



# Corporate Overview

December 2024



# Legends

## Forward-Looking Statements

This presentation contains forward-looking statements that involve substantial risks and uncertainties of OnKure Therapeutics, Inc. (“OnKure” or the “Company”). All statements other than statements of historical facts contained in this presentation, including statements regarding our future financial condition, results of operations, business strategy and plans, and objectives of management for future operations, as well as statements regarding industry trends, are forward-looking statements. Such forward-looking statements include, among other things, statements regarding the potential of, and expectations and plans regarding, OnKure’s product candidates and programs, including OKI-219; the potential of PI3K $\alpha$ <sup>MUT</sup> inhibitor-based therapies; OnKure’s ability to advance additional programs; planned expansion combination arms; the expected milestones and timing of such milestones, including for OKI-219 and its discovery programs; and statements regarding OnKure’s financial position, including its cash runway. In some cases, you can identify forward-looking statements by terminology such as “estimate,” “intend,” “may,” “plan,” “potentially” “will” or the negative of these terms or other similar expressions.

We have based these forward-looking statements largely on our current expectations and projections about future events and trends that we believe may affect our financial condition, results of operations, business strategy and financial needs. These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including, among other things: OnKure’s limited operating history; the significant net losses incurred since inception; the ability to raise additional capital to finance operations; the ability to advance product candidates through preclinical and clinical development; the ability to obtain regulatory approval for, and ultimately commercialize, OnKure’s product candidates; the outcome of preclinical testing and early clinical trials for OnKure’s product candidates, including the ability of those trials to satisfy relevant governmental or regulatory requirements and the potential that the outcome of preclinical testing and early clinical trials may not be predictive of the success of later clinical trials; OnKure’s limited resources; the risk of adverse events, toxicities or other undesirable side effects; potential delays or difficulties in the enrollment or maintenance of patients in clinical trials; the decision to develop or seek strategic collaborations to develop OnKure’s current or future product candidates in combination with other therapies and the cost of combination therapies; OnKure’s limited experience in designing clinical trials and lack of experience in conducting clinical trials; the substantial competition OnKure faces in discovering, developing, or commercializing products; the ability to attract, hire, and retain highly skilled executive officers and employees; the ability of OnKure to protect its intellectual property and proprietary technologies; the scope of any patent protection OnKure obtains or the loss of any of OnKure’s patent protection; developments relating to OnKure’s competitors and its industry, including competing product candidates and therapies; reliance on third parties, contract manufacturers, and contract research organizations; legislative, regulatory, political and economic developments and general market conditions; and other risks. Information regarding the foregoing and additional risks may be found in the section titled “Risk Factors” in documents that OnKure files from time to time with the Securities and Exchange Commission. These risks are not exhaustive. New risk factors emerge from time to time, and it is not possible for our management to predict all risk factors, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in, or implied by, any forward-looking statements. You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. Except as required by law, we undertake no obligation to update publicly any forward-looking statements for any reason after the date of this presentation.

This presentation also contains estimates and other statistical data made by independent parties and by us relating to market size and growth and other data about our industry. These data involve a number of assumptions and limitations, and you are cautioned not to give undue weight to such estimates. In addition, projections, assumptions, and estimates of our future performance and the future performance of the markets in which we operate are necessarily subject to a high degree of uncertainty and risk.

# Investment Highlights

PI3K $\alpha$  is the most frequently mutated oncogene

Highly selective, targeted therapies offer the potential for significant improvement in patient outcomes

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OnKure is developing a best-in-class portfolio of highly mutant-selective PI3K $\alpha$  inhibitors **designed to preserve wild-type PI3K $\alpha$  while effectively targeting the majority of PI3K $\alpha$ -mutated cancers**

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- OKI-219 is a PI3K $\alpha$ <sup>H1047R</sup> mutant selective inhibitor being evaluated in a Phase 1 trial as a monotherapy and in combination with other agents in breast cancer
- Preclinical pipeline includes: PI3K $\alpha$ <sup>PAN</sup> and PI3K $\alpha$ <sup>E542K, E545K</sup> programs
- Cash and investments expected to provide funding through multiple clinical milestones and runway into Q4 2026

# Leadership Team with Proven Experience



**Nicholas Saccomano, Ph.D.**  
President and Chief Executive Officer



**Samuel Agresta, M.D., MPH**  
Chief Medical Officer



**Dylan Hartley, Ph.D.**  
Chief Scientific Officer



**Duncan Walker, Ph.D.**  
Chief Development Officer



**Jason Leverone**  
Chief Financial Officer



**Rogan Nunn, J.D.**  
General Counsel and Secretary



**Mark L. Boys, Ph.D.**  
SVP of Discovery Chemistry



**Ann Howell, Pharm.D.**  
VP of Regulatory Affairs



**James Blake, Ph.D.**  
SVP of Computational Drug Discovery



**Robbie Alton, Pharm.**  
VP of Clinical Operations



**Kevin S. Litwiler, Ph.D.**  
SVP of DMPK and Clinical Pharmacology



**Jim Wong, Ph.D.**  
VP of Biological Sciences



# Mutant-Selective PI3K $\alpha$ Inhibitors

Targeting the Majority of PI3K $\alpha$ -mutated Cancers While Preserving Wild-type PI3K $\alpha$

PI3K $\alpha$  mutant specific portfolio

Program/Target	Indication(s)	Discovery	Preclinical	Clinical	Current Status	Next Anticipated Milestone
<b>OKI-219</b> PI3K $\alpha$ <sup>H1047R</sup> mutant-selective inhibitor	Breast cancer & solid tumors	PIKture-01 Trial			Phase 1 enrolling	Data Update (2H 2025)
<b>OKI-TBD</b> PI3K $\alpha$ <sup>PAN</sup> mutant-selective inhibitor	Solid tumors & breast cancer				Candidate selection	Select candidate (1H 2025)
<b>OKI-TBD</b> PI3K $\alpha$ <sup>E542K, E545K</sup> mutant-selective inhibitor	Solid tumors & breast cancer				Active discovery	Select candidate (2026)

# PI3K $\alpha$ : The Most Commonly Mutated Oncogene

A Need for Highly Selective Mutant Inhibitors that Improve Efficacy and Safety

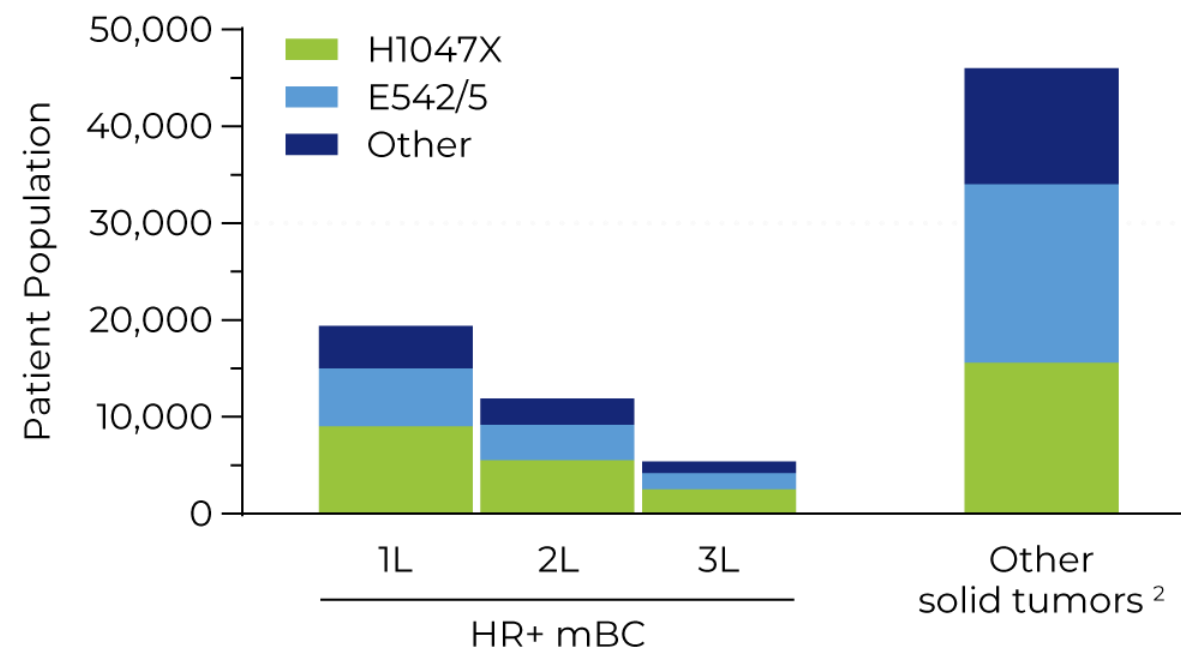
## PI3K $\alpha$ : A validated target in HR+ MBC

- Three approved drugs (alpelisib, capivasertib, and inavolisib)
- However, on-target toxicity of inhibiting wild type significantly limits dosing and decreases quality of life<sup>5,6</sup>

## OnKure is developing mutant-selective inhibitors designed to preserve wild-type

- **PI3K $\alpha$ <sup>H1047R\*</sup>** OKI-219, in Phase 1
- **PI3K $\alpha$ <sup>PAN</sup>** candidate selection 1H 2025
- **PI3K $\alpha$ <sup>E542K, E545K</sup>** active discovery

US Patient Population<sup>1</sup>



1. Data from Tumor portal; ACS Cancer Facts and Figures; Sanger COSMIC database and cBioPortal and Independent market analysis.

2. Estimate of Salvage Therapy patients based on cancer Deaths (US Patients; ACS cancer facts and figures, Globecan)

3. Kandoth, C., McLellan, M., Vandin, F. et al. Nature 502, 333–339 (2013); <http://www.tumorportal.org/#gene>

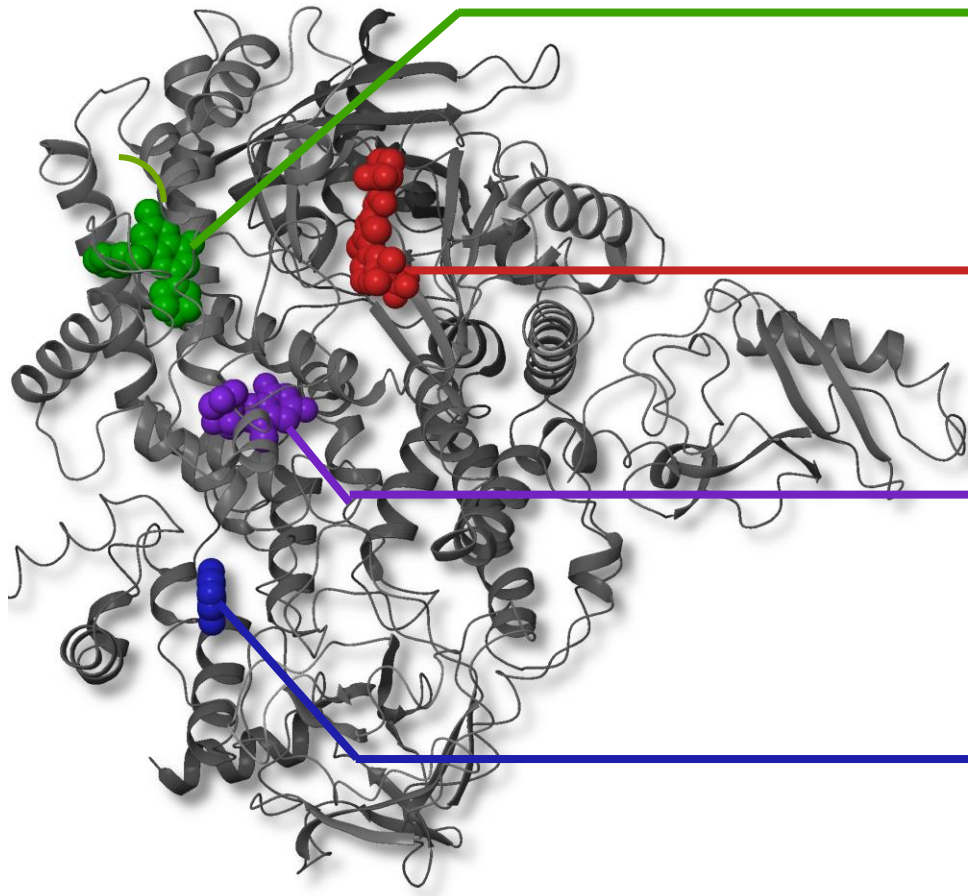
4. <https://cancer.sanger.ac.uk/cosmic/gene/analysis?ln=PIK3CA#references>

5. Fritsch et al Mol Cancer Ther; 13(5) May 2014, 6. Juric et al, JCO, 36 (13), 2018

\*PI3K $\alpha$ <sup>H1047R</sup> is the most common hot spot mutation<sup>3</sup> present in ~15% of breast and ~4% of all human cancers<sup>4</sup>

# Next-Gen PI3K $\alpha$ Mutant-Targeting Landscape

Mutant-Selectivity is Necessary to Drive Improved Efficacy and Safety



## PI3K $\alpha$ <sup>H1047R</sup> Inhibitors

- Phase 1: OKI-219, previously LOXO-783
- Highly selective; wide therap. index preclinically

## ATP Site Competitive Inhibitors

- Alpelisib approved
- Inavolisib approved

## Non-Mutation Site Allosteric Inhibitors

- Phase 1: Relay & Scorpion
- Single-digit selectivity
- Initial proof of concept data

## PI3K $\alpha$ <sup>E-mutant</sup> Inhibitors

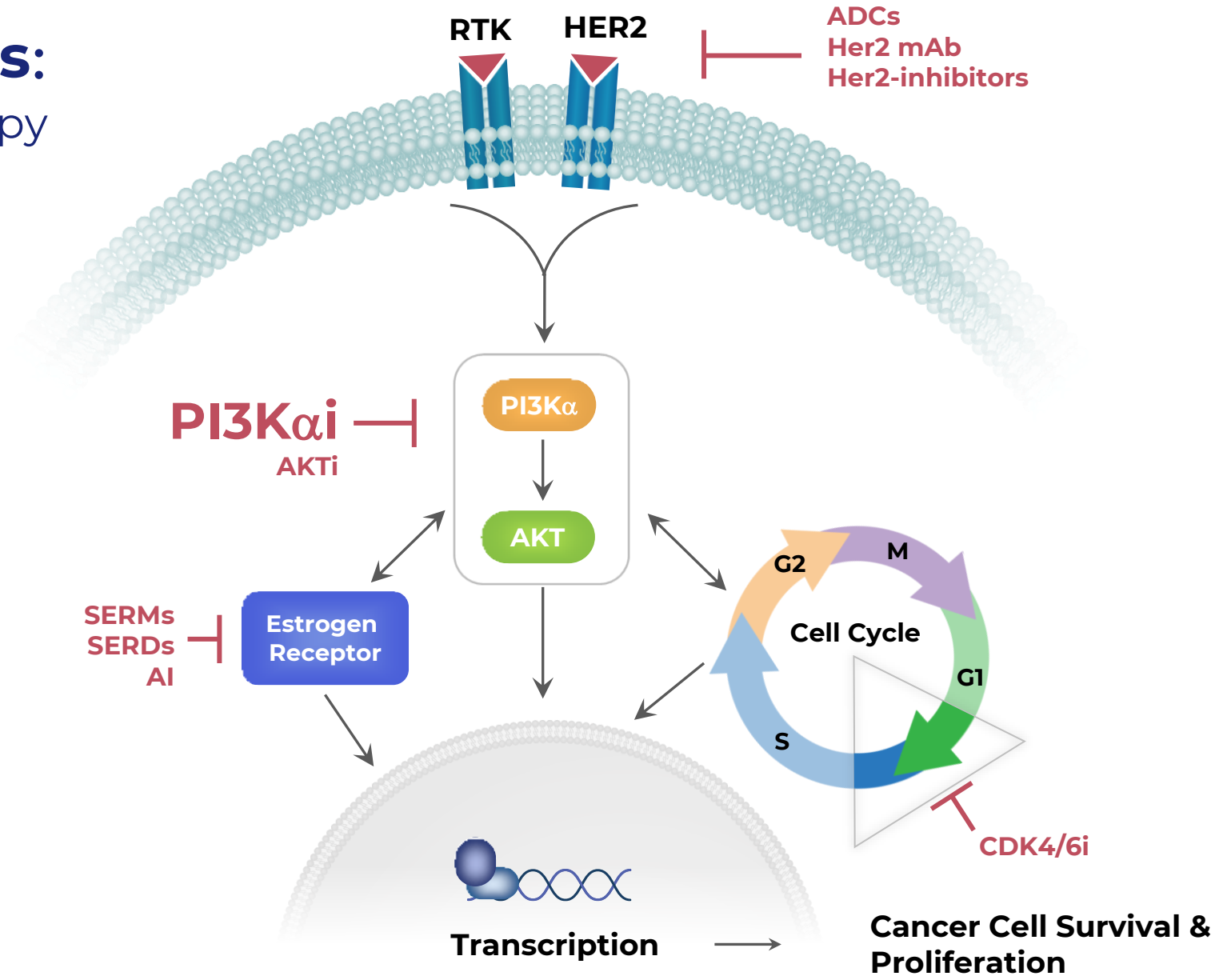
- E-mutation-specific
- No known clinical trials
- OnKure preclinical program

Reported Cell-Based  
Selectivity for PI3K $\alpha$ <sup>H1047R</sup>  
vs PI3K $\alpha$ <sup>WT</sup>

Compound	H1047R
Alpelisib <sup>1</sup>	1
STX-478 <sup>1</sup>	8.8
RLY-2608 <sup>2</sup>	3.8
<b>OKI-219<sup>3</sup></b>	<b>~100</b>

# PI3K $\alpha$ <sup>MUT</sup> Inhibitors:

Potential Backbone Therapy  
in Combination with  
Approved Agents in  
Breast Cancer



SERM: Selective Estrogen Receptor Modulator  
SERD: Selective Estrogen Receptor Degradator  
AI: Aromatase Inhibitor  
ADC: Antibody Drug Conjugate



# PI3K $\alpha$ Mutated HR+ MBC: A Major Market Opportunity

## PI3K $\alpha$ <sup>H1047R</sup> Mutated HR+ Metastatic Breast Cancer: Significant Unmet Need

HR+ accounts for ~70% of all BrCa cases <sup>1</sup>	Current & Near-Term Treatments	Treatable US Population <sup>2</sup>
Adjuvant	NONE	~25K
1 <sup>st</sup> Line	INAVOLISIB + palbociclib + fulvestrant	~9K
2 <sup>nd</sup> Line	ALPELISIB + fulvestrant CAPIVASERTIB + fulvestrant	~5.5K

### OKI-219: Targeted for Development Across Adjuvant & MBC

Properties of OKI-219 suggest potential to demonstrate safety and efficacy in **both adjuvant and metastatic settings**

<sup>1</sup><https://seer.cancer.gov/statfacts/html/breast-subtypes.html>  
<sup>2</sup>Third party research

# OKI-219: Multiple Development Opportunities

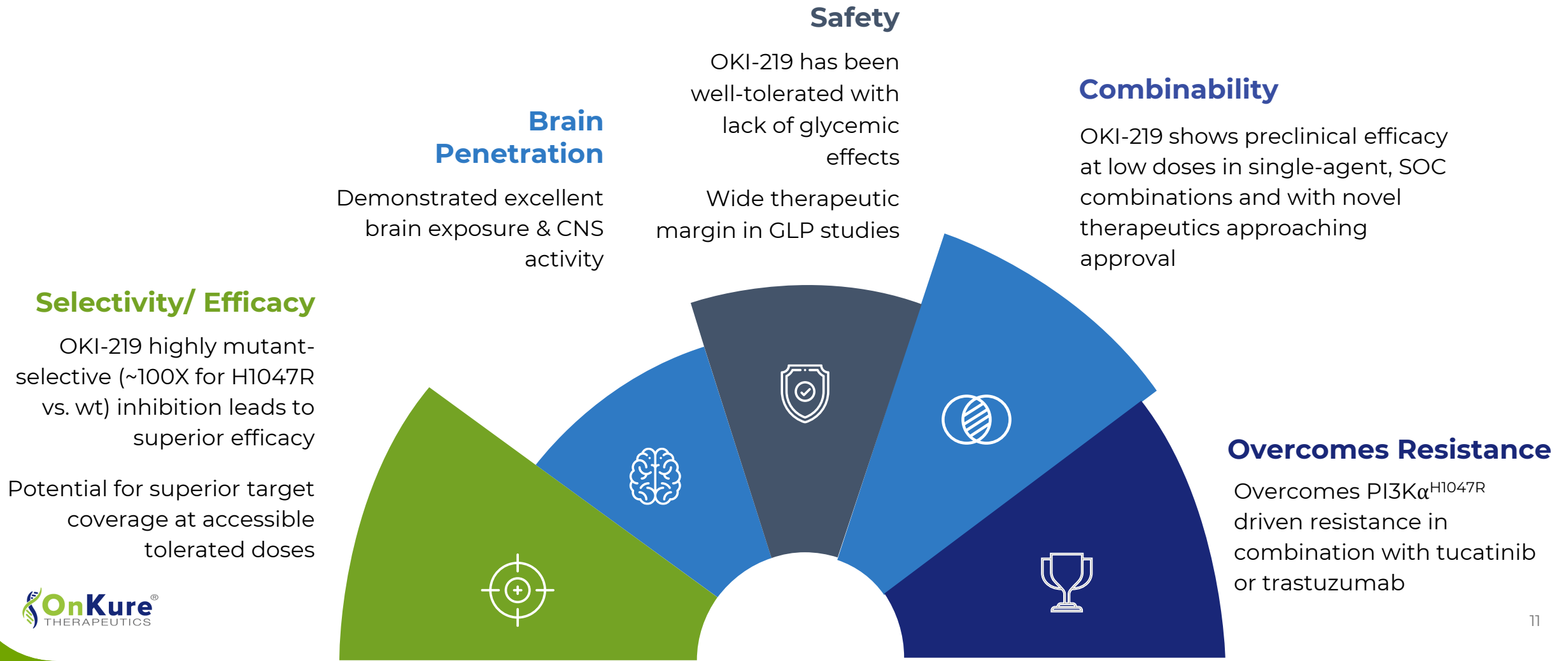
The Potential to Reach Across Multiple Lines of Therapy

PI3K $\alpha$ <sup>H1047R</sup> Mutant-Selective Drugs: Development into Poorly Served Markets

	Current & Near-Term Treatments	OKI-219 Development Opportunities (Start in Metastatic and Advance to Adjuvant)	
Adjuvant	<b>NONE</b> (AI +/- CDK4/6)	<b>OKI-219 vs. Placebo (SOC)</b> (AI+CDK4/6 Combo)	
1 <sup>st</sup> Line	<b>INAVOLISIB</b> + palbociclib + fulvestrant	<b>OKI-219 vs. Placebo (SOC)</b> <i>&gt;12 months prior AI+ CDK4i</i> (AI+CDK4/6 Combo)	<b>OKI-219 vs. Inavolisib</b> <i>&lt;12 months prior AI+ CDK4i</i> (AI+CDK4/6 Combo)
2 <sup>nd</sup> Line	<b>ALPELISIB</b> + fulvestrant	<b>OKI-219 vs. Placebo (SOC)</b> <i>prior inavolisib or alpelisib</i> OKI-219 + SERD	<b>OKI-219 vs. alpelisib/capivasertib</b> OKI-219 + next gen SERD
	<b>CAPIVASERTIB</b> + fulvestrant		

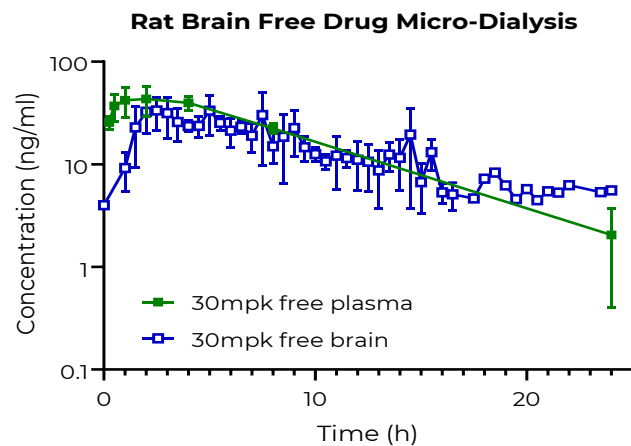
OKI-219 Approval Strategy

# Preclinical Safety and Efficacy Profile Shows High Potential

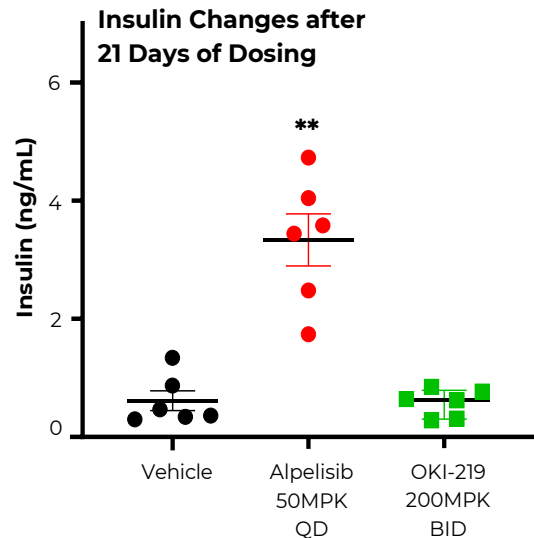


# Preclinical Safety and Efficacy Profile Shows High Potential

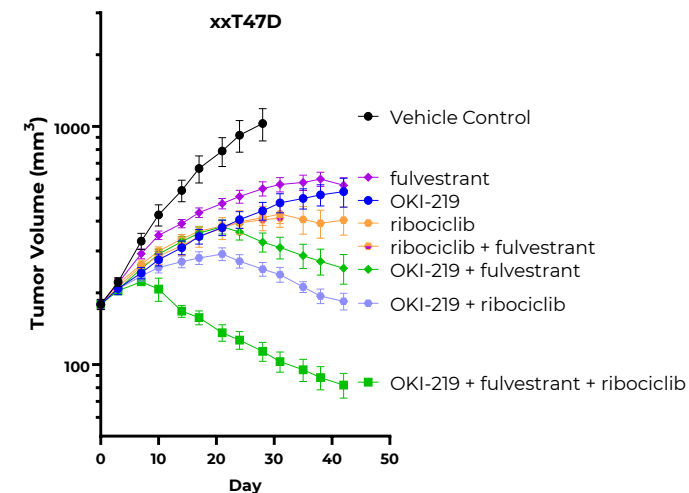
## Brain Penetration



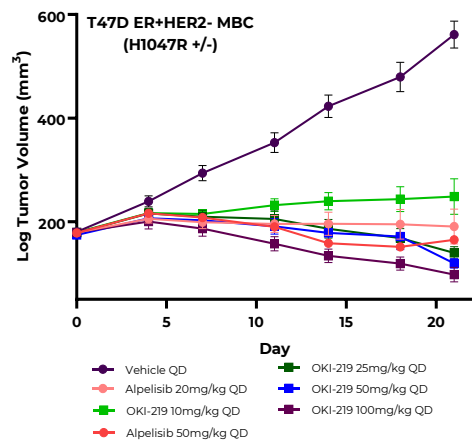
## Safety



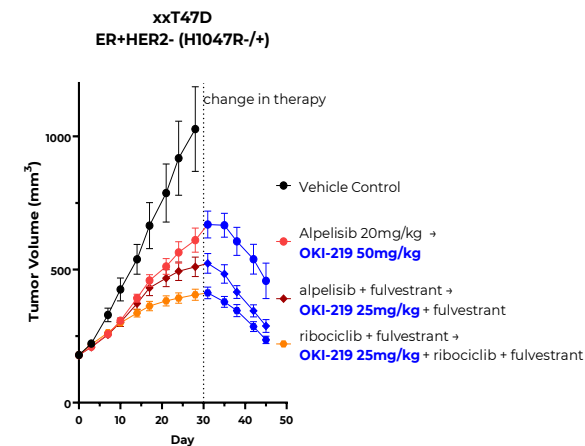
## Combinability



## Selectivity/ Efficacy

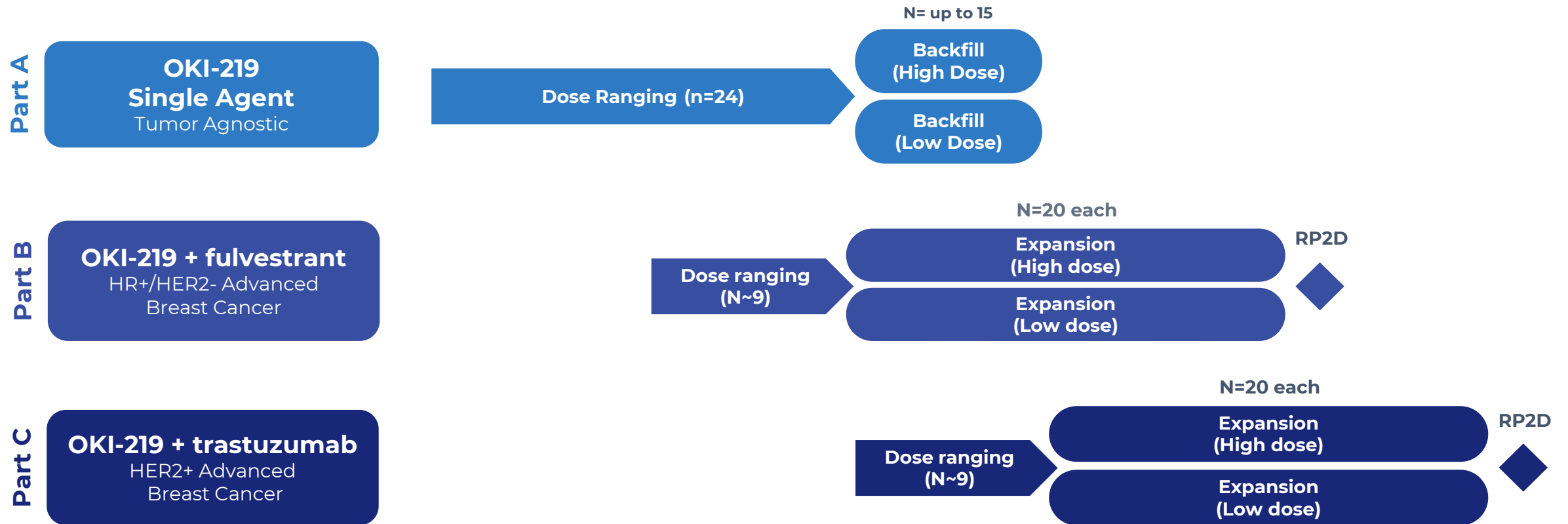


## Overcomes Resistance



# PIKture-01 Phase 1 Clinical Trial

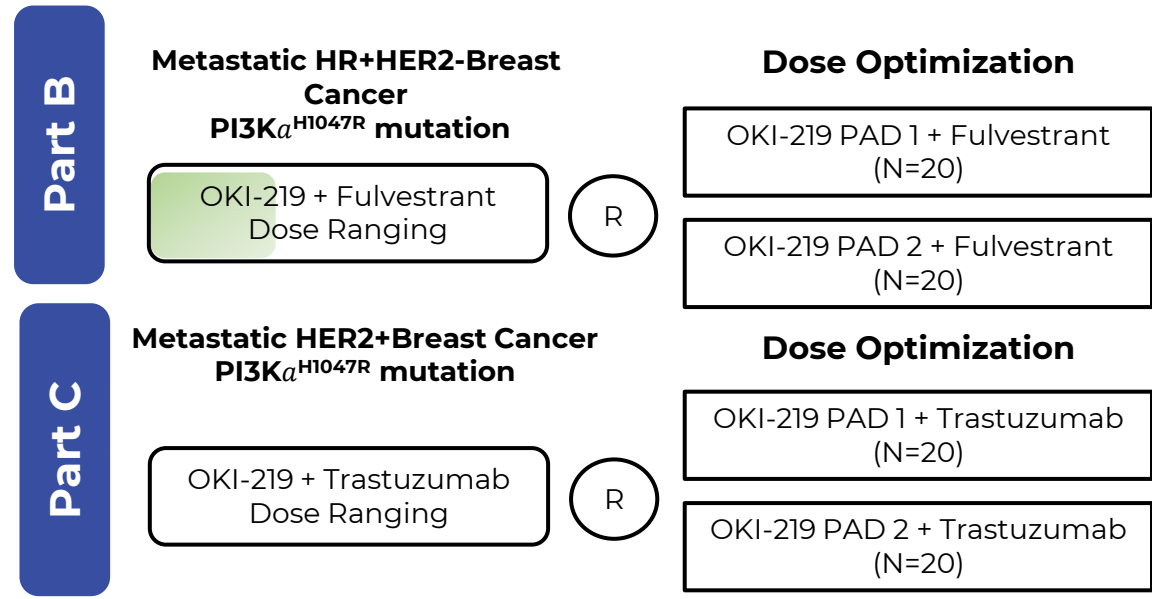
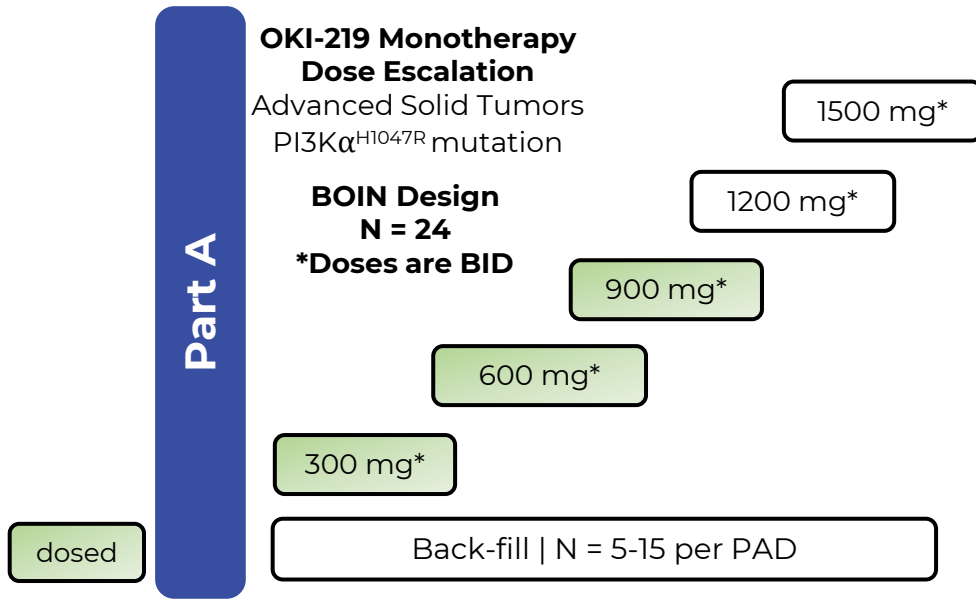
An Open-Label, Multicenter, Dose-Escalation First-in-Human Trial of OKI-219



Additional expansion combination arms are being planned

# PIKture-01 Study Design

As of October 28, 2024



## Key Eligibility Criteria:

- PI3K $\alpha^{H1047R}$  advanced solid tumors who received prior SOC
- Prior PIK3 inhibitors of any kind allowed
- Treated or untreated asymptomatic brain metastasis allowed
- HbA1C < 8% allowed

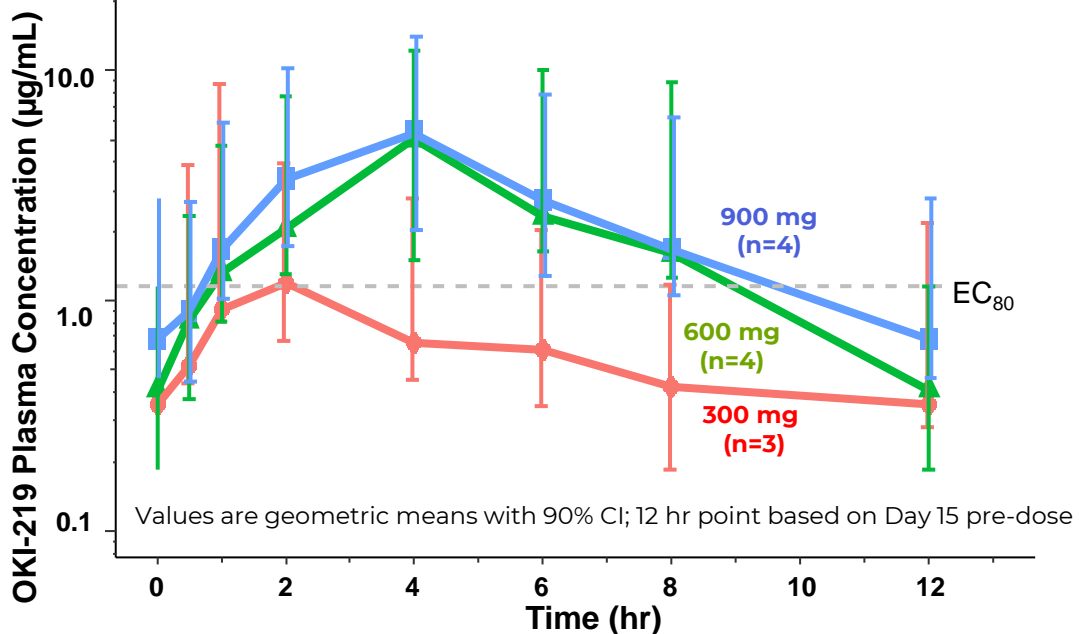
## Key Endpoints:

- Safety and tolerability
- PK, PD, RP2D incorporating Project Optimus<sup>1</sup>
- Anti-tumor activity assessed by ORR by RECIST v1.1, DOR, PFS
- Patient reported outcomes via EORTC QLQ-C30 score during dose optimization only

BOIN: Bayesian Optimal Interval Design; DOR: Duration of Response; ORR: Objective Response Rate; PFS: Progression Free Survival; PAD: Pharmacologically Active Dose; PD: Pharmacodynamics, PK: Pharmacokinetics; R: Randomization; RP2D: Recommended Phase 2 Dose; SOC: Standard of Care. NCT:06239467

# Pharmacokinetics: Highly Developable Candidate Profile

Steady-State OKI-219 Concentrations  
(Day 15)

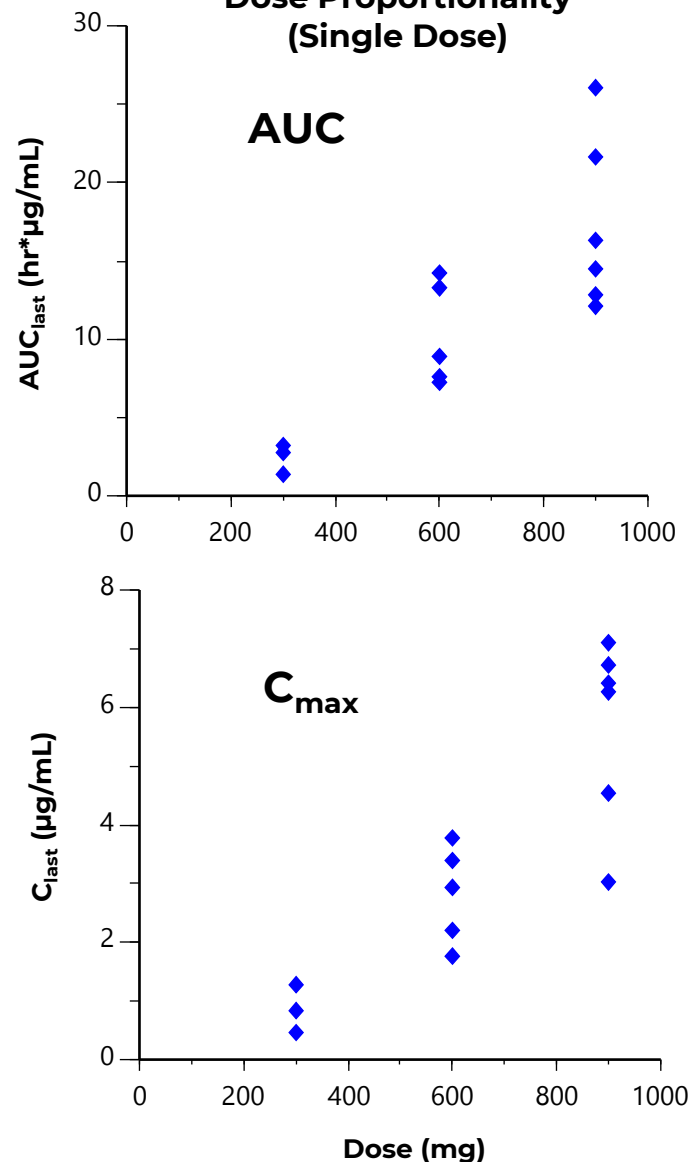


Steady-State OKI-219 PK Estimates

Parameter	300 mg BID	600 mg BID	900 mg BID
$T_{max}$ (hr)	2.0	4.0	3.0
$C_{max}$ (µg/mL)	1.47	5.33	5.94
$AUC_{tau}$ (hr*µg/mL)	7.55	26.0	30.5

Values are geometric means except for  $T_{max}$  which is median  
CI: Confidence Interval

Dose Proportionality  
(Single Dose)



- Steady-state exposures (900 mg BID) show near-continuous coverage
- Single dose, dose proportional exposure ( $C_{max}$ , AUC)
- OKI-219 is rapidly absorbed with modest accumulation

# Only Grade 1 TRAEs Observed Across All Dose Levels

No Hyperglycemia, Stomatitis, or Rash Observed at Any Dose

	<b>300 mg BID n = 3</b>	<b>600 mg BID n = 8</b>	<b>900 mg BID n = 6</b>	<b>ALL Pts n=17</b>
<b>Preferred Term</b>	<b>Grade 1</b>	<b>Grade 1</b>	<b>Grade 1</b>	<b>Grade 1</b>
Diarrhoea	0 (0%)	3 (38%)	1 (17%)	4 (24%)
Nausea	0 (0%)	1 (13%)	1 (17%)	2 (12%)
Pruritus	1 (33%)	1 (13%)	0 (0%)	2 (12%)
Anaemia	0 (0%)	1 (13%)	0 (0%)	1 (6%)
Fatigue	0 (0%)	1 (13%)	0 (0%)	1 (6%)

Data cut-off - October 28, 2024

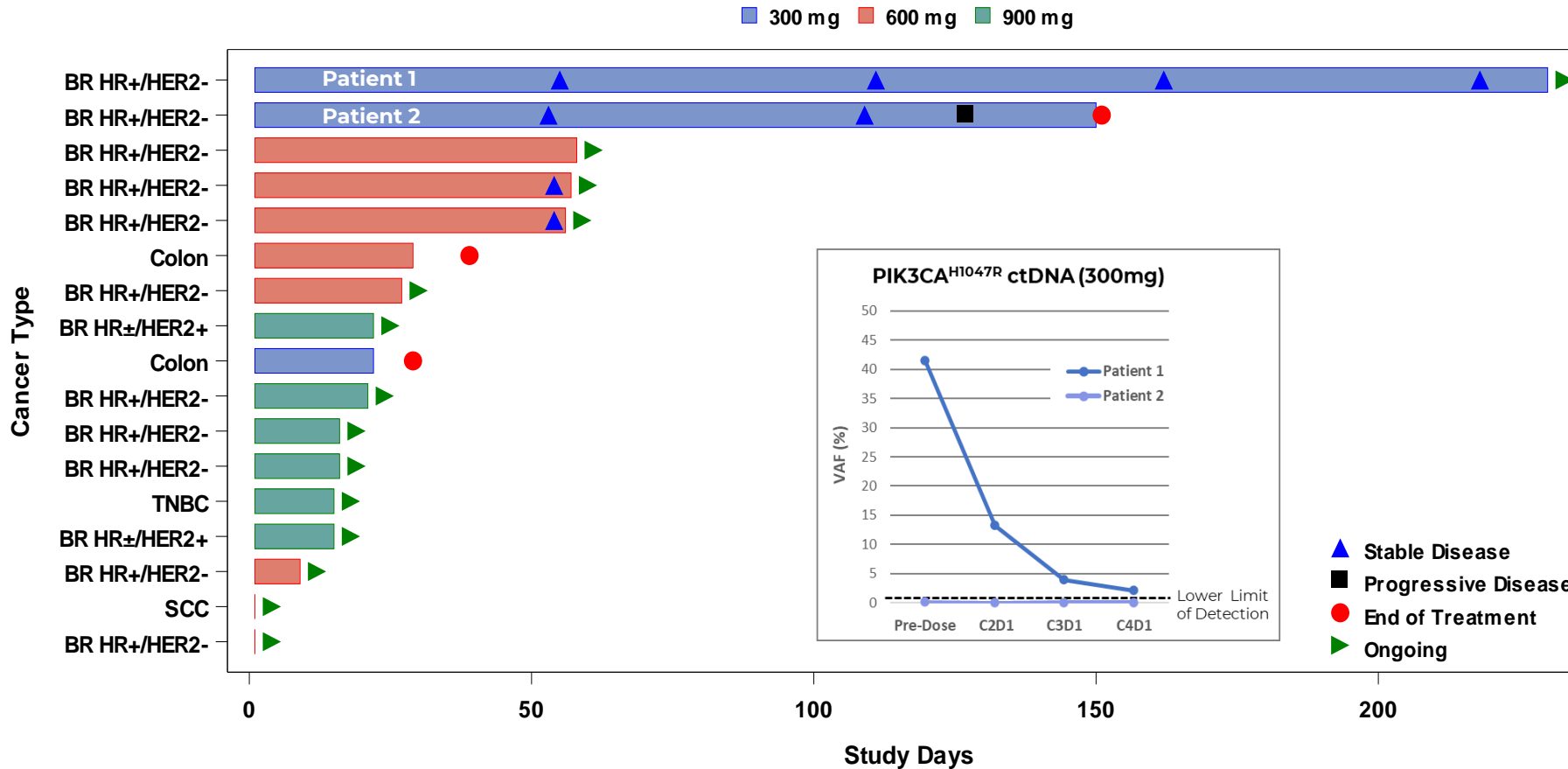
TRAEs: Treatment Related Adverse Events; DLT: Dose Limiting Toxicities; AEs: Adverse Events

- OKI-219 is well tolerated across all doses
- Adverse events were mild and infrequent
- No DLTs observed
- No dose interruptions, delays, reductions, or discontinuations for any AEs



# Time on Treatment

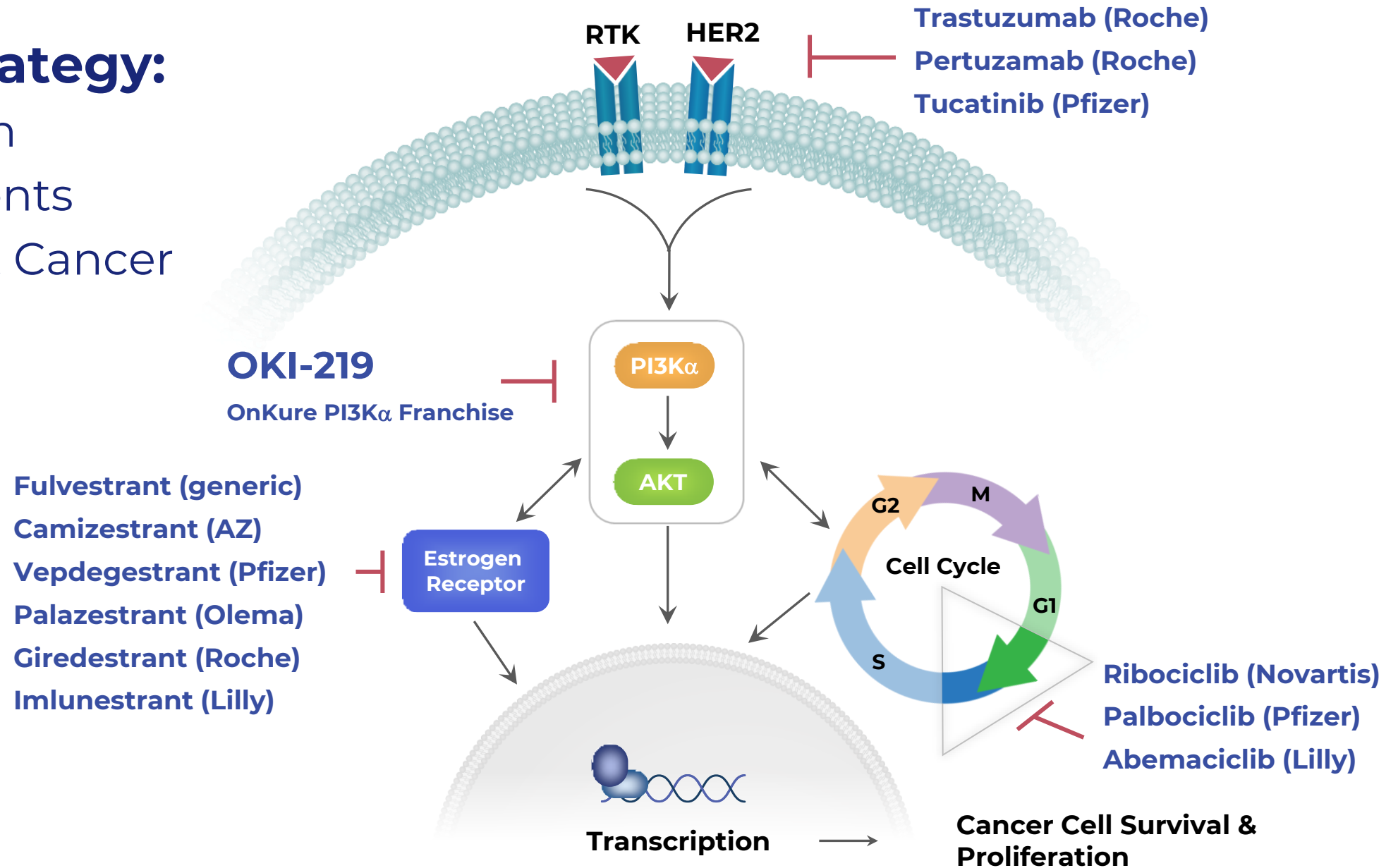
As of October 28, 2024



- 13/14 patients at doses  $\geq 600$  mg BID remain on study
- 2/3 patients at 300 mg showed prolonged stable disease
- Sustained  $>95\%$  reduction in PIK3CA<sup>H1047R</sup> ctDNA in 300 mg BID patient who remains on study after  $>7$  months

# OKI-219 Strategy:

Combine with Targeted Agents Across Breast Cancer



# Financial Overview

As of October 4, 2024

## Stock Symbol

NASDAQ: OKUR

## Investors

Participants in Private Placement (Oct 2024)

Acorn Bioventures, Cormorant Asset Management, Surveyor Capital (a Citadel company), Perceptive Advisors, Deep Track Capital, Samsara BioCapital, Vestal Point Capital and other undisclosed investors

## Cash and Investments

Approximately \$139 million at close of the merger/private placement

## Cash Runway

Cash and investments expected to provided funding through multiple clinical data readouts and runway into 4Q 2026

## Common Stock Outstanding

Approximately 13.3 million shares outstanding October 4, 2024 (after the close of the merger/private placement, and post-reverse split)



# Summary: OnKure is Developing Innovative Precision Medicines for Patients

Mutation-specific approach to a **validated target (PI3K $\alpha$ )** in a large patient population

**Ongoing PIKture-01 trial** evaluating OKI-219 single agent and in combination with other agents

**Focused team with remarkable success** in precision medicine

Supported by **committed investors**



WRITING THE NEXT CHAPTER IN  
**PRECISION MEDICINES**  
FOR PATIENTS WITH CANCER