MD Head of WEE1 Clinical Development</p>	<p>Ze'ev Weiss, CPA, B.Sc. Chief Business Advisor</p>	<p>Mike Carleton, Ph.D. Translational Medicine Advisor</p>	<p>Brian Wiley SVP, Corporate Strategy</p>
					

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<p>Richard Peters, M.D., Ph.D. Chairman of the Board</p>	<p>Oren Gilad, Ph.D. President and CEO</p>	<p>Jean-Pierre Bizzari, M.D. Director</p>
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WEE1 Inhibitor: APR-1051

Potentially Differentiated
Clinical Stage WEE1i

WEE1 – Clinically Validated Target: An Unmet Medical Need

Multiple Phase 2 Studies Show Substantial Single-Agent Activity Of A WEE1 Inhibitor (Adavosertib¹)

Phase 2 Study	Indication	Evaluable Patients N	ORR		PFS
NCT03668340 ²	Recurrent uterine serous carcinoma	34	29.4% 1 CR 9 PR		mPFS – 6.1 months PFS6 – 16 Pt (47.1%)
IGNITE ³	Recurrent high-grade, serous ovarian cancer with CCNE1 overexpression with (Cohort 1) and without (Cohort 2) gene amplification	79 Cohort 1 - 21 Cohort 2 - 58	Cohort 1: 38% 7 PR 1 CA125	Cohort 2: 45% 3 CR 18 PR 5 CA125	No PD for ≥ 18 weeks: Cohort 1: 53% Cohort 2: 48%
NCT03253679 ⁴	Refractory solid tumors harboring CCNE1 amplification	30 Ovarian - 14, Breast - 3, Uterine - 3, Other - 10	All Pt: Ovarian Pt:	27% (8 PR) 36% (5 PR)	mPFS: All Pt: 4.1 Ovarian Pt: 6.3

WEE1 Inhibitors have been associated with significant Grade ≥3 hematological, GI and CV toxicities

The Need – a highly efficient WEE1 inhibitor with an improved safety and tolerability profile

Examples for Phase 2 Studies with Adavosertib as monotherapy

¹ AZD-1775. AstraZeneca announced in July 2022 the discontinuation of development of AZD-1775 due to its tolerability profile

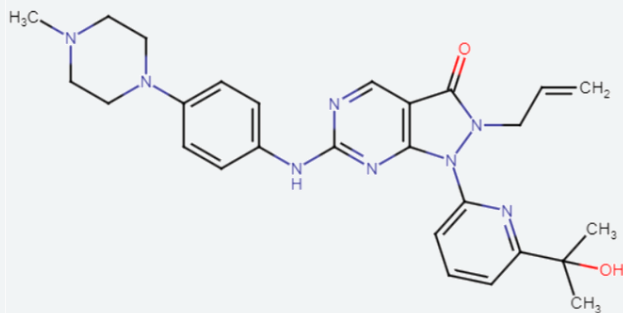
² Phase II Study of the WEE1 Inhibitor Adavosertib in Recurrent Uterine Serous Carcinoma, Liu et al, *J Clin Oncol.* 2021;39:1531–9.

³ IGNITE: A phase II signal-seeking trial of Adavosertib targeting recurrent high-grade, serous ovarian cancer with cyclin E1 overexpression with and without gene amplification. Au-Yeung et al, *Int J Gynecol Cancer* 2023;33(Suppl 4):A1–A278

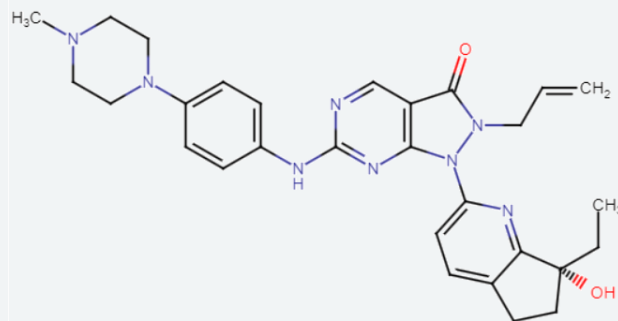
⁴ Multicenter Phase II Trial of the WEE1 Inhibitor Adavosertib in Refractory Solid Tumors Harboring CCNE1 Amplification, Fu et al, *J Clin Oncol.* 2023 Mar 20; 41(9): 1725–1734.

APR-1051 Potentially Best in Class WEE1 Inhibitor

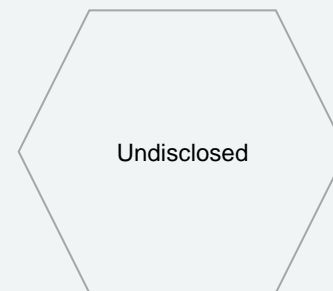
Potent and Structurally Differentiated, with High Selectivity to Limit Off-target Toxicity



AstraZeneca
Adavosertib (AZD-1775)



Zentaris
Azenosertib (ZN-c3)



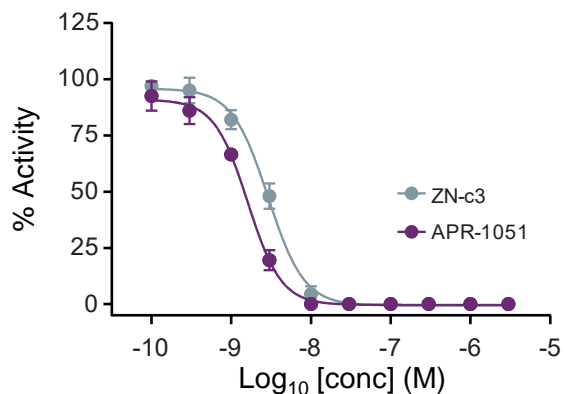
Aprea
APR-1051

APR-1051: Potentially Best-in-Class WEE1 Inhibitor

Potent WEE1i that Does Not Substantially Inhibit PLK1, PLK2 or PLK3

On-target WEE1 activity

WEE1 IC₅₀ Determination

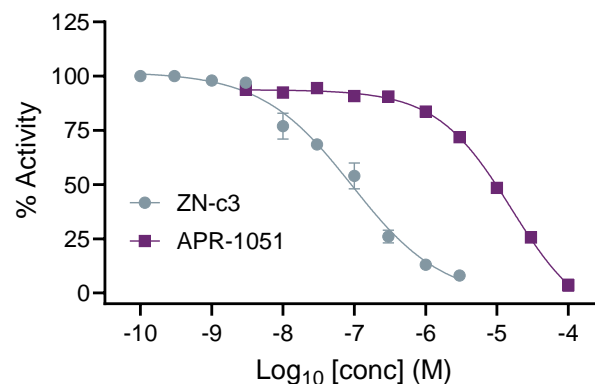


ZN-c3 = 2.9 nM
APR-1051 = 1.6 nM

WEE1 Inhibition
IC₅₀ similar to ZN-c3

Off-target inhibition of PLK1, PLK2 and PLK3

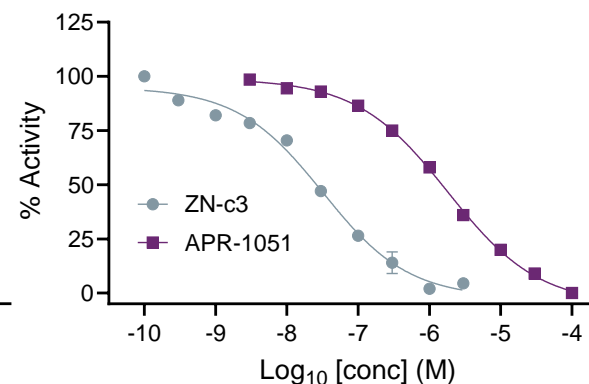
PLK1 IC₅₀ Determination



ZN-c3 = 92.1 nM
APR-1051 = 15,900 nM

PLK1 Inhibition
IC₅₀ >150-fold difference

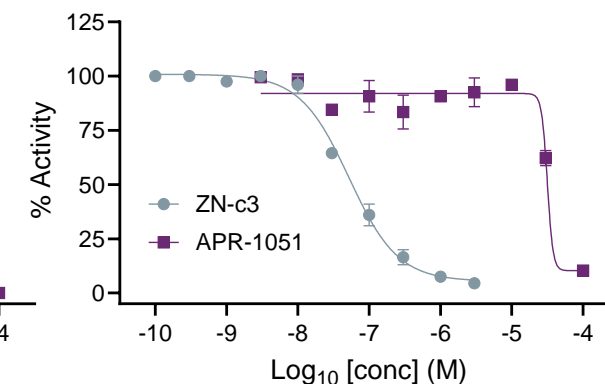
PLK2 IC₅₀ Determination



ZN-c3 = 32.0 nM
APR-1051 = 1,800 nM

PLK2 Inhibition
IC₅₀ >50-fold difference

PLK3 IC₅₀ Determination



ZN-c3 = 52.2 nM
APR-1051 = 31,600 nM

PLK3 Inhibition
IC₅₀ >600-fold difference

Studies Show PLK1 Suppression is Associated with Sepsis-Induced Loss of Intestinal Barrier Function

SCIENTIFIC REPORTS

OPEN **PLK1 protects against sepsis-induced intestinal barrier dysfunction**

Received: 25 August 2017
Accepted: 4 January 2018
Published online: 18 January 2018

Yingya Cao, Qun Chen, Zhen Wang, Tao Yu, Jingyi Wu, Xiaogan Jiang, Xiaoju Jin & Weihua Lu

Sepsis and sepsis-associated intestinal barrier dysfunction are common in intensive care units, with high mortality. The aim of this study is to investigate whether Polo-like kinase 1 (PLK1) ameliorates sepsis-induced intestinal barrier dysfunction in the intestinal epithelium. The mouse intestinal barrier was disrupted after Lipopolysaccharide (LPS) injection due to intestinal epithelial cell apoptosis and proliferation inhibition, accompanied by decreased PLK1. In HT-29 intestinal epithelial cells, LPS stimulation induced cell apoptosis and inhibited cell proliferation. Overexpression of PLK1 partly rescued the apoptosis and proliferation inhibition in HT29 cells caused by LPS. Finally, LPS stimulation promoted the reduction of PLK1, resulting in apoptosis and proliferation inhibition in intestinal epithelial cells, disrupting the intestinal epithelial barrier. These findings indicate that PLK1 might be a potential therapeutic target for the treatment of sepsis-induced intestinal barrier dysfunction.

Cao et al. *Molecular Medicine* (2022) 28:163
<https://doi.org/10.1186/s10020-022-00597-z>

Molecular Medicine

RESEARCH ARTICLE **Open Access**

Check for updates

PLK1 protects intestinal barrier function during sepsis by targeting mitochondrial dynamics through TANK-NF-κB signalling

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journal homepage: www.elsevier.com/locate/cytokine

PLK1 protects intestinal barrier function in sepsis: A translational research

Ying-Ya Cao^{a,b,1}, Juan Li^{c,1}, Qun Chen^{a,b,1}, Yu-Peng Qi^{a,b,1}, Qian-Cheng Xu^{a,b}, Jia-Min He^{a,b}, Zhen Wang^d, Wei-Hua Lu^{a,b,*}

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Received: 15 February 2021 | Revised: 25 April 2021 | Accepted: 16 May 2021
DOI: 10.1002/cbin.11633

RESEARCH ARTICLE

Cell Biology International WILEY

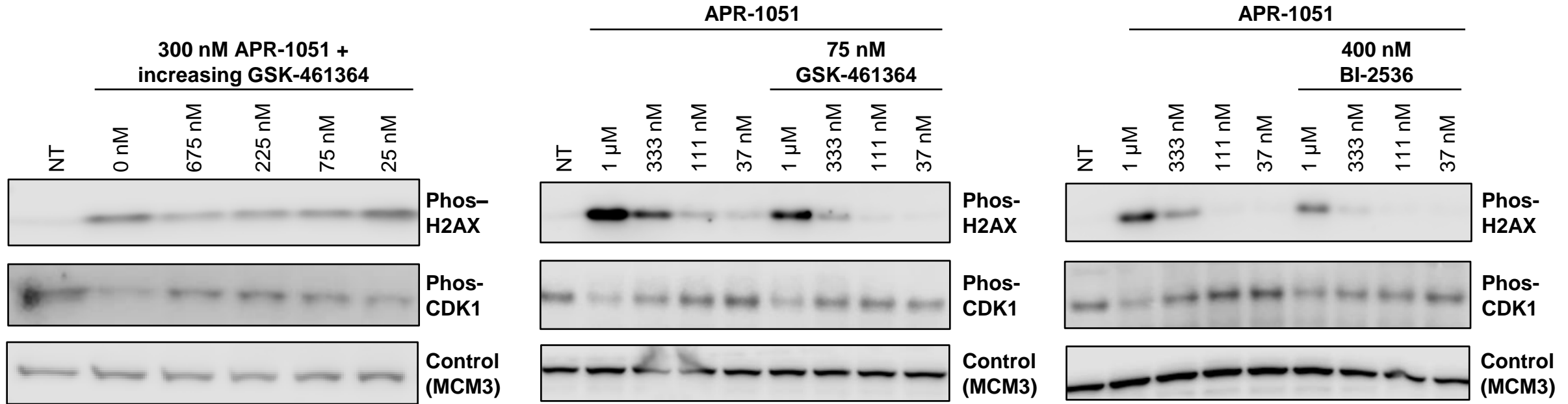
LncRNA DANCR improves the dysfunction of the intestinal barrier and alleviates epithelial injury by targeting the miR-1306-5p/PLK1 axis in sepsis

Zhen Wang¹ | Changshun Zhong¹ | Yingya Cao¹ | Hongzhen Yin¹ | Guanggui Shen¹ | Weihua Lu¹ | Wei Ding²

- 1 PLK1 protects against sepsis-induced intestinal barrier dysfunction, Cao et al, *Scientific Reports* (2018).
- 2 PLK1 protects intestinal barrier function in sepsis: A translational research, Cao et al, *Cytokine* (2023).
- 3 PLK1 protects intestinal barrier function in sepsis: A translational research, Cao et al, *Molecular Medicine* (2022).
- 4 LncRNA DANCR improves the dysfunction of the intestinal barrier and alleviates epithelial injury by targeting the miR-1306-5p/PLK1 axis in sepsis, Wang et al., *Cell Biology International* (2021).

PLK1 Inhibition Reduces Cytotoxic Effects of WEE1 Inhibitors

Minimal PLK1 Co-inhibition Enables Full Therapeutic Potential Of APR-1051



Dose range of PLK inhibitor GSK-461364 in combination with a single dose of APR-1051 in OVCAR-3 cells

PLK inhibitor, GSK-461364 interferes with the effects of APR-1051 in OVCAR-3 cells

PLK inhibitor, BI-2536, interferes with the effects of APR-1051 in OVCAR-3 cells

APR-1051 Preclinical Data Highlight Potentially Favorable PK Properties

Based on Pre-clinical Studies, APR-1051 Shows Potentially Favorable Drug Exposure



	APR-1051 ¹	Zentalis Azenosertib (ZN-c3) ²			AstraZeneca Adavosertib (AZD-1775) ²		
Dose (mg/kg/d)	10	20	40	80	20	40	80
C _{max} ng/ml	1,460	1,167	1,997	5,100	635	2,460	4,703
T _{max} hr	3	1	1	1	1	1	1
AUC ₀₋₂₄ , ng*hr/ml	16,739	4,863	17,088	39,722	1,494	6,313	13,408

Note: Head-to-head studies have not been conducted

¹ Data from an exploratory formulation of APR-1051 administered to fasted Balb/c mice

² Data from study in A-427 NSCLC xenograft model as reported in Zentalis Corporate Overview, March 2022

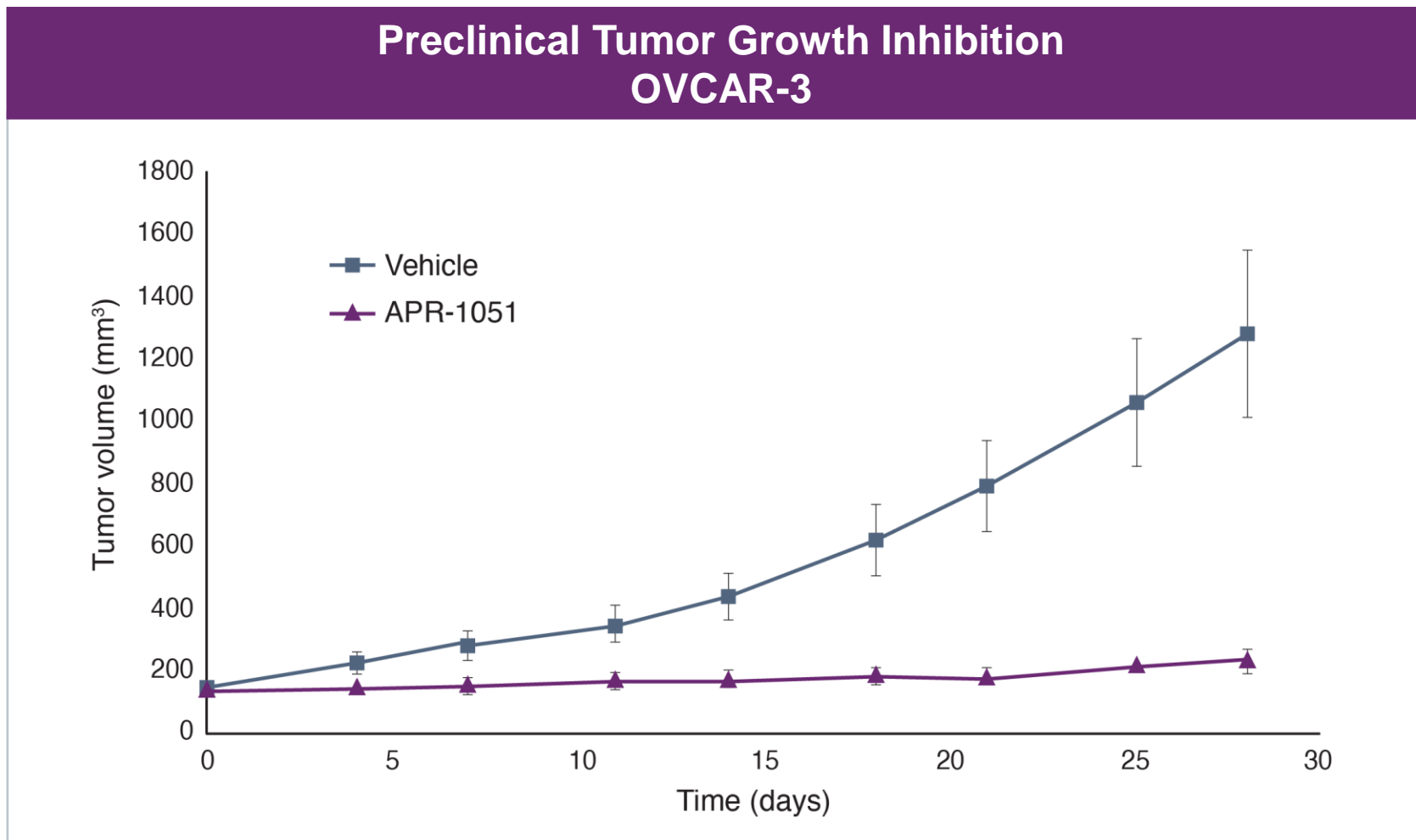
APR-1051 Shows Negligible Inhibition of hERG Channels

QT prolongation AEs were reported with some competitor WEE1 inhibitors

In vitro kinase assays IC50		Average WEE1 kinase IC50	hERG inhibition IC50		Average hERG IC50	Fold difference between kinase IC50 and hERG IC50
LanthaScreen (Thermo)	Hotspot (Reaction Biology)	21.8 nM	HEK293 cells (Medicilon)	CHO cells (WuXi)	4,750 nM	hERG inhibition over WEE1 kinase inhibition
2.2 nM	41.4 nM		8,840 nM	660 nM		218-fold (range 16- to 3,946-fold)

No ECG changes related to APR-1051 were observed in IND enabling studies
Potential absence of QT prolongation at doses that significantly inhibit WEE1

APR-1051 Demonstrated Potentially Compelling Anti-tumor Activity

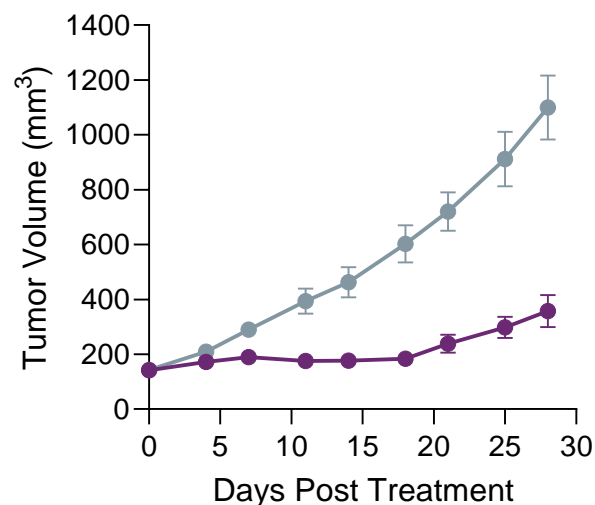


N=7 mice per group, APR-1051, 30 mg/kg/day

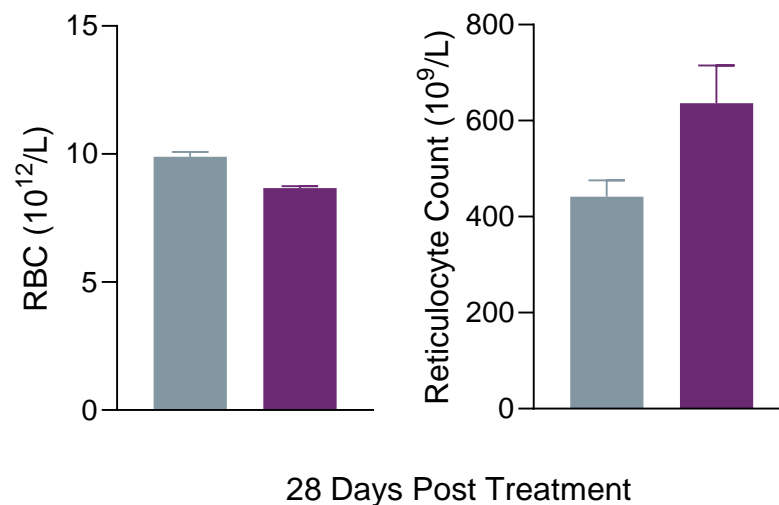
APR-1051 Suppresses Tumor Growth with Little Effect on RBCs and Body Weight

OVCAR Xenograft Tumor Model in Female Nude Mice

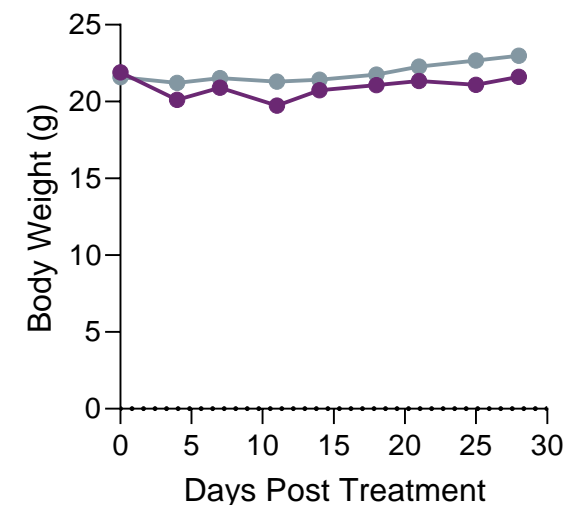
Tumor Volume (mm³) (Mean±SEM)



Heme Toxicity (Mean±SEM)



Body Weight (g) (Mean±SEM)



Vehicle
10mL/kg, PO,
QD x 28 days

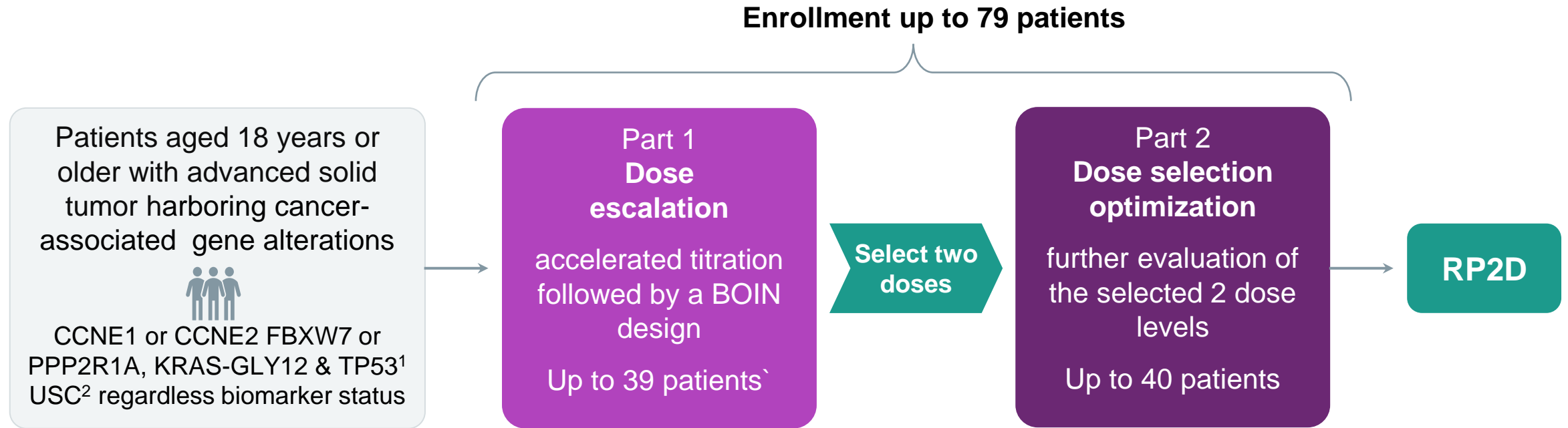
APR-1051
15mg/kg, PO, BID,
5 on/2 off x 28 days

**WEE1 Inhibitor:
APR-1051**

**ACESOT-1051:
Clinical Proof-of-Concept**

ACESOT-1051: Clinical Study Overview

Multi-center, Open-Label Phase1 Single-Agent Dose Escalation and Dose Selection Optimization



Oral APR-1051 is administered once-daily for 28-day cycles


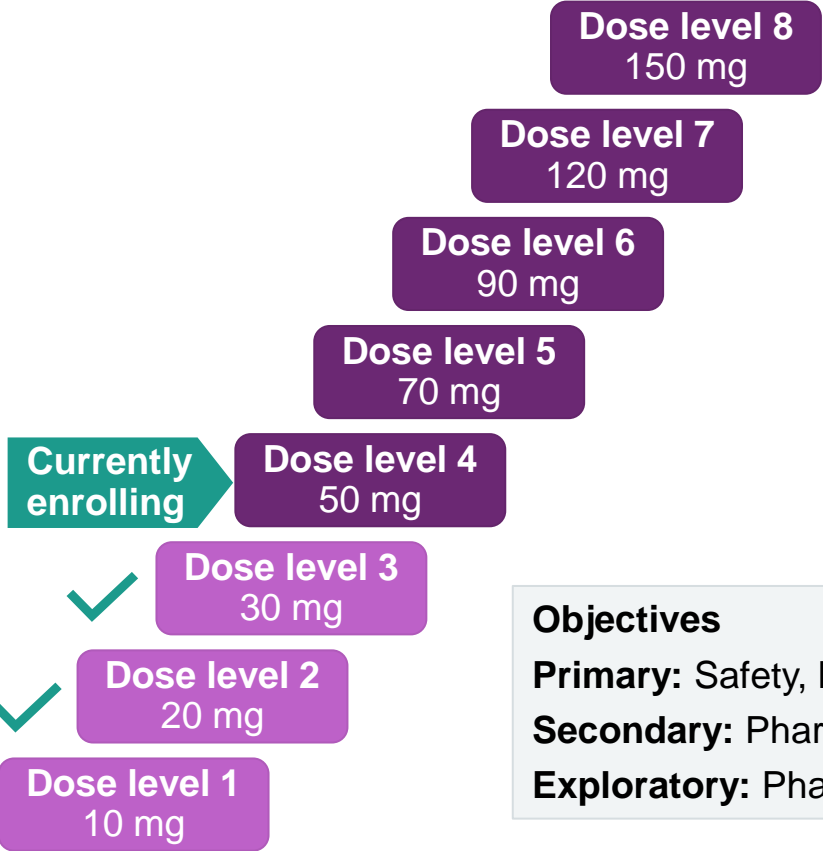
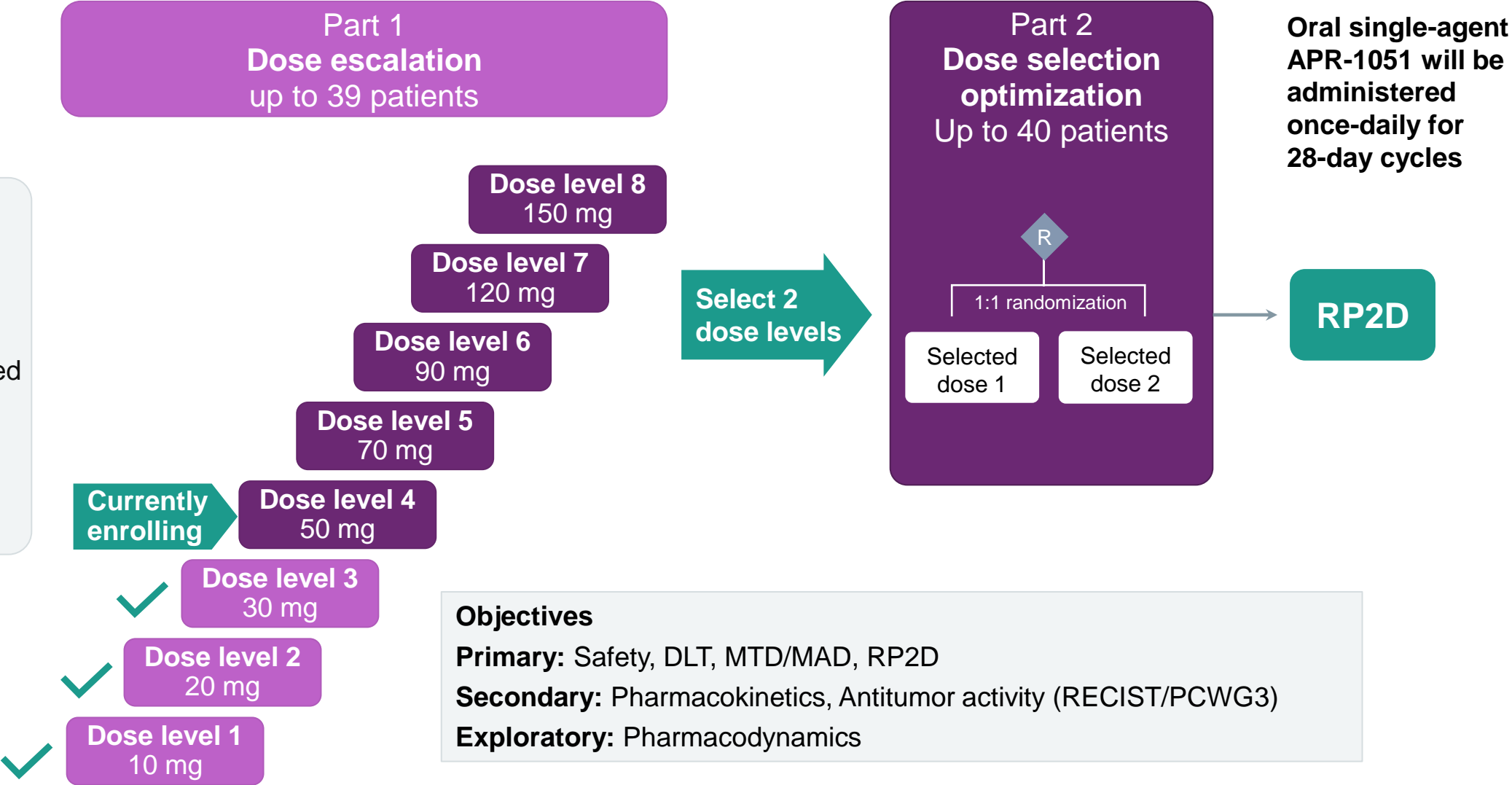
Primary objectives: Safety, DLT, MTD/MAD, RP2D

Secondary objectives: Pharmacokinetics, Antitumor activity (RECIST/PCWG3)

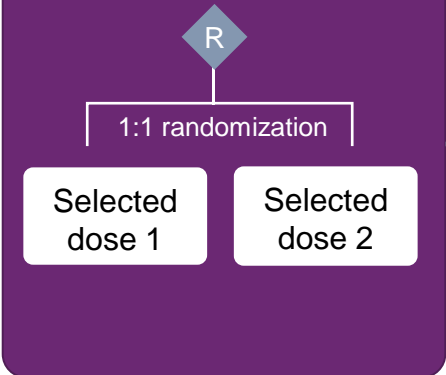
Exploratory objectives: Pharmacodynamics

ACESOT-1051: Study Design

Eligible patients
 ≥ 18 yo with advanced solid tumor harboring cancer-associated gene alterations

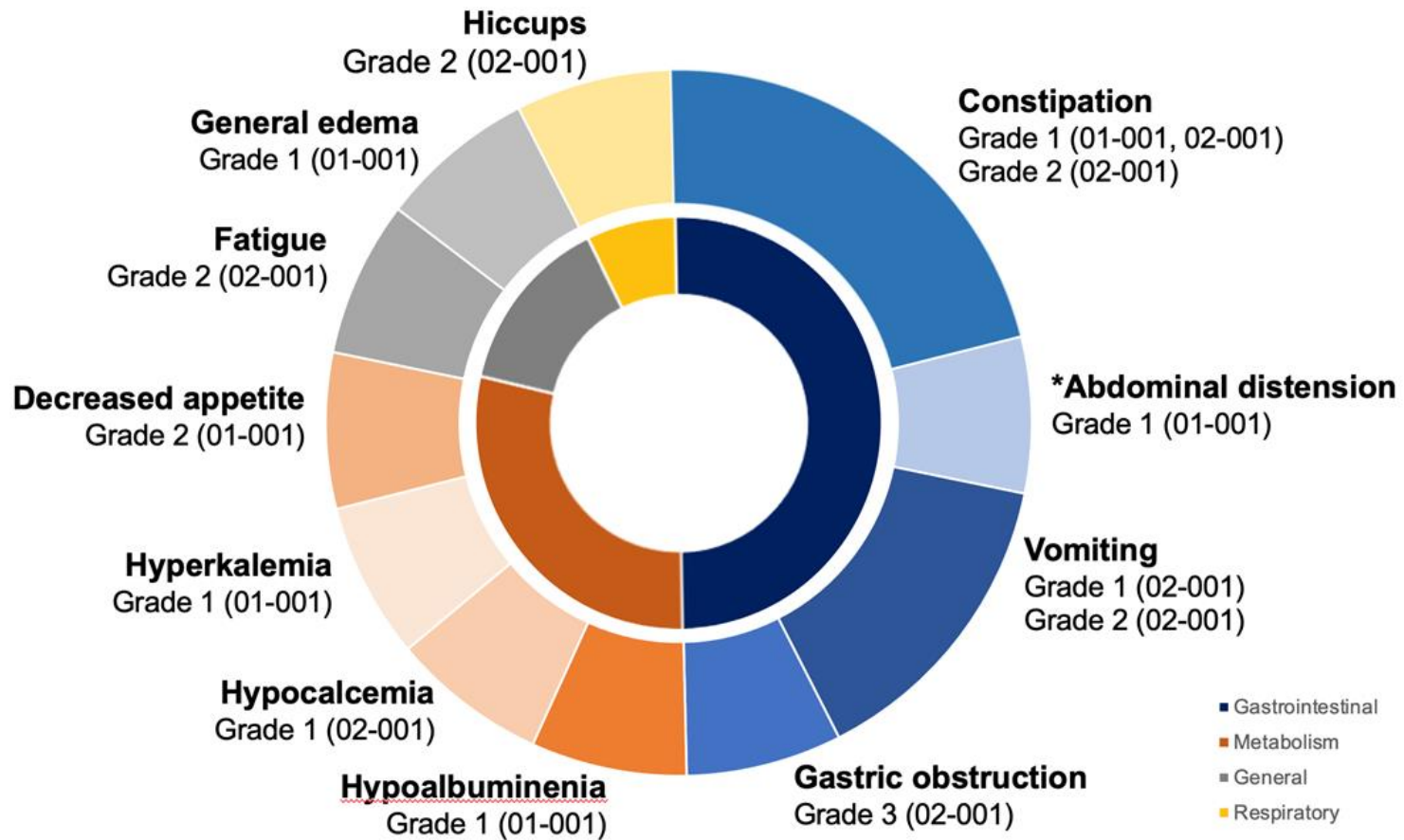
Select 2 dose levels



- Accelerated titration; 1-6 patients per dose level
- BOIN design; 3-12 patients per dose level
- ✓ = cleared

ACESOT-1051: Summary of all-cause AEs

Update - October 7, 2024



APR-1051: Summary

Potential best in class WEE1 inhibitor

- High potency for WEE1 inhibition in vitro
- Low off-target inhibition of the PLK family of kinases
- Suppresses growth of CCNE1-amplified HGSOC xenografted tumors and relatively well-tolerated in mice

ACESOT-1051: First-In-Human Study (NCT06260514)

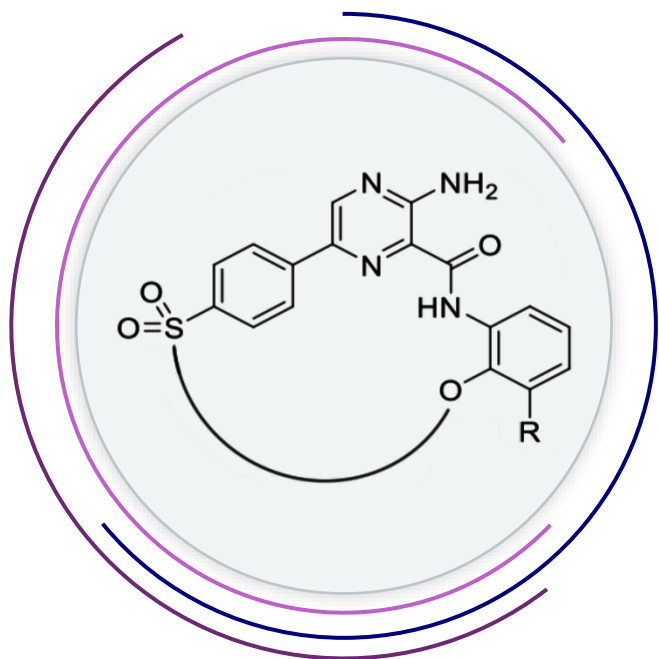
- Accelerated titration dose escalation completed, fourth cohort now enrolling
- Safe and well tolerated to date with no hematologic toxicity observed
- Biomarker-driven study in patients with advanced/metastatic solid tumors
- Targeted gene alterations include CCNE1, CCNE2, FBXW7, PPP2R1A, or KRAS-G12 with TP53
- Open label data expected H1 2025
- MD Anderson Cancer Center lead study site, with up to 10 sites in U.S.

**ATR Inhibitor:
ATRN-119**

**Potentially Differentiated
Clinical Stage ATRi**

ATRN-119: First and Only Macrocyclic ATR Inhibitor¹

Macrocycles: A Well-Evolved Approach for PIK-Related Kinase Inhibition (e.g., rapamycin and mTOR)²⁻⁴



Benefits of Unique Cyclic Skeleton Structure vs Competitors' First-Generation Acyclic Structure

Macrocycles restrict number of conformations formed for increased selectivity

Potential advantages for ATRN-119:

- Increased selectivity → Improved tolerability
- Improved tolerability → More efficacious dosing

¹ Based on company knowledge

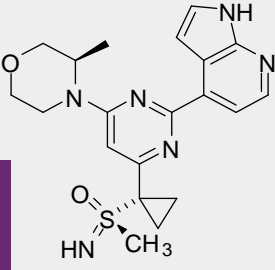
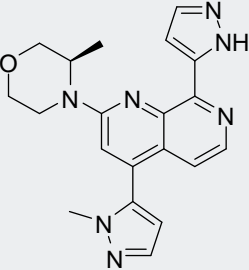
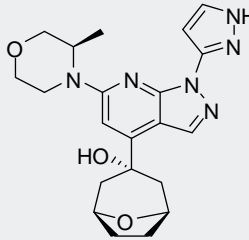
² Brown, EJ et al, (1994) *Nature*

³ Brown, EJ et al, (1995) *Nature*

⁴ Brown, EJ and SL Schreiber, (1996) *Cell*

Reported Challenges with Other ATR Inhibitors

First Generation Compounds Share Similar Core, Backbone, Toxicity, and Intermittent Dosing Schedule

	 <p>AstraZeneca AZD6738^{1,2}</p>	 <p>Bayer BAY1895344³</p>	 <p>Repare RP-3500⁴</p>
Route of administration	Oral	Oral	Oral
MTD/RP2 dose schedule	160mg BID, 2-weeks-on, 2-weeks-off , or: Continuous dosing ¹	40mg BID, 3-days-on/4-days-off	160mg QD, 3-days-on/4-days-off
Main Grade ≥3 hematological toxicities	Patriot 1, Escalation Phase, 160mg, BID ² : Anemia (1/6, 17%) Patriot 2, Expansion Phase ¹ : Fatigue, anemia, nausea, and thrombocytopenia (not differentiated) (4/6, 67%) with continuous dosing (3/15, 20%) with 2-week-on, 2-week-off	Anemia (2/2, 100%) Neutropenia (1/2, 50%)	Anemia (25/95, 26%) Neutrophil count decreased (13/95, 14%) Platelet count decreased (7/95, 7%)

Note: Head-to-head studies with ATRN-119 have not been conducted

¹ Phase I study of ATR inhibitor, AZD6738, as monotherapy in advanced solid tumors (PATRIOT part A, B), Dillon et al, *Ann. Oncol.* 2019;30 (supplement 5), Pages v165-v166


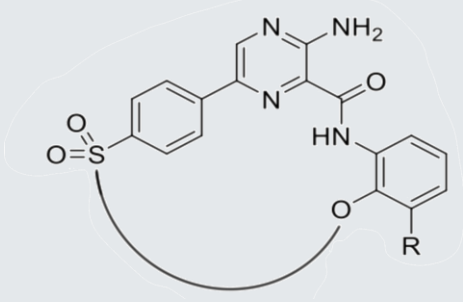
² Poster CT084: A Phase I dose-escalation study of ATR inhibitor monotherapy with AZD6738 in advanced solid tumors (PATRIOT Part A), AACR 2017

³ First-in-Human Trial of the Oral Ataxia Telangiectasia and RAD3-Related (ATR) Inhibitor BAY 1895344 in Patients with Advanced Solid Tumors, Yap et al, *Cancer Discov.* 2021;11:80-91 and 2019 ASCO Poster, De-Bono et al.

⁴ Camonsertib in DNA damage response-deficient advanced solid tumors: phase 1 trial results, Yap et al. *Nature Medicine* 2023;29:1400-1411

ATRN-119: Potential Best-in-Class Oral ATR Inhibitor

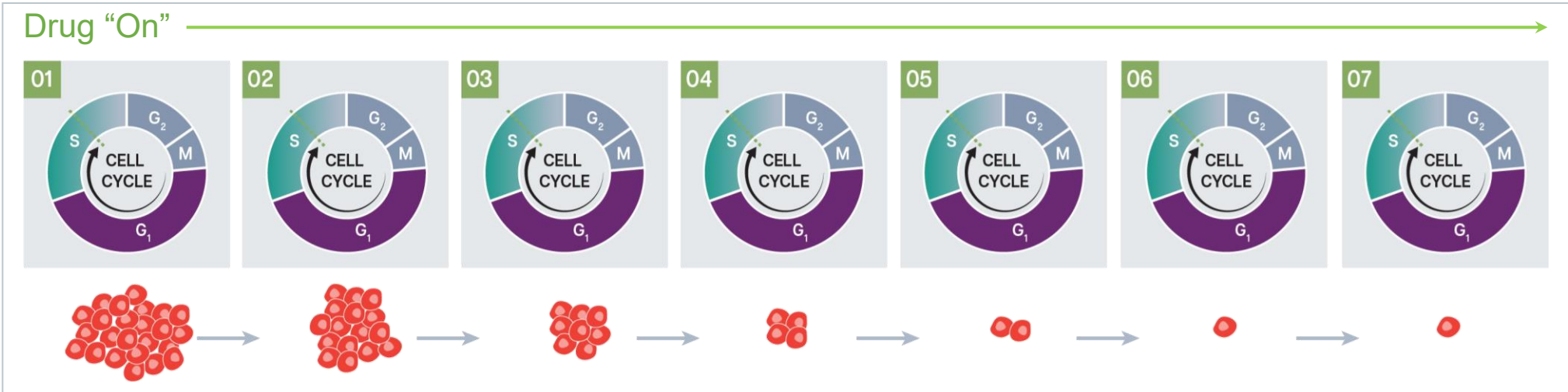
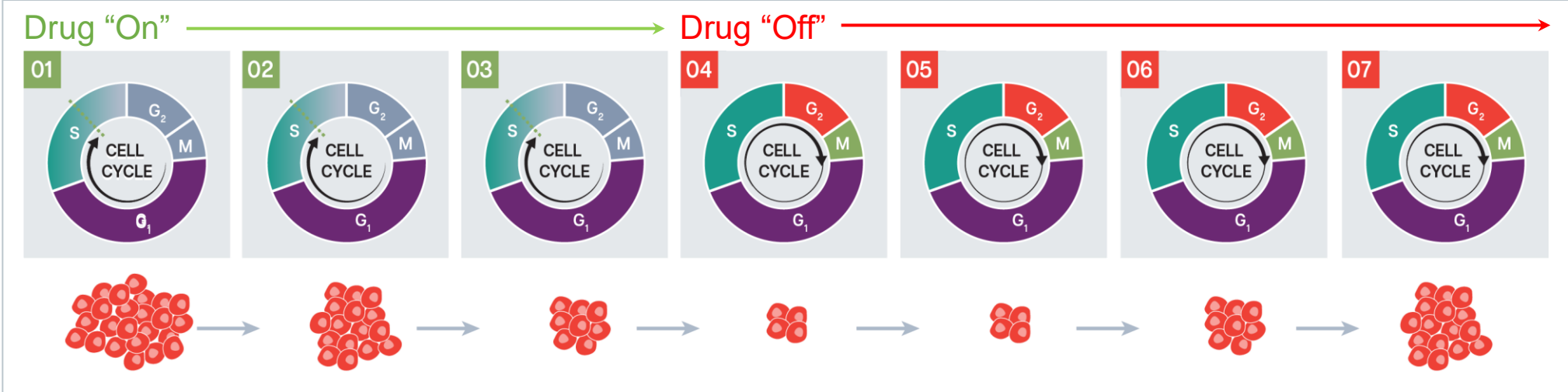
Structurally Differentiated Core, Backbone and Toxicity Profile

	 
Route of administration	Oral
Dosing regimen	Continuous daily dosing (RP2D TBD in Phase 1) ¹
Hematological toxicities in preclinical studies	<ul style="list-style-type: none">• Small magnitude and within normal range hematological changes in 28-day GLP tox dog study• Significantly less toxicity in head-to-head comparative tolerability study vs other clinical stage ATRi²

ATRN-119 potentially the preferred ATRi both as a single agent and in combination with standard-of-care therapies

ATRN-119 Daily Dosing Supports Potential Continuous Tumor Suppression

Intermittent Dosing May Lead to Tumor Resistance



**ATR Inhibitor:
ATRN-119**

**ABOYA-119:
Clinical Proof-of-Concept**

ABOYA-119: Phase 1/2a - Study Overview

A Phase 1/2a, Open-Label, Safety, Pharmacokinetic, and Preliminary Efficacy Study of Oral ATRN-119 in Patients with Advanced Solid Tumors

Sites:

5 US sites for dose escalation

- University of Pennsylvania
- Mary Crowley Cancer Research
- University Hospitals Cleveland Medical Center
- Yale Cancer Center
- NEXT Oncology

Patient enrollment:

Up to 132 patients in total

- Escalation phase: up to 72 patients
- Expansion phase: up to 60 patients

ATRN-119 is an oral ATR kinase inhibitor given daily

Patient population:

Male or female subjects 12 years of age or older with solid tumors harboring specific DDR mutations per NGS

Part 1

Up to 72 patients
Dose escalation
(9 dose levels)
3+3 design



Part 2

Up to 60 patients
Dose expansion,
after MTD / RP2D
established

Objectives:

Primary

- Safety, MTD, RP2D
- Pharmacokinetics

Secondary

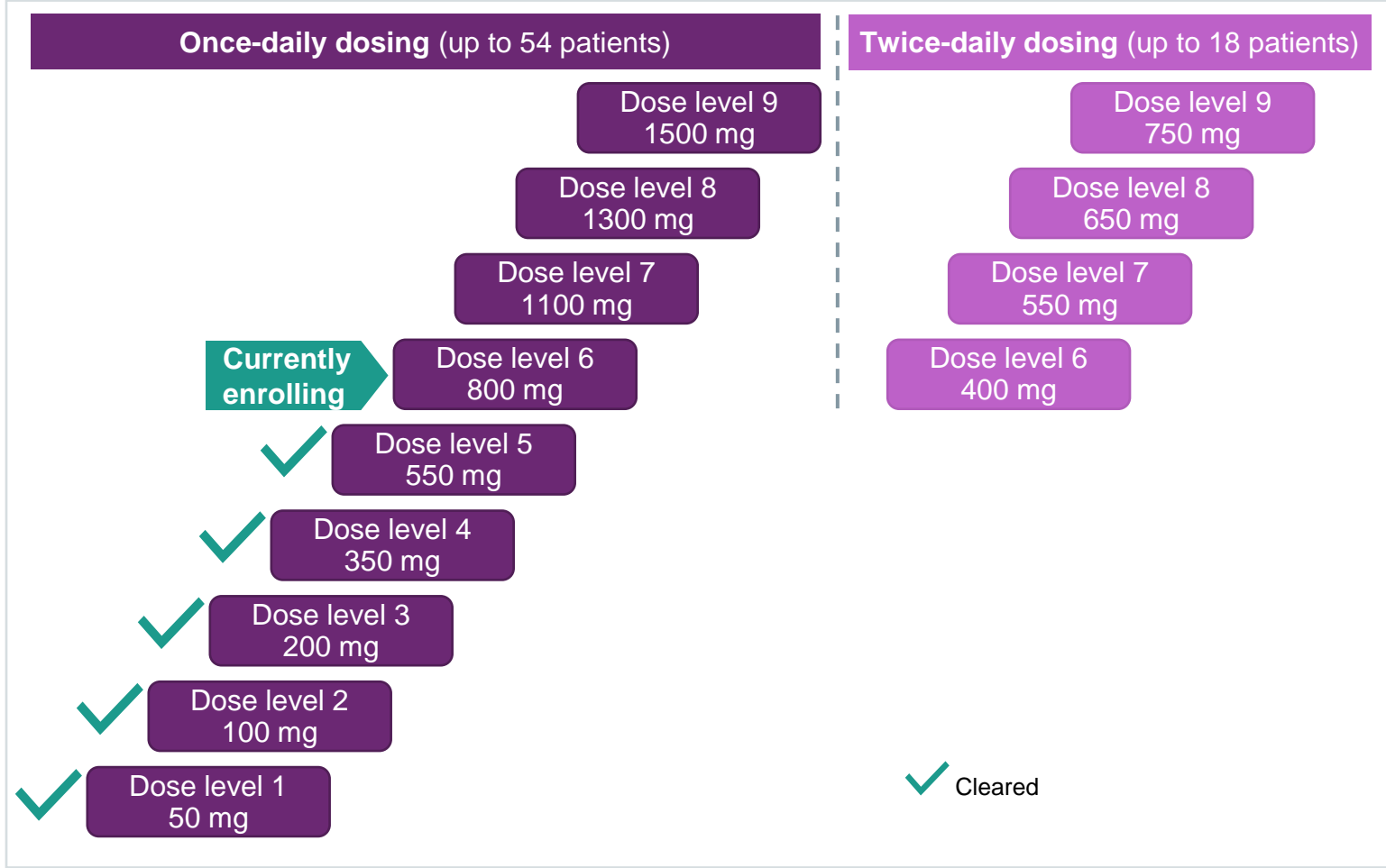
- Antitumor activity (RECIST/PCWG3)

Exploratory

- Association between identified mutations and clinical outcomes

ABOYA-119: Clinical Study Design

Part 1. Dose escalation (up to 72 patients)



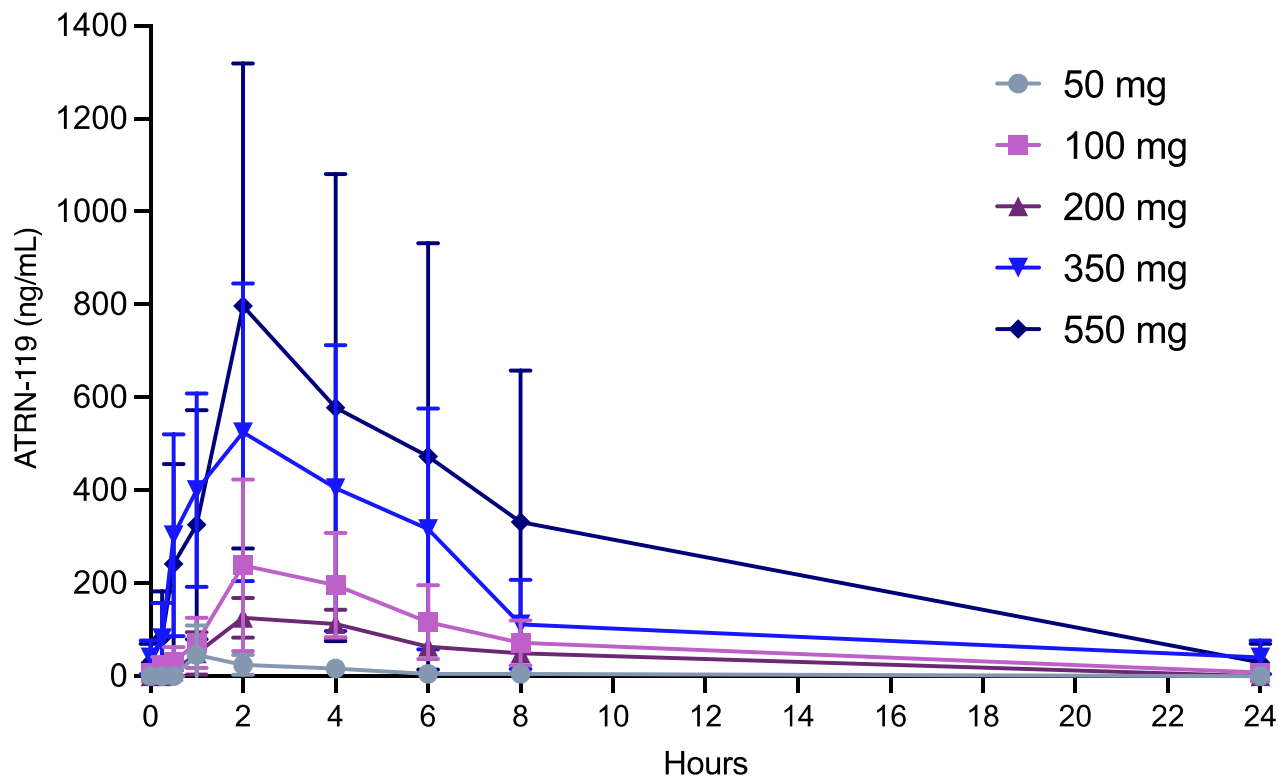
Part 2. Dose expansion (up to 60 patients)

Single-agent ATRN-119 after MTD/RP2D is established

Potential indications: colorectal, prostate, gastric, endometrial

ATRN-119 Steady State Plasma Concentrations (Cycle 1 Day 7)

ATRN-119 Exhibits Near-dose Proportional Exposure Following Oral Administration

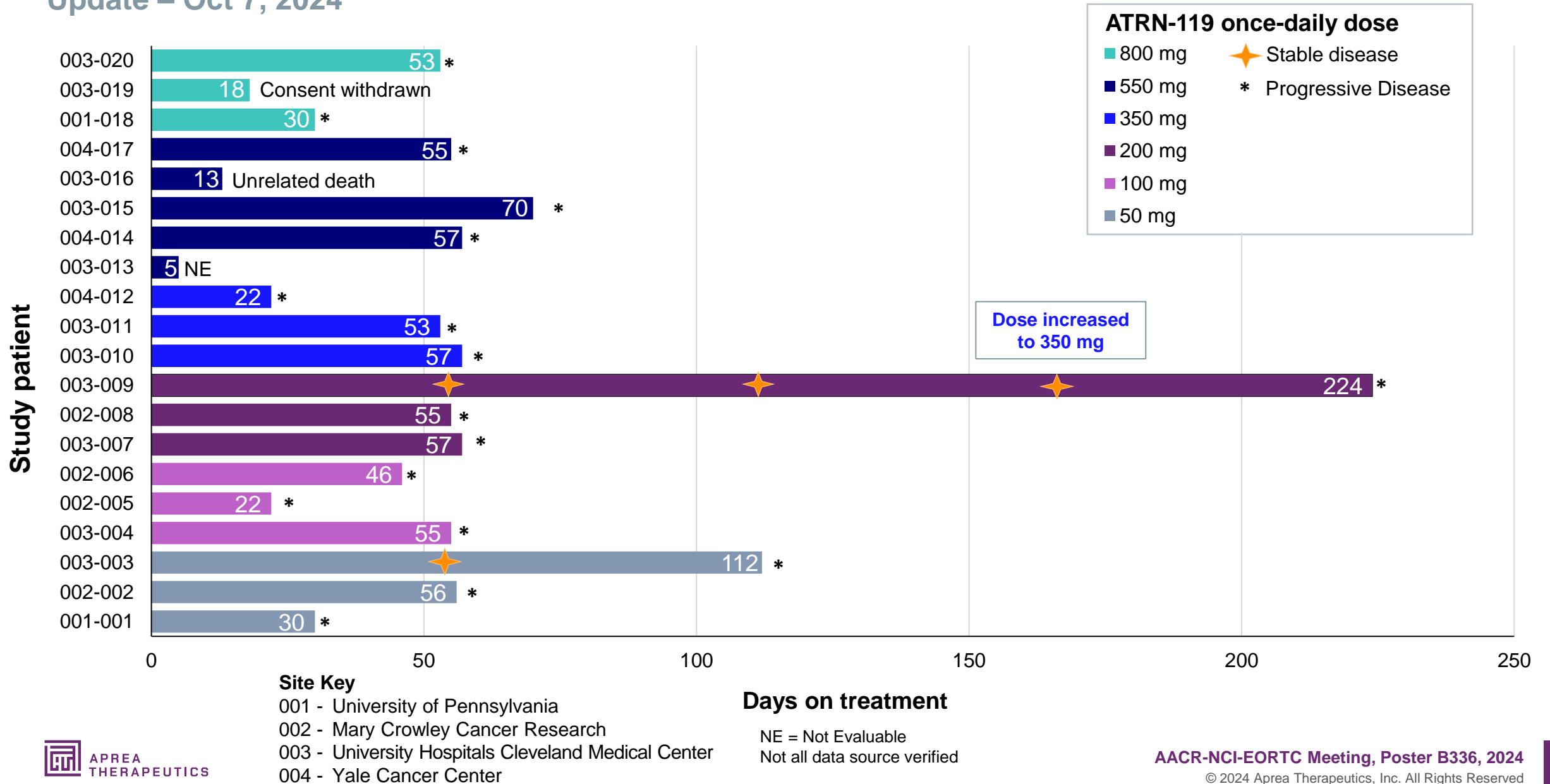


Dose Level mg, once daily	N	AUC _{0-24hr} (ng*h/mL)	C _{max} (ng/mL)	Half-life (hours)
		Mean (SD)	Mean (SD)	Mean (SD)
50	3	180 (143)	57 (56)	2.1 (1.4)
100	3	1771 (920)	277 (151)	3.8 (1.6)
200	3	1024 (162)	149 (9.2)	3.2 (0.5)
350	3	5252 (4362)	525 (320)	5.9 (0.5)
550	3	6899 (6058)	797 (522)	5.5 (1.4)

- T_{max} is approximately 2 hours and the half-life is estimated between 4-6 hours
- The duration of systemic exposure substantially increases with each dose level

ABOYA-119 Summary of Duration of Treatment

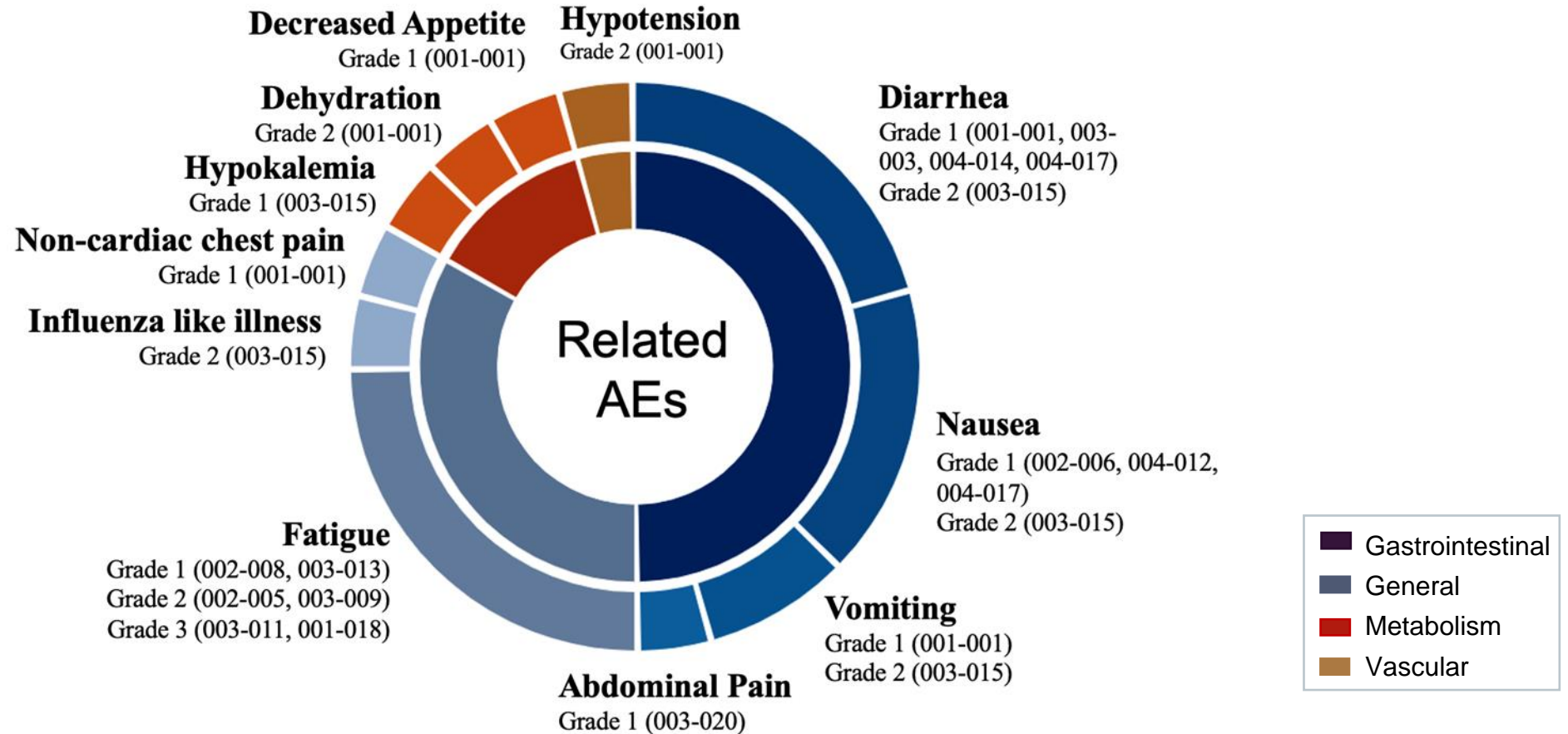
Update – Oct 7, 2024



ABOYA-119: Summary of Related Adverse Events

Update – October 2, 2024

No ATRN-119 Related SAE or Grade 4 Adverse Events Reported



ATRN-119: Summary

First and only macrocyclic ATR inhibitor

- Potentially differentiated from other ATR inhibitors in selectivity and toxicity profile, permitting continuous dosing
- Strong tumor control observed in vivo, including in challenging genetic backgrounds
- Daily oral dosing provides potential continuous tumor suppression

ABOYA-119: Ongoing Phase 1/2a Clinical Study (NCT04905914)

- Patients with advanced solid tumors harboring specific DDR mutations
- Well tolerated with no hematologic, target organ or DLTs to date
- Near-dose proportional exposure following oral administration
- Preliminary signs of clinical benefit already observed at low doses
- Potential efficacy data readout in H2 2025

Aprea Therapeutics (NASDAQ: APRE)

Intellectual Property Portfolio

**Financial Summary &
Capitalization**

Investment Highlights

Strong Intellectual Property Portfolio

Family 1: Ataxia Telangiectasia and Rad3-Related (ATR) Protein Kinase Inhibitors

- Macrocytic inhibitors of ATR & methods of using them to treat various cancers, filed on Oct. 13th, 2015
- Patents granted in AU, BR, CA, CN, EP, IL, IN, JP, KR, MX, HK.
- 1.1: Issued on May 30, 2017 as U.S. Patent 9,663,535
- 1.2: Issued on May 29, 2018 as U.S. Patent 9,981,989
- 1.3: Issued on Feb. 5, 2019 as U.S. Patent 10,196,405

Family 2: ATR Inhibitors and Methods of Use

- Carboxylic acid-containing macrocytic ATR inhibitors, and prodrugs; methods of using these inhibitors to treat various cancers; filed on Apr. 12th, 2017
- Issued on May 28th, 2019 as U.S. Patent 10,301,324

Family 3: ATR Inhibitor Pharmaceutical Composition and Methods

- International application filed on Apr. 14th, 2023
- Pharmaceutical formulation and composition of our lead molecule in the clinic
- Nationalizations pending for US, AU, BR, CA, CN, EA, EP, IL, IN, JP, KR, MX, NZ, PH, SG, ZA

Family 4: WEE1 Inhibitor Pharmaceutical Compositions and Methods

- International Application filed on Jun. 3rd, 2022
- Composition of our lead WEE1 inhibitor compounds
- Nationalizations in US, AU, BR, CA, CN, EP, IL, IN, JP, KR, MX, ZA

Family 5: Methods of Treating Cancer

- U.S. Provisional Application filed on Sep. 19th, 2024
- Clinical methods of treating advanced solid cancer tumors using lead molecule

Aprea Therapeutics (NASDAQ: APRE)

Financial Summary & Capitalization

Cash & Equivalents of ~\$26.2M as of September 30, 2024

Closed approximately \$16.0M (before deducting placement agent fees and offering costs of approximately \$1.3M) from our private placement of our common stock in March 2024 with the potential to receive up to an additional \$18.0M upon cash exercise of accompanying warrants at the election of the investors.

Securities	Common Equivalents as of November 7, 2024
Preferred Stock (as converted)	28,112
Common Stock	5,434,903
Warrants:	
Pre-Funded	507,076
Tranche A	1,097,394
Tranche B	<u>1,097,394</u>
Total	2,701,864
Options	743,806
Restricted Stock Units	36,442
Fully Diluted Equivalents	8,945,127

Investment Highlights



Technology developed by pioneers in synthetic lethality

- Management with strong drug development and commercial expertise



Diversified portfolio with best in class, de-risked clinical and preclinical programs

- Highly potent and selective WEE1 (APR-1051) and ATR (ATRN-119) inhibitors
- Opportunities in ovarian, colorectal, prostate, and breast cancers
- Single agent and combination therapies



Near term catalysts

- H1 2025 open label data APR-1051; Complete dose escalation H2 2025
- H1 2025 open label data ATRN-119; Complete dose escalation H2 2025



Financed into Q4 2025

- Achieve short term inflection points and catalysts
- Evaluate optimal strategic partnerships