



Pursuing Transformational Therapies for Women's Oncology

April 2024



Forward-Looking Statements

This presentation contains forward-looking statements made pursuant to the safe harbor provisions of the Private Securities Litigation Reform Act of 1995. Statements in this presentation that are not statements of historical fact are forward-looking statements. Such forward-looking statements include, without limitation, statements regarding our research and clinical development plans, the scope, progress, results and costs of developing our product candidate or any other future product candidates, strategy, regulatory matters, including the timing and likelihood of success of obtaining drug approvals, the timelines for potential clinical study results and clinical trials of palazestrant (OP-1250) as a monotherapy and in combination trials, including OPERA-01, the Company's pivotal Phase 3 monotherapy clinical trial, and OPERA-02, the Company's potential pivotal Phase 3 combination clinical trial, the potential beneficial characteristics, profile, safety, tolerability, efficacy and therapeutic effects of palazestrant as a monotherapy and in combination trials, the potential beneficial characteristics and tolerability of a tablet formulation, the potential of palazestrant to become a best-in-class treatment option for ER+/HER2- metastatic breast cancer and a backbone therapy for women living with breast cancer, the combinability of palazestrant with other drugs, the timelines for potential preclinical studies and clinical trials for our KAT6 inhibitor, market size and opportunity, our ability to complete certain milestones, our financial condition, cash position and runway and sufficiency of our financial resources, and the sufficiency of our management team. Words such as "believe," "anticipate," "plan," "expect," "intend," "will," "may," "goal," "project," "estimate," "potential" and similar expressions are intended to identify forward-looking statements, though not all forward-looking statements necessarily contain these identifying words. These forward-looking statements are based on the beliefs of the Company's management as well as assumptions made by and information currently available to the Company. Such statements reflect the current views of the Company with respect to future events and are subject to known and unknown risks, including business, regulatory, economic and competitive risks, uncertainties, contingencies and assumptions about the Company, including, without limitation, risks inherent in developing products and technologies, future results from the Company's ongoing and planned clinical trials, the Company's ability to obtain adequate financing to fund its planned clinical trials and other expenses, trends in the industry, the legal and regulatory framework for the industry and future expenditures, and other risks and uncertainties affecting the Company, including those described under the caption "Risk Factors" and elsewhere in the Company's Quarterly Reports on Form 10-Q, Annual Report on Form 10-K, and future filings and reports of the Company with the Securities and Exchange Commission. In light of these risks and uncertainties, the events or circumstances referred to in the forward-looking statements may not occur. The actual results may vary from the anticipated results and the variations may be material. These forward-looking statements should not be taken as forecasts or promises nor should they be taken as implying any indication, assurance or guarantee that the assumptions on which such forward-looking statements have been made are correct or exhaustive or, in the case of the assumptions, fully stated in this presentation. You are cautioned not to place undue reliance on these forward-looking statements, which speak only as of the date this presentation is given.

This presentation discusses product candidates that are under clinical study and which have not yet been approved for marketing by the U.S. Food and Drug Administration. No representation is made as to the safety or effectiveness of these product candidates for the use for which such product candidates are being studied.

This presentation incorporates publicly-available third-party data that we have not independently verified. There are risks inherent in conducting cross-trial comparisons and the results should be interpreted with caution. The presentation of such third-party data does not represent a head-to-head comparison of how palazestrant performed against any other third-party drug candidate or study. Rather, such third-party data has been pulled by us from publicly-available sources for supplemental informational purposes, only. We caution you that any comparisons against third-party data set forth herein should not be viewed as a side-by-side comparison, and you should not rely on the completeness or accuracy of our presentation of the results of any third-party drug candidate in these slides, due to differences in study design, how other companies quantify or qualify eligibility criteria, and how results are recorded, among other distinguishing factors and uncertainties. Because we may be unaware of or may not adequately present various distinguishing factors and uncertainties, the comparisons set forth herein may not properly present such third-party data, which may differ materially from the data as presented here. Investors are encouraged to independently review third party data and should not rely on our presentation of such data (including any such data placed in comparison with the performance of palazestrant) as a single measure to evaluate our business.

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Olema – A Leading Women's Oncology Company

Focused mission to transform the standard of care for women's cancers

Palazestrant: **best-in-class potential** to become **the backbone therapy** for ER+/HER2- metastatic breast cancer

Emerging pipeline leveraging deep expertise in **endocrine-driven cancers** and **mechanisms of acquired resistance**

Well-positioned with experienced management team and \$261.8M¹ in cash and cash equivalents

¹ Cash position as of December 31, 2023, includes the Company's cash, cash equivalents, and marketable securities.

Multiple 2024 Catalysts To Further Establish Olema Leadership Potential

**Execute OPERA-01
pivotal
Phase 3 2/3L
monotherapy trial**

**Present new
palazestrant-
ribociclib Phase 2
data in May**

**Prepare for
Phase 3 pivotal 1L
combination trial
with ribociclib**

**Initiate
palazestrant-
everolimus Phase
1b/2 clinical study**

**File IND for KAT6i
OP-3136
in late 2024**

Breast Cancer is the Second Most Common Diagnosed Cancer Worldwide

1 in 8 women in the U.S. will be diagnosed with invasive breast cancer in her lifetime

In 2024, it is estimated that

311K

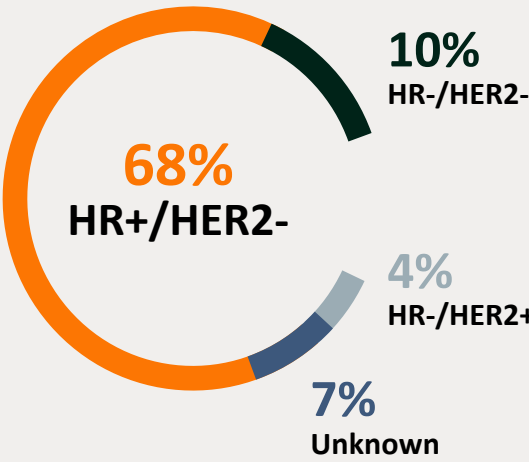
Women in the U.S. will be diagnosed with breast cancer

42,250

Women in the U.S. will die of metastatic breast cancer

Majority of all breast cancers

Express Estrogen Receptor (ER+)



Current endocrine therapies have considerable limitations





SERDs, SERMs, AIs

- Incomplete ER antagonism
- Sub-optimal PK profile
- Limited CNS penetration
- Tolerability issues

Better ER-Targeting Agents Are Needed

Significant Unmet Need in ER+/HER2- Breast Cancer Therapy

Olema Pipeline Has Potential to Cross Multiple Lines of Therapy with Large Market Sizes






	ER+/HER2- ¹				ER+/HER2+ ²
 Line of Therapy	2L/3L+	1L	High-Risk Adjuvant	Early Breast Cancer	HER2+ w/ CNS Mets
 Patients	~150K	~115K	~75K	~285K	~10K
 Duration of Therapy³	~2-12+ months	~6-36+ months	Up to 5 years	Up to 5 years	~12 months
 Market Potential⁴	\$5B+	\$10B+	~\$3-5B	\$10B+	~\$500M

Estimated \$22B market for endocrine therapies (ET) and targeted agents for ER+ breast cancer⁴

¹2025 incidence projection estimates. Olema internal data, Informa ER+/HER2- BC Prevalence Based Market Forecast. 26% of adjuvant eligible patients assumed to have Ki-67 ≥ 20%. Early breast cancer incidence includes high risk adjuvant segment. ²2025 incidence projection estimates. Olema internal data, Informa HER2+ BC Prevalence Based Market Forecast. Forecast based on 2L+ ER+/HER2+ metastatic breast cancer projections. ³Olema internal data. ⁴2025 opportunity estimates for total endocrine therapy market (US and EU5). Olema internal data.

Olema's Expanding Pipeline Focused on Women's Oncology

Advancing Palazestrant in 2nd/3rd Line and in 1st Line Metastatic Breast Cancer

 Olema ONCOLOGY	LINE	PRE-CLINICAL	PHASE 1	PHASE 2	PHASE 3
Palazestrant	2 nd /3 rd	Phase 3 trial initiated Q4 2023			
Palazestrant + Ribociclib	2 nd /3 rd	Phase 2 expansion ongoing			
	1 st	Phase 3 in planning			
Palazestrant + Palbociclib	2 nd /3 rd	Phase 2 expansion ongoing			
Palazestrant + Alpelisib	2 nd /3 rd	Phase 1b ongoing			
Palazestrant + Everolimus	2 nd /3 rd	Phase 1b/2 initiating			
KAT6 Inhibitor (OP-3136)		Pre-clinical	IND Anticipated Late 2024		

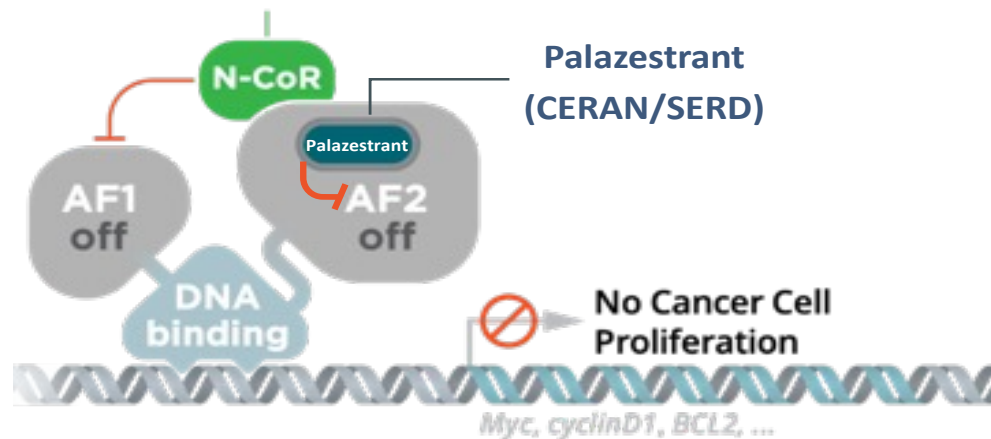
A photograph of two women walking along a sandy beach. The woman on the left is older, with short grey hair, wearing a light-colored long-sleeved shirt. The woman on the right is younger, with long dark hair, wearing a white sleeveless top. They are both smiling and looking towards the left. The background shows the ocean with gentle waves under a clear blue sky. A semi-transparent teal banner is overlaid on the lower-left portion of the image.

Our Phase 3 Asset – Palazestrant

Palazestrant: A Differentiated Next Generation Endocrine Therapy

Palazestrant has demonstrated ideal characteristics for a potential best-in-class endocrine therapy in approximately 300 women to date

Palazestrant, a complete ER antagonist (CERAN) and selective ER degrader (SERD)



CERANs turn off AF2 and recruit N-CoR to inactivate AF1

-  **Complete ER Antagonism**
-  **Attractive PK Profile**
-  **Favorable Tolerability**
-  **Robust Tumor Shrinkage**
-  **Combinability**
-  **CNS Penetration**

*Interim update of combination study with Palbociclib or Ribociclib at SABCS 2023. Abbreviations: **AF1**, activation factor 1; **AF2**, activation factor 2; **CDK4/6i**, cyclin dependent kinase 4/6 inhibitor; **DDI**, drug-drug interaction

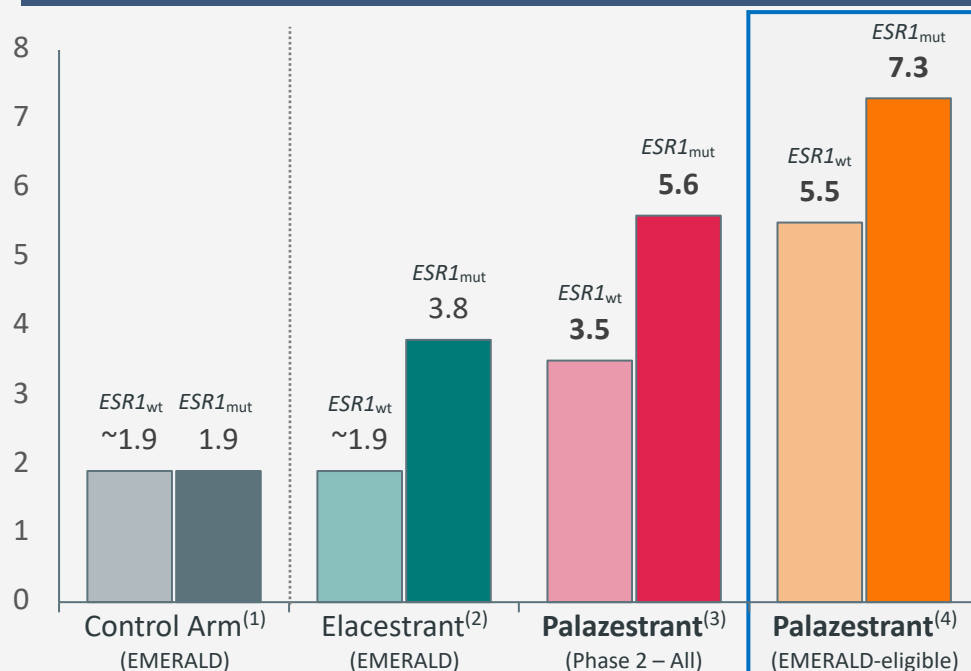
References: Shang and Brown, *Science*, 2002: Vol. 295, Issue 5564, pp. 2465-2468 ; Webb, Nguyen, and Kushner, *JBC*, 2003: Vol. 278, pp. 6912-6920

Demonstrated Activity Alone (Mutant and Wild-Type) and in Combination with CDK4/6i

Best-in-class Monotherapy PFS Potential and No DLTs/DDIs at Full Dose in Combination

Second-/Third-Line: Palazestrant Monotherapy

Median PFS (months) - *ESR1* Mut and WT Patients



First-Line: Attractive Combinability with CDK4/6i

- Combinable with CDK4/6 inhibitors ribociclib and palbociclib:
 - No significant drug-drug interaction
 - No dose-limiting toxicities
 - Tolerability profile consistent with the FDA-approved labels of ribociclib or palbociclib plus an endocrine therapy
- Full dose CDK4/6 inhibitor and palazestrant
- Efficacy continues to mature

NOTE: This analysis is the aggregation of results across independent studies. There are risks inherent in conducting cross-trial comparisons. Refer to further disclaimers on slide 2.

1. Source: SABCS 2021 EMERALD data. Median PFS in control arm and in elacestrant 400 mg dose. EMERALD Control Arm n=113 in *ESR1* mutation detected at baseline and n=125 in *ESR1* mutation not detected at baseline.

2. Source: 2022 JCO Bidard Supplemental EMERALD data. Median PFS in elacestrant 400 mg dose in *ESR1* mutation detected n=115 and in *ESR1* mutation not detected n=124.

3. Source: Palazestrant Phase 2 dataset with *ESR1* mutations detected at baseline (n=36) and *ESR1* mutation not detected at baseline (n=39).

4. Source: Emerald-eligible patient population from palazestrant Phase 2 dataset (2/3L +/-CT) with *ESR1* mutations detected at baseline (n=23) and *ESR1* mutations not detected at baseline (n=21).



Palazestrant Monotherapy for Second-/Third-Line Therapy

Monotherapy: Compelling PFS in *ESR1*-Mutant and Wild-Type Patients

Well tolerated, and favorable PK and efficacy in heavily pretreated patients

Palazestrant Phase 2 monotherapy clinical data



Demographics

- 86 heavily pretreated patients
- Majority had measurable and/or visceral disease
- 97% prior CDK4/6i
- 66% prior fulvestrant
- 31% prior chemotherapy
- 48% activating mutations in *ESR1*



Safety: Well Tolerated

- Well tolerated with no dose-limiting toxicities (DLTs), and maximum tolerated dose (MTD) was not reached
- Most AEs were low grade (1/2)
- Tablet formulation anticipated to reduce upper GI adverse events



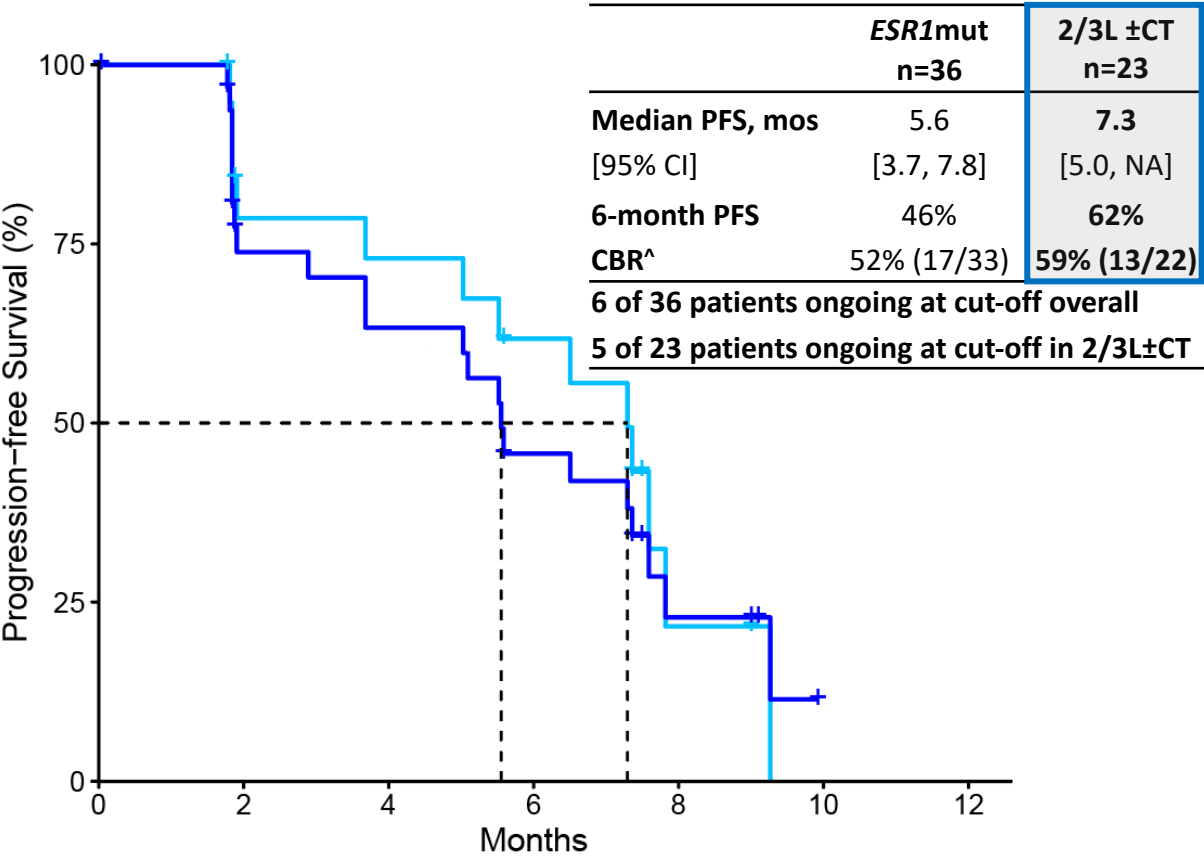
Favorable Pharmacokinetics

- High oral bioavailability with daily dosing, dose proportional exposure and a long half-life of eight days

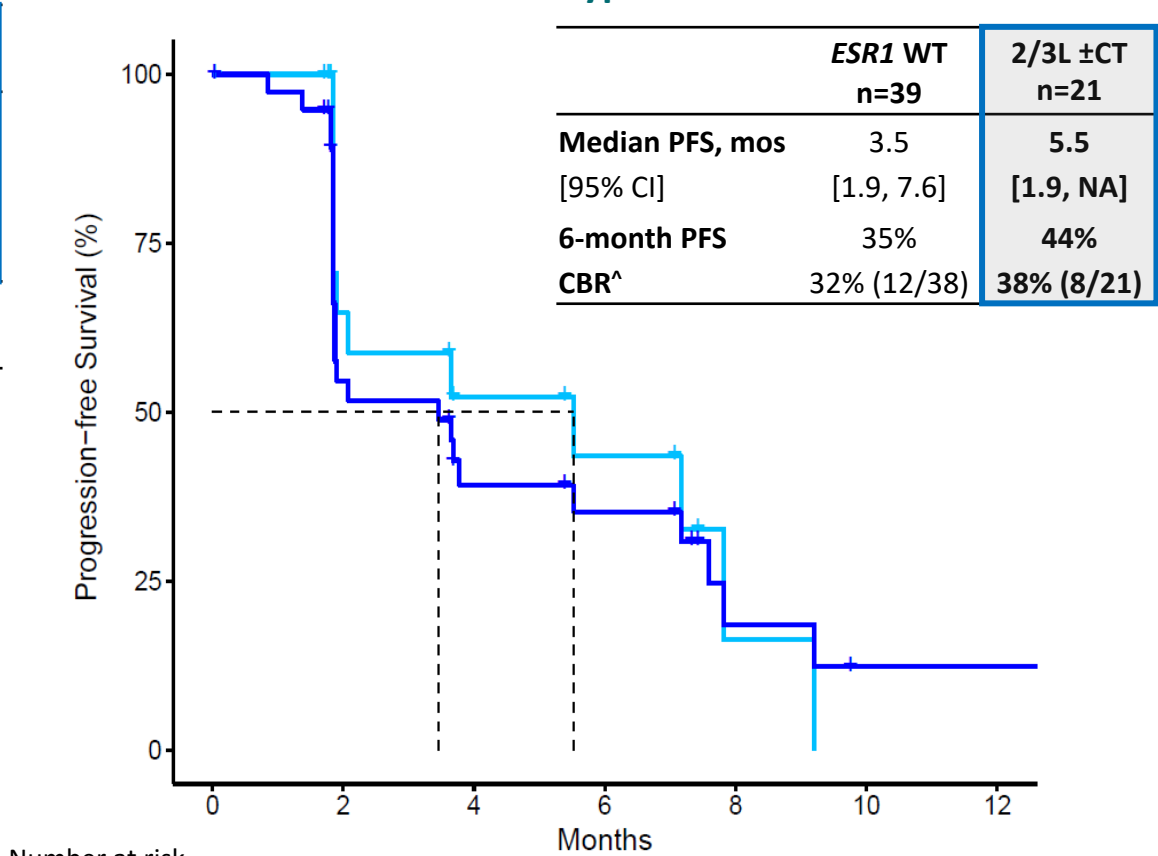
Progression-Free Survival Across *ESR1*-Mutant and Wild-Type Patients

Median PFS of 7.3 months in *ESR1*-mutant; 5.5 months in Wild-Type for EMERALD-eligible 2/3L ± CT Patients*

Patients with *ESR1* Mutation¹



Patients with *ESR1* Wild-Type²



Number at risk

All	36	21	18	12	4	0	0
2/3L ±CT	23	14	13	10	2	0	0

Number at risk

All comers	39	19	11	9	3	1	1
2/3L+/-CT	21	11	7	5	1	0	0

* NOTE: This analysis is the aggregation of results across independent studies. There are risks inherent in conducting cross-trial comparisons. Refer to further disclaimers on slide 2.
Abbreviations: 2/3L, second/third line; ± CT, plus/minus chemotherapy; CBR, clinical benefit rate; CI, confidence interval; *ESR1*, estrogen receptor 1 gene; mos, months; WT, wild-type; mut, mutation; NA, not applicable; PFS, progression-free survival.

¹ Palazestrant Phase 2 dataset with *ESR1* mutations detected at baseline. ² Palazestrant Phase 2 dataset with *ESR1* mutations not detected at baseline

[^]Clinical Benefit Rate (CBR) is defined as the proportion of subjects who remained on OP-1250 treatment through at least 24 weeks with a confirmed CR or PR, or stable disease. The CBR analysis includes patients who received at least one evaluable post-baseline radiographic assessment. Data cut-off as of July 7, 2023.

OPERA-01 Designed to Show Effectiveness over Standard of Care

510-Patient Phase 3 2/3L Monotherapy Trial vs. Standard of Care (SoC)



INCLUSION CRITERIA

- 1-2 prior lines of endocrine therapy
- Prior treatment with a CDK4/6 inhibitor
- Minimum 6 months on last endocrine therapy

N = 510

1:1:1

PART 1: Dose Selection

n = 40

Palazestrant
120 mg

n = 40

Palazestrant
90 mg

n = 40

SoC Endocrine
Therapy

STRATIFICATION:

1. Visceral metastasis: Yes vs No
2. Prior ET lines: 1 vs 2
3. *ESR1* mut vs *ESR1* mut-nd

PART 2: Assessment Of Dose

n = 195 (total 235)

Palazestrant
selected dose

1:1

n = 195 (total 235)


SoC Endocrine
Therapy

Treatment
until disease
progression,
intolerable
toxicity

Study Initiated in 4Q2023. Results Expected in 2026.

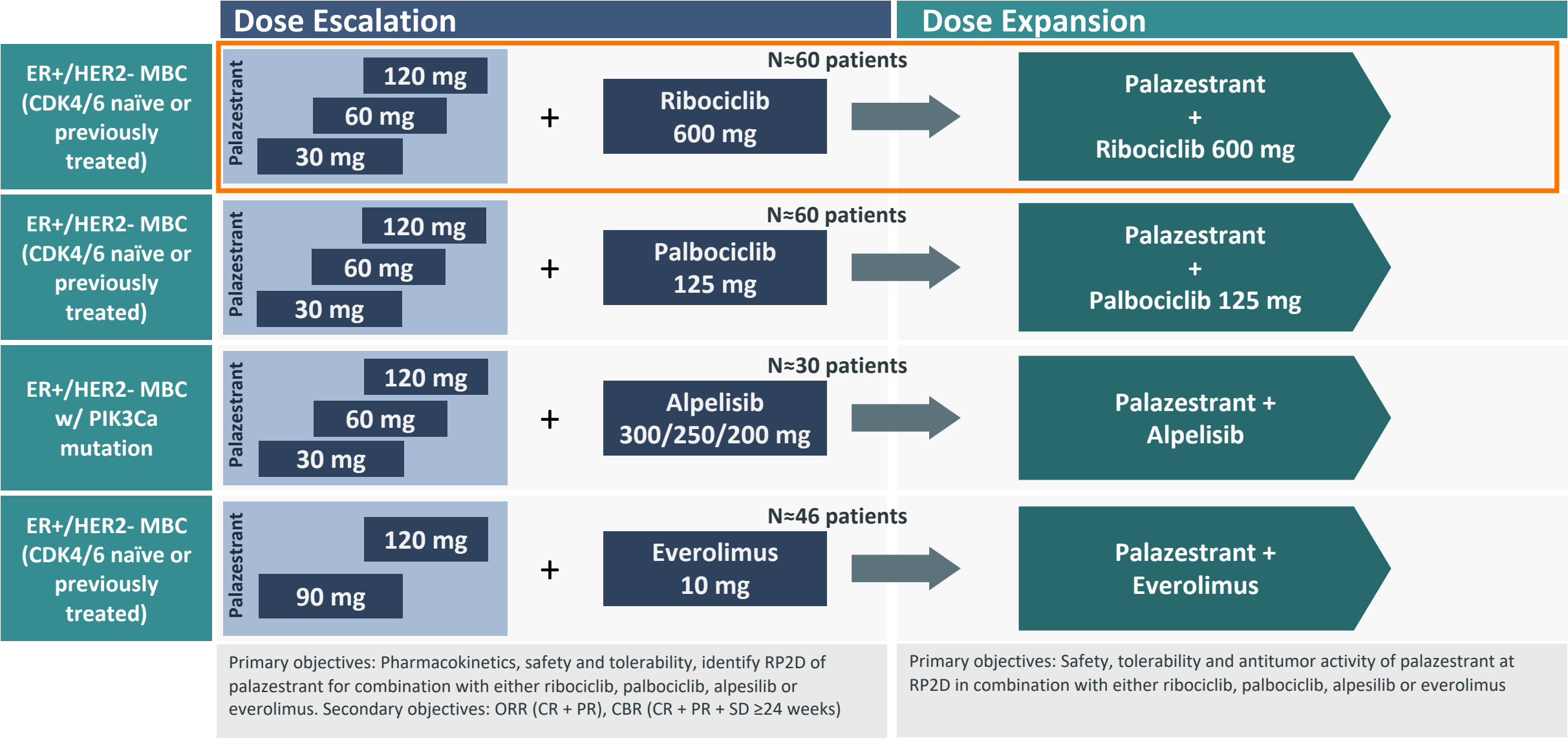
For more details on this trial, please visit www.opera01study.com.

Abbreviations: **CDK4/6i**, cyclin dependent kinase 4/6 inhibitor; **ESR1**, estrogen receptor 1 gene; **SoC**, standard of care; **ET**, endocrine therapy; **mut**, mutation; **mut-nd**, mutation not detected



Palazestrant Combination with CDK4/6 Inhibitors for First-Line Therapy

Demonstrating Palazestrant's Combinability with Other Targeted Agents



Ribociclib Combination: Combinability with the CDK4/6i-of-Preference

No significant DDIs, no DLTs, overall safety profile consistent with expected of ribociclib plus ET

Ribociclib Phase 1b combination data, enrollment ongoing



Demographics

- 19 heavily pretreated patients
- 100% were 2/3L+ at study entry
- 37% visceral disease
- 89% had prior CDK4/6i treatment
- 26% received prior chemotherapy
- 29% with activating mutations in *ESR1*



Safety: Well-tolerated with no DLTs

- Overall safety and tolerability profile consistent with ribociclib + endocrine therapy
- No DLTs were observed during dose escalation, MTD was not reached, and no dose-related increases in the incidence or severity of TEAEs was observed
- No QTcF values of >500 msec were observed at any time point



Favorable Pharmacokinetics

- Palazestrant did not affect ribociclib drug exposure in patients, and ribociclib had no clinically meaningful effect on palazestrant drug exposure

Ribociclib Combination: Treatment Emergent Adverse Events

Well tolerated with no DLTs; No grade 4 TEAEs reported

Most Common Treatment-Emergent Adverse Events

TEAEs in ≥20% of Patients	Olema Study 003 Ribociclib + Palazestrant ^(a)			MONALEESA-2 Ribociclib + Letrozole ^(b,c)		
	(n=19)			(n=334)		
	All grades	Grade 3	Grade 4	All grades	Grade 3	Grade 4
Nausea	12 (63%)	1 (5%)	0	52%	2%	0%
Neutropenia ^d	11 (58%)	7 (37%)	0	93% ^e	49% ^e	11% ^e
WBC decr.	8 (42%)	2 (11%)	0	93% ^e	31% ^e	3% ^e
Anemia	7 (37%)	1 (5%)	0	57% ^e	2% ^e	0% ^e
Fatigue	7 (37%)	1 (5%)	0	37%	2%	<1%
Constipation	5 (26%)	0	0	25%	1%	0%
Diarrhea	5 (26%)	0	0	35%	1%	0%
Hyperglycemia	4 (21%) [#]	0	0	NA	NA	NA
Hypotension	4 (21%)	0	0	NA	NA	NA

- No DLTs were observed during dose escalation and MTD was not reached
- No dose-related increases in the incidence or severity of TEAEs was observed
- **No grade 4 TEAEs reported**
- No QTcF values of >500 msec were observed at any time point
- Overall safety and tolerability profile consistent with ribociclib + endocrine therapy prescribing information

* NOTE: This analysis is the aggregation of results across independent studies. There are risks inherent in conducting cross-trial comparisons and results should be interpreted with caution. Refer to further disclaimers on slide 2.

Data Cutoff Date: November 1, 2023. Data shown are n or n (%).

Abbreviations: DLTs, dose-limiting toxicities; TEAE, treatment-emergent adverse event.

[#]All events Grade 1; 3 events unrelated to palazestrant or ribociclib; 1 event related to both drugs

^aIncludes 3 patients at each of 30 mg and 60 mg palazestrant and 13 patients at 120 mg palazestrant in combination with 600 mg ribociclib. ^bSource: NVS Kisqali (ribociclib) Prescribing Information, 2017

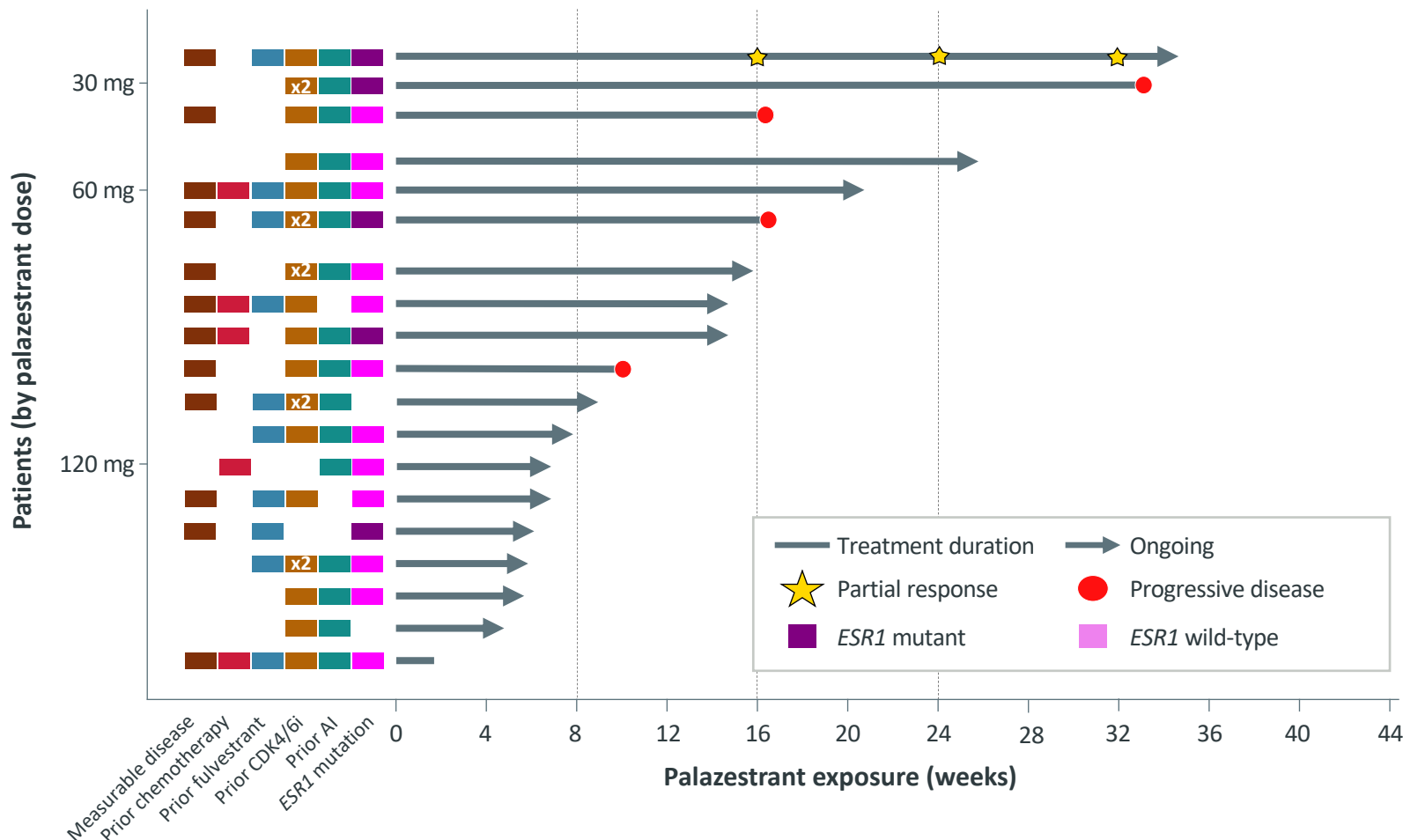
^cAdverse reactions reported in ≥10% of patients who received ribociclib plus letrozole in the MONALEESA-2 study. ^dCombined term includes neutropenia and decreased neutrophil count.

^eReported as neutrophil count, hemoglobin, and leukocyte decreased in the laboratory abnormalities in the MONALEESA-2 study.

Ribociclib Combination: Preliminary Efficacy

Promising efficacy data are maturing

Duration of Treatment as of November 1, 2023^a (n=19)



- Confirmed partial response has been observed in one patient to date (30mg palazestrant)
- Longest duration of treatment is 34 weeks
- Efficacy data are maturing; 14/19 patients (74%) remain on treatment; enrollment ongoing

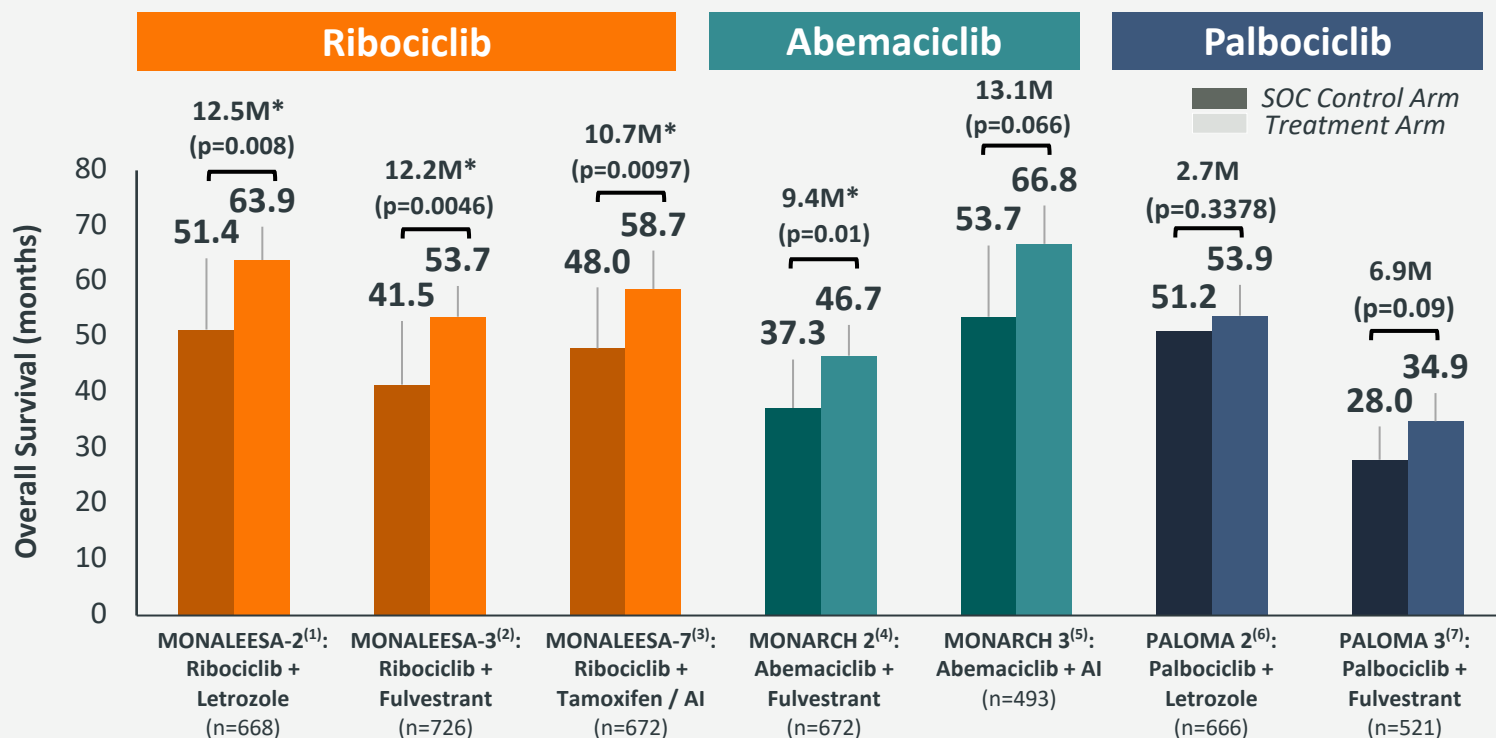
Data Cut-off Date: November 1, 2023.

^aEach lane represents one patient.

Abbreviations: AI, aromatase inhibitor; CDK4/6i, cyclin-dependent kinase 4/6 inhibitor; ESR1, estrogen receptor 1 gene

Ribociclib Only CDK4/6i with Confirmed OS Benefit in Combo with AI

CDK4/6is were approved with PFS but ribociclib has strongest evidence of OS benefit



- No statistically significant OS benefit for palbociclib 1L combinations or for abemaciclib + AI
- NCCN guidelines recommend three regimens that have shown OS benefit in Phase 3 randomized controlled studies as **Category 1 preferred** for 1L treatment of patients with HR+/HER2- mBC :
 - ribociclib + endocrine therapy
 - ribociclib + fulvestrant
 - abemaciclib + fulvestrant
- The CDK 4/6 inhibitors have varying potency, selectivity, and PK which also impacts tolerability profiles

If Phase 3 clinical trial initiated, Palazestrant will be the only novel ET combined with ribociclib in a pivotal trial; all other combinations include palbociclib or physician choice CDK4/6i

* NOTE: This analysis is the aggregation of results across independent studies. There are risks inherent in conducting cross-trial comparisons and results should be interpreted with caution. Refer to further disclaimers on slide 2.

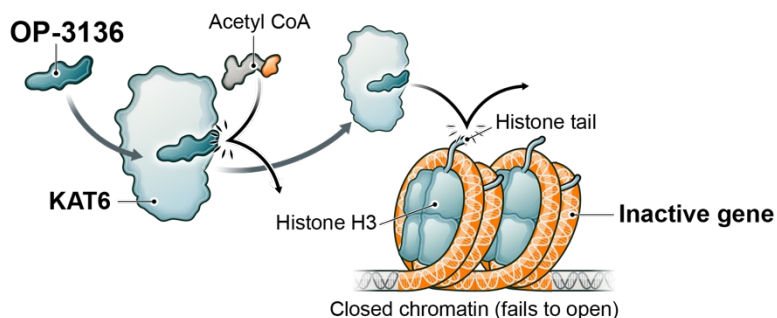
Source: (1) Hortobagyi G.N., et al. Overall Survival with Ribociclib plus Letrozole in Advanced Breast Cancer. NEJM. 2022;386:942-950; (2) Salmon D.J., et al. Overall Survival with Ribociclib plus Fulvestrant in Advanced Breast Cancer. NEJM. 2020;382:514-524; (3) Im S.-A., et al. Overall Survival with Ribociclib plus Endocrine Therapy in Breast Cancer. NEJM. 2019;381:307-316; (4) Sledge G.W., Jr., et al. MONARCH 2: Abemaciclib in Combination with Fulvestrant in Women with HR+/HER2- Advanced Breast Cancer Who Had Progressed While Receiving Endocrine Therapy. J. Clin. Oncol. 2017;35:2875-2884; (5) Toi M., et al. MONARCH 3: Final Overall Survival Results of Abemaciclib Plus a Nonsteroidal AI as First-line Therapy for HR+, HER2- Advanced Breast Cancer. SABCs 2023 GS01-12 ; (6) Finn R.S., et al. Palbociclib and Letrozole in Advanced Breast Cancer. NEJM. 2016;375:1925-1936; (7) Cristofanilli M., et al. Fulvestrant plus palbociclib versus fulvestrant plus placebo for treatment of hormone-receptor-positive, HER2-negative metastatic breast cancer that progressed on previous endocrine therapy (PALOMA-3): Final analysis of the multicentre, double-blind, phase 3 randomised controlled trial. Lancet Oncol. 2016;17:425-439



Preclinical Program – OP-3136 KAT6 Inhibitor

OP-3136 – Olema KAT6 Inhibitor Development Candidate

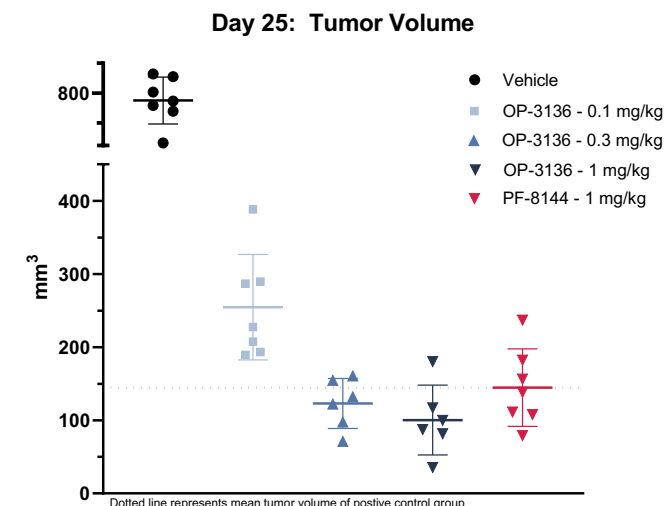
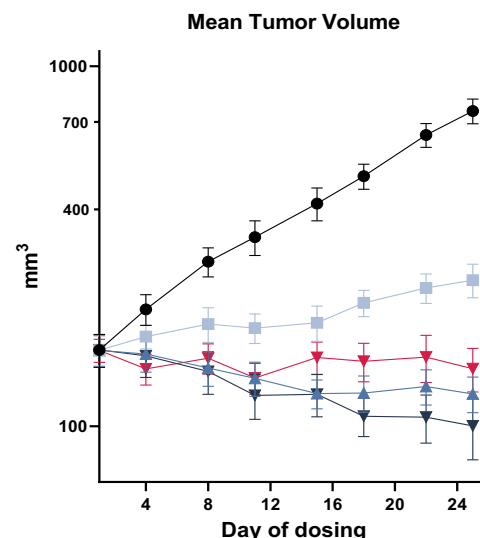
OP-3136 KAT6i Inhibitor Mechanism



KAT6 inhibition by OP-3136 **stops** acetylation of histones and **blocks** transcription of proliferation-associated genes (ER, MYC, etc.)

- KAT6 is a clinically validated target¹ and its overexpression correlated with worse clinical outcomes in ER+ breast cancer²
- KAT6 inhibition downregulates genes involved in **estrogen receptor signaling** and other signaling pathways³

OP-3136 demonstrates anti-tumor activity in xenograft models



- OP-3136 is **potent and selective** against KAT6A/B
- Orally bioavailable with **high levels of free drug exposure**
- **OP-3136 synergizes with palazestrant** and CDK4/6 inhibitors in preclinical models

OP-3136 demonstrates activity in both ESR1 wild-type and mutant breast cancer cell lines, synergizes with ERα and CDK4/6 inhibitors, and causes tumor reduction in ER+ breast cancer models

Abbreviations: **CDK4/6i**, cyclin dependent kinase 4/6 inhibitor; **ER+**, estrogen receptor-positive; **ESR1**, estrogen receptor 1 gene; **KAT6i**, lysine acetyltransferase 6 inhibitor

References: 1. Sommerhalder D, et al. First-in-human ph 1 dose escalation study of the KAT6 inhibitor PF-07248144 in patients with advanced solid tumors. JCO. 2023. 41(16)1054-1054;

2. Yu L, et, al. Identification of MYST3 as a novel epigenetic activator of ERα frequently amplified in breast cancer. Oncogene. 2017 May 18;36(20):2910-2918

3. Sharma S, et al. Discovery of a highly potent, selective, orally bioavailable inhibitor of KAT6A/B histone acetyltransferases with efficacy against KAT6A-high ER+ breast cancer.

Cell Chemical Biology. 30, 1–20

Note: Olema KAT6 inhibitors discovered in collaboration with Aurigene

Olema: A Compelling Late-Stage Opportunity in Women's Oncology

- ✓ Palazestrant is highly differentiated within the new class of endocrine therapies
- ✓ Compelling Phase 2 monotherapy data positions OPERA-01 phase 3 trial for success
- ✓ Palazestrant full-dose combinations with CDK4/6 inhibitors position it for first-line indication
- ✓ Management and Board with deep experience and history of success
- ✓ Well-capitalized with ~\$261.8M of cash and cash equivalents as of December 31, 2023¹

¹ Cash position as of December 31, 2023, includes the Company's cash, cash equivalents, and marketable securities.



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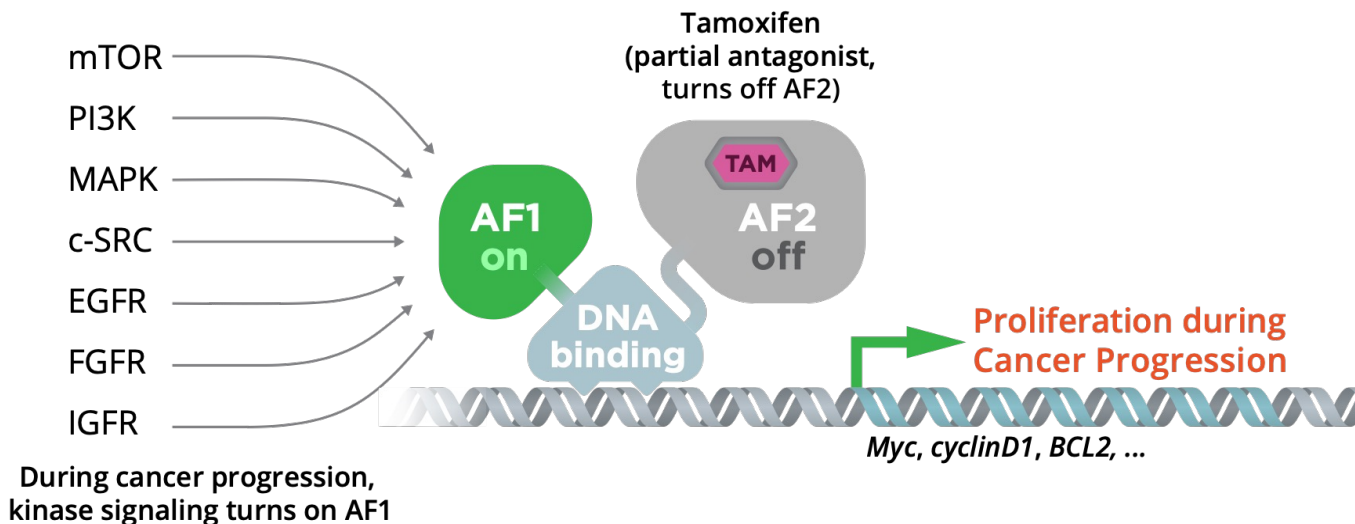


Appendix: Understanding Palazestrant's Mechanism of Action

Palazestrant: a Complete Estrogen Receptor Antagonist (CERAN)

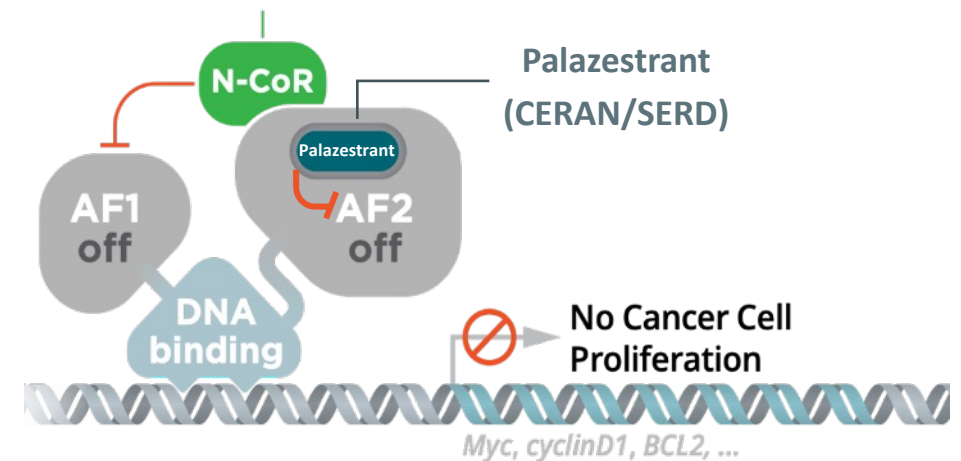
Palazestrant potently and completely inactivates the Estrogen Receptor (ER), blocks ER-driven transcriptional activity, inhibits ER-driven breast cancer cell growth, and strongly induces degradation of ER

Partial Antagonists Have a Short Duration of Response for Treatment of Metastatic Breast Cancer



SERM/SERDs block AF2 activity, but enable AF1 activation

Complete antagonists turn off AF2 and recruit N-CoR to inactivate AF1

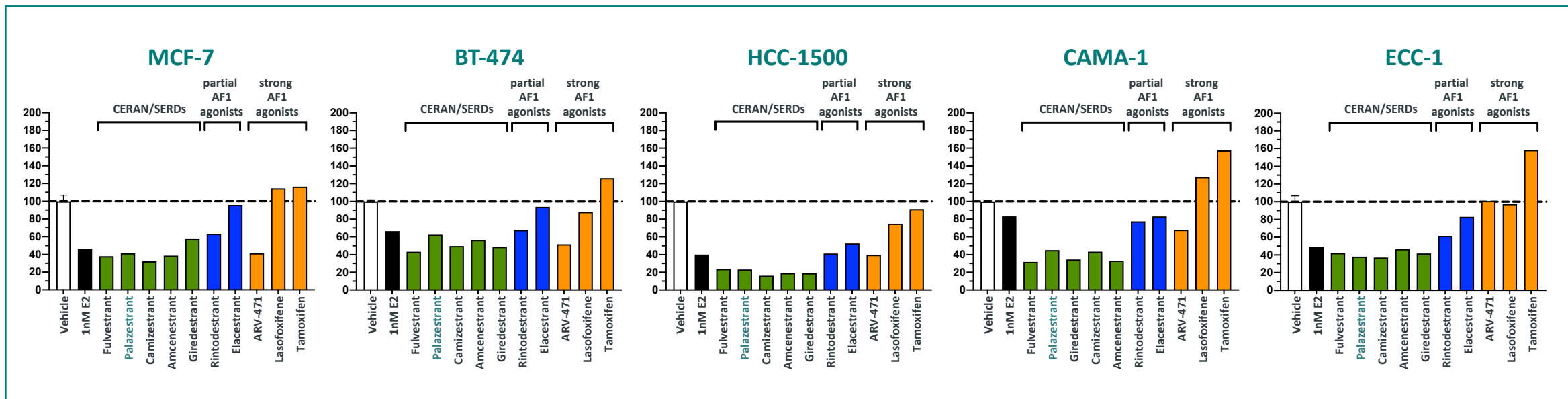


AF1: activation factor 1

AF2: activation factor 2

References: Shang and Brown, *Science*, 2002: Vol. 295, Issue 5564, pp. 2465-2468 ; Webb, Nguyen, and Kushner, *JBC*, 2003: Vol. 278, pp. 6912-6920

Both CERAN/SERDs and SERM/SERDs Are Strong Degraders of ER α



Palazestrant and CERAN/SERDs strongly degraded the estrogen receptor (ER) in five ER+ cell lines

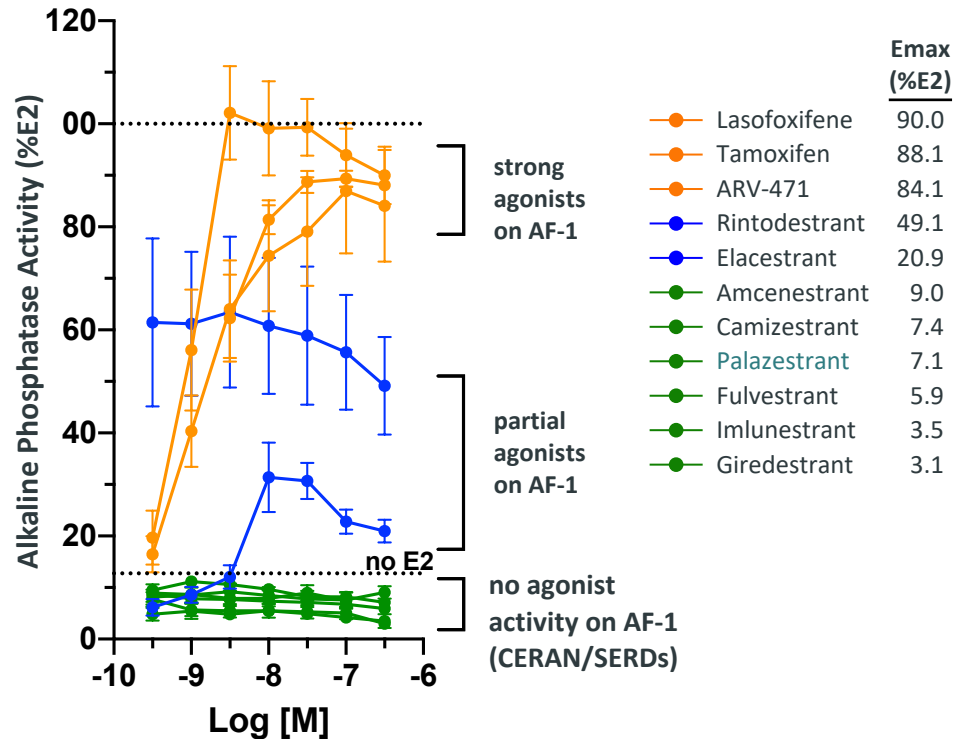
Partial and strong agonists demonstrated variable and inconsistent ER degradation

Estradiol (E2), the prototypical agonist of ER α , degraded ER α in all five ER+ cell lines

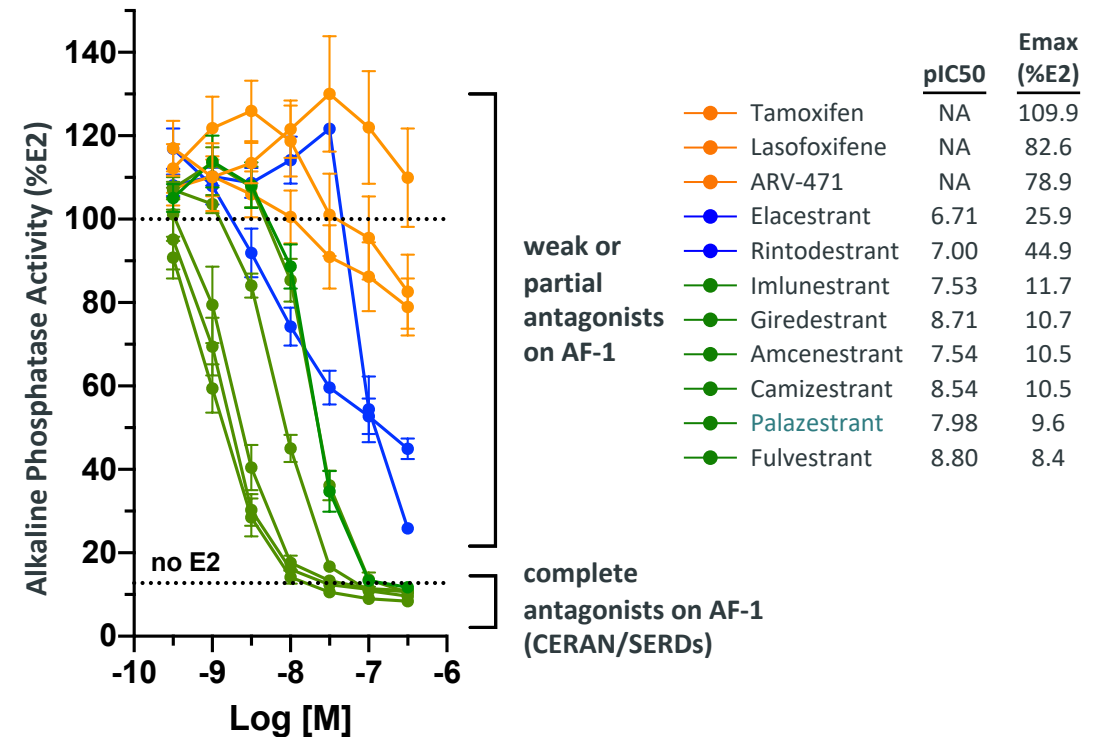
In all cases, none of the compounds achieved full ER degradation; complete ER antagonism is independent from degradation and key to inactivating remaining ER receptor

CERAN/SERDs Inactivate Both AF1 & AF2 Activity, While SERM/SERDs Only Inactivate AF2

Agonist Mode (No Estrogen)



Agonist Mode (+ Estrogen)

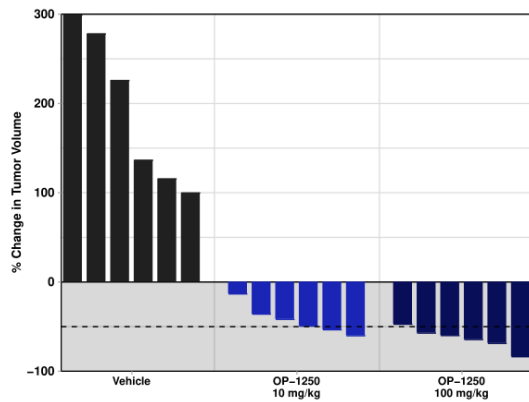
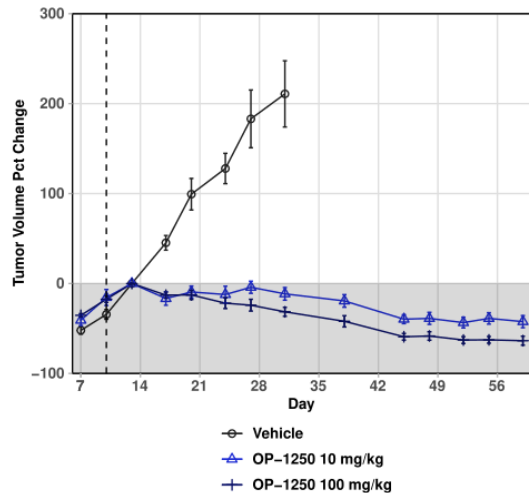


CERAN/SERDs completely inactivate AF1 activity of the estrogen receptor, while partial and strong agonists (SERM/SERDs) do not fully inhibit AF1 activity.

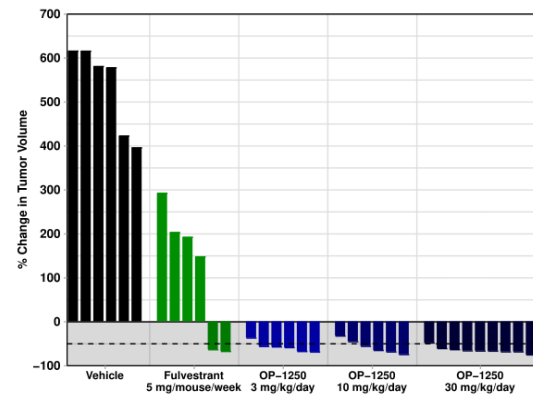
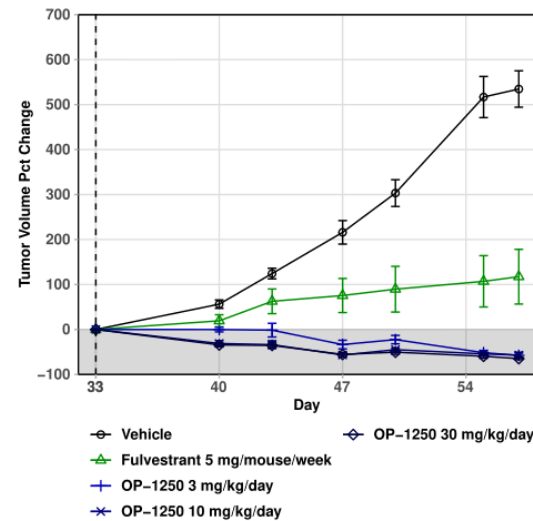
Xenograft Efficacy Studies: Palazestrant vs. Fulvestrant

Palazestrant Demonstrates Tumor Shrinkage Across Multiple Xenograft Models

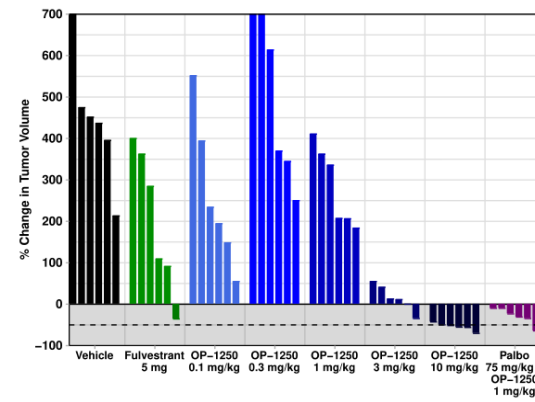
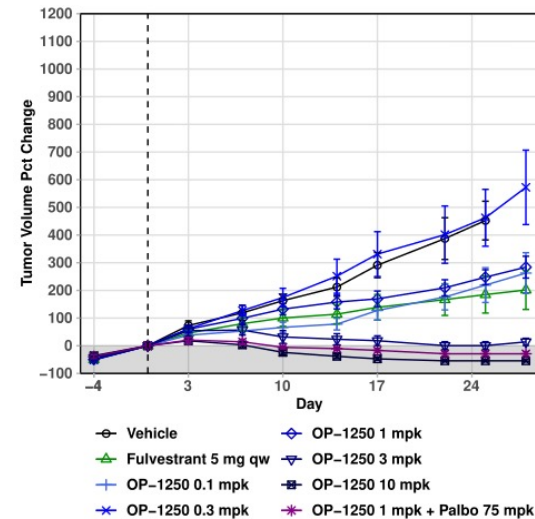
MCF-7 (HER2/neu)



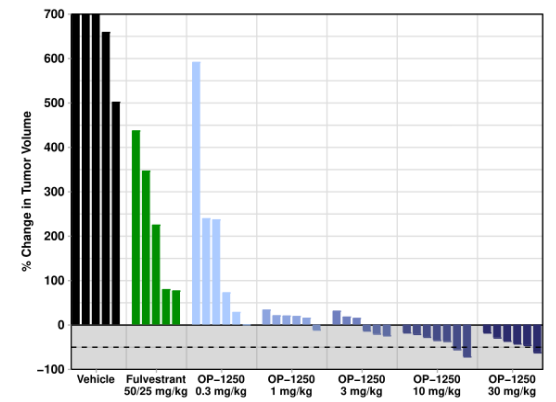
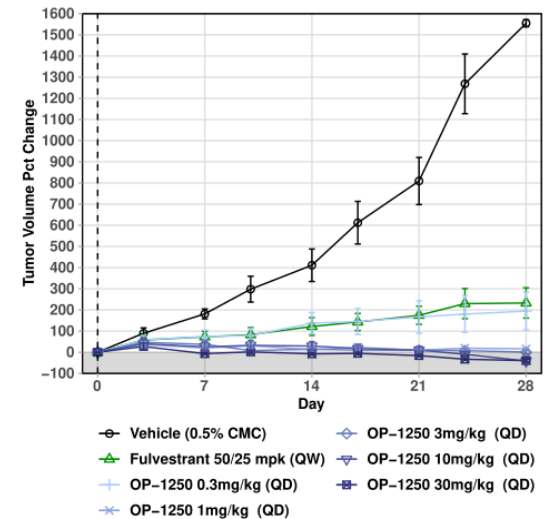
HCC1500



ST941



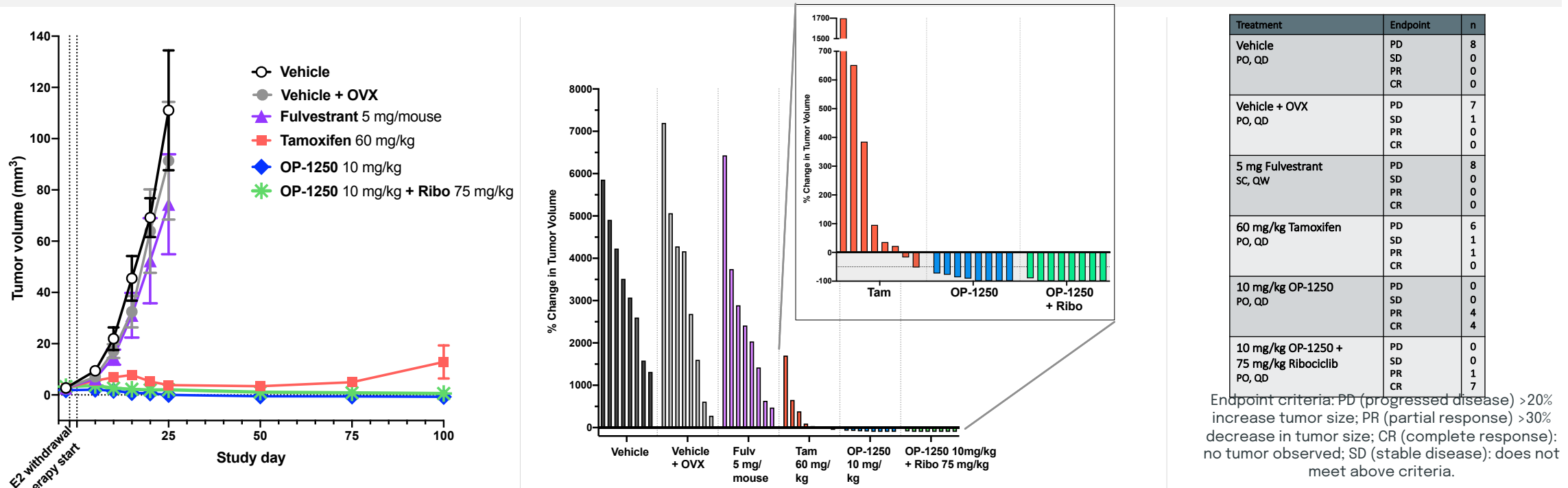
HCI-013



Palazestrant Has Demonstrated Activity in CNS Metastases Models

AACR 2021: Intracranial Breast Cancer Brain Metastases Xenograft Study

10 mg/kg palazestrant is superior to tamoxifen, fulvestrant and ovariectomy in shrinking mutant ESR1-Y537S tumors in an intracranial model of ER+ breast cancer brain metastasis



After 100 days, tumors in mice treated with palazestrant remain small or undetectable while tumors in mice treated with fulvestrant and tamoxifen have started to grow.