



Corporate Overview

Advancing medicines for breast cancer and beyond

— Forward-looking statements and legal disclaimer

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. Words such as “aim,” “anticipate,” “aspire,” “believe,” “estimate,” “expect,” “goal,” “intend,” “may,” “milestone,” “plan,” “potential,” “priority,” “project,” “will,” and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements necessarily contain these identifying words. 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 candidates or any other future product candidates, our capital and other financial results, our strategy, market size and opportunity for palazestrant (OP-1250) and OP-3136 in the U.S. and globally, clinical trial designs, regulatory matters, including the timing and likelihood of obtaining drug approvals and timing and likelihood of securing one or more approved indications for palazestrant, the timelines for the potential initiation of clinical trials and the result of any such clinical trials of palazestrant or OP-3136 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 pivotal Phase 3 clinical trial of palazestrant in combination with ribociclib, the timelines for patient enrollment and presenting data from our clinical trials, and the timing of any potential commercial launch and related preparatory work, including but not limited to establishing manufacturing supply and distribution for commercial use, anticipated field force of representatives in the U.S., the timing and likelihood of generating stockholder value, the sufficiency and potential beneficial characteristics, profile, safety, tolerability, efficacy and therapeutic effects of palazestrant as a monotherapy and in combination trials, the progression-free and overall survival rate under palazestrant in combination trials, the potential of palazestrant to become a therapeutic leader and a best-in-class treatment option for metastatic breast cancer and a backbone therapy for women living with breast cancer and beyond, the combinability of palazestrant with other drugs, the potential value and impact of our KAT6 inhibitor program, the best-in-class potential for OP-3136 as a monotherapy or in combination trials, including for breast and other solid tumor cancers, the potential beneficial characteristics, profile, safety, efficacy, tolerability, and therapeutic effects of OP-3136, including potential safety advantages of OP-3136 over alternative products, the combinability of OP-3136 with other drugs including palazestrant, our opportunity in breast, other solid tumor cancers, and beyond, our ability to impact treatment for endocrine-driven cancers, and the future growth potential of ribociclib. 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 other filings and reports the Company files with the Securities and Exchange Commission from time to time. 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, in monotherapy or in combination, or OP-3136 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 is focused on transforming the metastatic breast cancer treatment paradigm



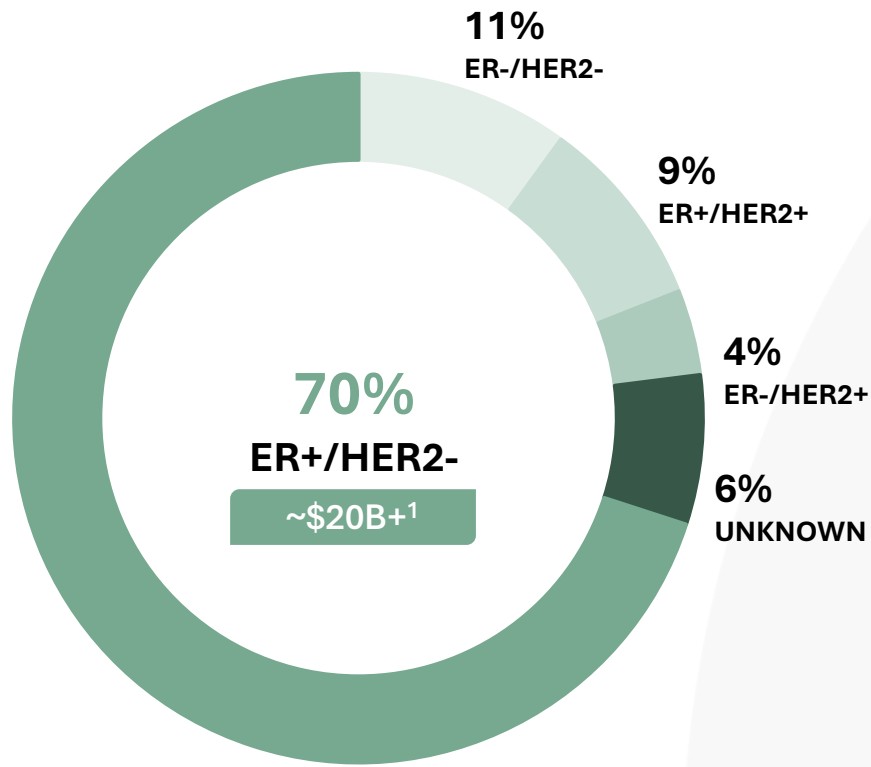
TRANSFORMING THE TREATMENT PARADIGM

Advancing palazestrant with blockbuster potential in 2/3L MBC as a monotherapy and in 1L MBC in combination with ribociclib

Progressing OP-3136, our potent and potential best-in-class KAT6 inhibitor

— The ER+/HER2- global metastatic breast cancer market presents a \$20B+ opportunity¹

The majority of all breast cancers are ER+/HER2-²



<p>Adjuvant ER+/HER2- MBC</p>	<p>Patients³ ~200K+</p> <p>Duration of Therapy⁴ Up to 5 years</p> <p>Global Market Potential⁵ \$20B+</p>
<p>1L ER+/HER2- MBC</p> <p>OPERA⁻⁰² Breast Cancer Study</p>	<p>Patients³ ~100K+</p> <p>Duration of Therapy⁴ ~6-36+ months</p> <p>Global Market Potential⁵ \$10B+</p>
<p>2/3L ER+/HER2- MBC</p> <p>OPERA⁻⁰¹ Breast Cancer Study</p>	<p>Patients³ ~150K+</p> <p>Duration of Therapy⁴ ~2-12+ months</p> <p>Global Market Potential⁵ \$5B+</p>
<p>OP-3136</p> <p>Phase 1 study in ER+/HER2- MBC currently enrolling</p>	<p>Anti-Tumor Activity in Multiple Tumor Types</p> <p>Synergizes with Palazestrant</p> <p>Global Market Potential⁵ \$5B+</p>

Palazestrant has the potential to become a best-in-class, backbone endocrine therapy for metastatic breast cancer

Line	Current Standard of Care	Duration of Therapy ¹
Low Risk Adjuvant	Tamoxifen	Up to 5 years
Moderate to High-Risk Adjuvant	AI +/- CDK4/6i	Up to 5 years
1L	AI + CDK4/6i	~6-36+ months
2L/3L	ET, ET + CDK4/6i, ET + mTOR, or AKTi or PI3Ki	~2-12+ months
3L+	Chemotherapy or ADC (Enhertu, Trodelvy)	~2-12+ months

Palazestrant has the right properties to succeed



Complete ER antagonism



Activity in *ESR1* wild-type and mutant tumors



Well-tolerated and combinable at full doses



Optimal PK profile with oral administration

Designed to help patients feel better, longer

¹Olema internal data, based on clinical trial data and package inserts.

1L = frontline; **2/3L** = second/third-line; **3L+** = more than three lines of therapy; **ADC** = antibody-drug conjugate; **AI** = aromatase inhibitor; **AKTi** = serine/threonine protein kinase 1; **CDK4/6i** = cyclin-dependent kinase 4/6 inhibitor; **CNS** = central nervous system; **ER** = estrogen receptor; **ESR1** = estrogen receptor 1 gene; **ET** = endocrine therapy; **HER2** = human epidermal growth factor receptor 2; **mTORi** = mammalian target of rapamycin inhibitor; **PI3Ki** = phosphatidylinositol 3-kinase inhibitor; **PK** = pharmacokinetic

Palazestrant monotherapy in 2/3L ER+/HER2- MBC offers our first opportunity for market entry in 2027

Palazestrant has the potential to become the best-in-class single agent endocrine therapy and improve upon current standard of care

Differentiated Efficacy Profile

Median PFS¹ of:

- 7+ months in 2/3L ±CT *ESR1* mutant
- 5+ months in 2/3L ±CT *ESR1* wild-type

Promising Safety

- Well-tolerated
- Most AEs were low grade (1/2)

Favorable Pharmacokinetics

- High oral bioavailability
- Dose proportional exposure
- Long half-life supports once-daily dosing

Palazestrant's approval in *ESR1* mutant and wild-type tumors in the 2/3L ER+/HER2- MBC setting would be paradigm-shifting



Palazestrant in combination with ribociclib has the potential to become the new standard of care in 1L ER+/HER2- MBC

Emerging resistance mutations, AEs, and suboptimal drug exposure limit the utility of currently approved therapies in 1L MBC

Combination Partner of Choice

Ribociclib is quickly becoming the CDK4/6i of choice for MBC¹

- OPERA-02 Phase 3 trial combines palazestrant with ribociclib in 1L MBC

Differentiated Efficacy Profile

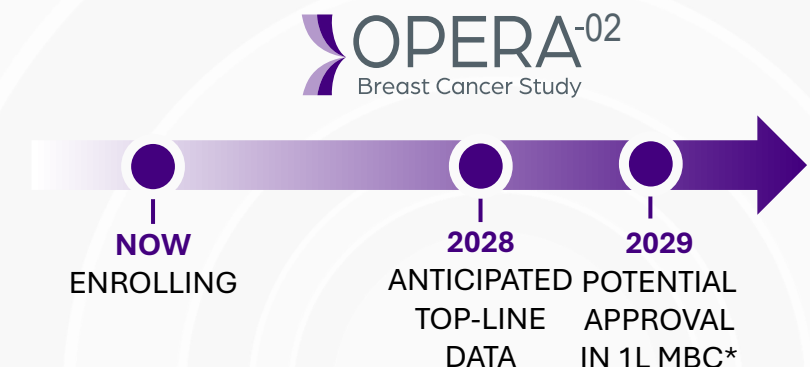
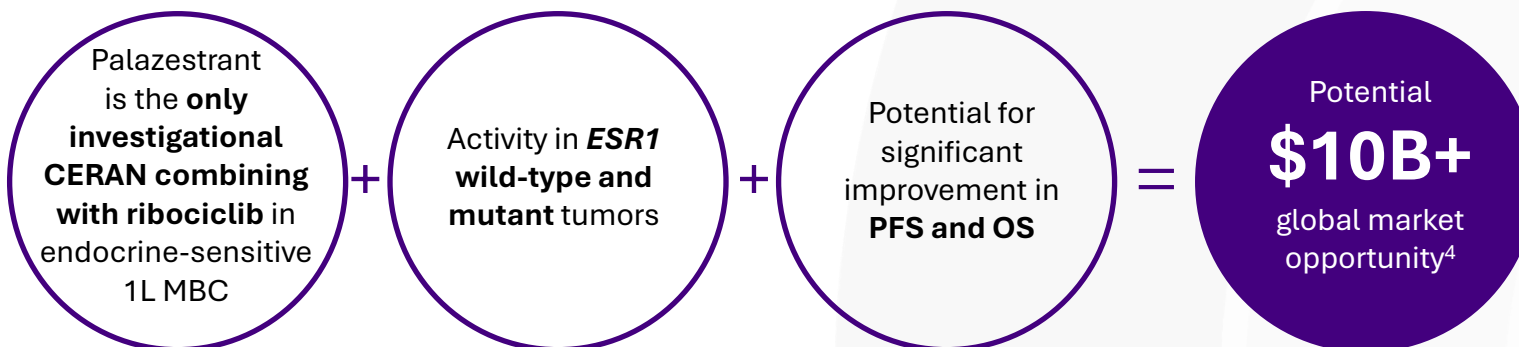
In the 120 mg dose cohort, median PFS in patients previously treated with a CDK4/6i + ET:

- 13.8 months in 2L+ *ESR1* mutant²
- 9.2 months in 2L+ *ESR1* wild-type²

Promising Safety

- Palazestrant + ribociclib safety profile is consistent with the established label of ribociclib + ET³
- No dose modifications required

By targeting the right patients, with the right properties, with the right combo partner, palazestrant has the potential to succeed in 1L MBC

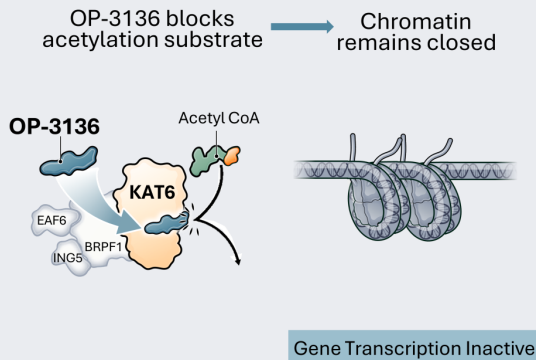


¹ Novartis full year earnings reports, 2018-2024. ² ESMO 2025 Poster. Data cutoff date: July 8, 2025. ³ This analysis is based on the aggregation of results across independent studies. There are risks inherent in conducting cross-trial comparisons and results should be interpreted with caution. Refer to further disclaimers on slide 2. Data cutoff date: February 18, 2025. Median follow-up of 15 months. ⁴ Estimated global market potential. Olema internal data. *Subject to U.S. Food and Drug Administration approval. 1L = frontline; 2L = second-line; AEs = adverse events; CDK4/6i = cyclin-dependent kinase 4/6 inhibitor; ER+ = estrogen receptor positive; *ESR1* = estrogen receptor 1 gene; ET = endocrine therapy; HER2- = human epidermal growth factor receptor 2 negative; MBC = metastatic breast cancer; OS = overall survival; PFS = progression free survival

– OP-3136 has the potential to generate further value and meaningfully impact the MBC treatment landscape

KAT6 is an exciting new target in breast cancer

OP-3136 Prevents Transcription



Promising Preclinical Data in Breast Cancer

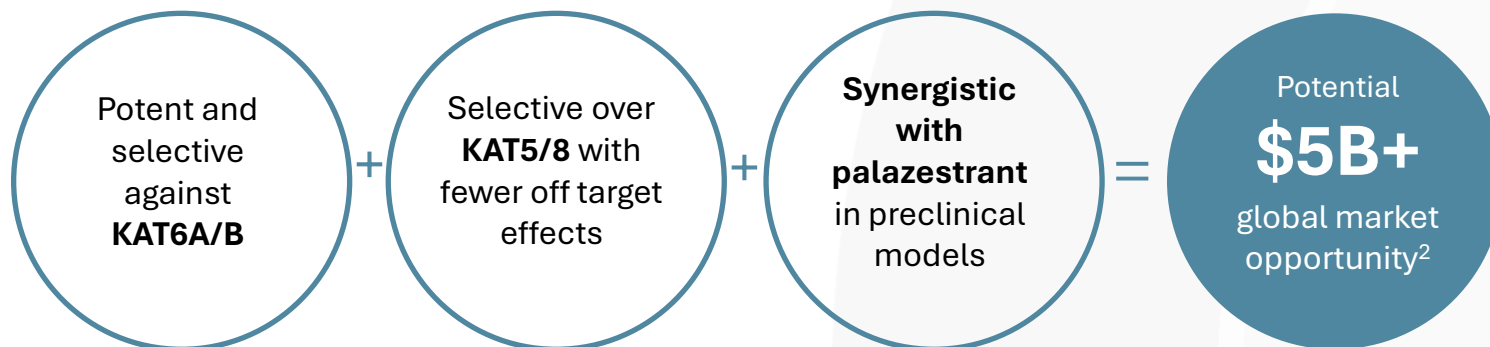
- Synergistic activity with palazestrant and superiority to KAT6 inhibitors + fulvestrant¹
- Well tolerated, with no significant changes in body weight

Promising Preclinical Data in Other Solid Tumors

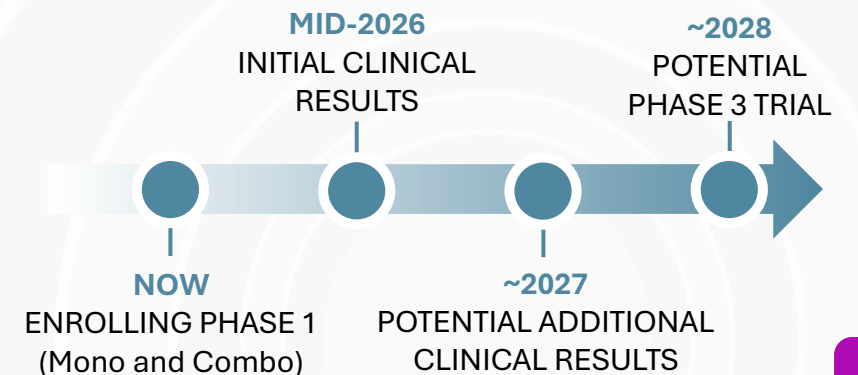
Potent anti-proliferative activity independent of KAT6 amplification or over expression across tumor models:

- Ovarian
- Non-small cell lung
- Prostate

OP-3136 has the right characteristics to become a combination agent of choice across mutations in MBC



OP-3136 PROGRAM



— We are rapidly advancing our pipeline of novel therapies through the clinic

Palazestrant: CERAN/SERD

ER+/HER2- metastatic breast cancer



Ongoing pivotal Phase 3 trial
evaluating palazestrant as a
monotherapy in 2/3L MBC

POTENTIAL
GLOBAL
MARKET
OPPORTUNITY*

\$5B+



Ongoing pivotal Phase 3 trial
evaluating palazestrant
combination with ribociclib
in 1L MBC

POTENTIAL
GLOBAL
MARKET
OPPORTUNITY*

\$10B+

OP-3136: KAT6 Inhibitor

Breast cancer and other solid tumors

Ongoing Phase 1 study
evaluating OP-3136
monotherapy and combination
in advanced or metastatic:

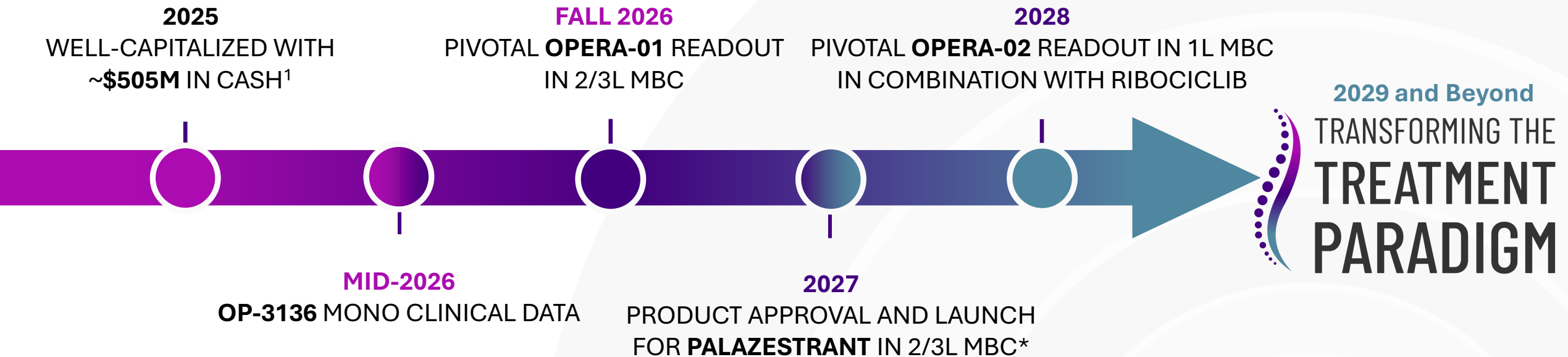
- ER+/HER2- breast cancer
- Castrate-resistant prostate cancer
- Non-small cell lung cancer

POTENTIAL
GLOBAL
MARKET
OPPORTUNITY*

\$5B+

– Value-generating catalysts advance us towards our goal of transforming the treatment paradigm for metastatic breast cancer

Corporate Priorities and Anticipated Milestones



Palazestrant

AT A GLANCE

- **Mechanism of Action**
Complete estrogen receptor antagonist (CERAN) and selective estrogen receptor degrader (SERD)
- **Stage of Development**
Monotherapy: Phase 3
In Combination: Phase 3; multiple studies in Phase 1/2
- **Special Designations**
FDA Fast Track*

2026 MILESTONES

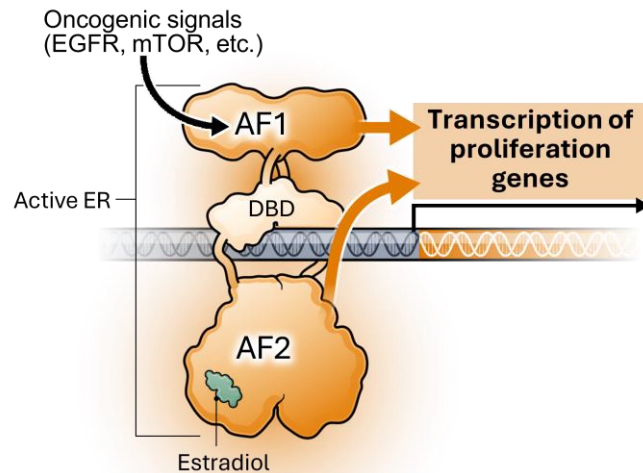
- Advance patient enrollment in pivotal Phase 3 OPERA-01 trial of palazestrant monotherapy in 2/3L MBC
- Advance patient enrollment in pivotal Phase 3 OPERA-02 trial of palazestrant + ribociclib in 1L MBC
- Announce top-line data from pivotal Phase 3 OPERA-01 trial

Palazestrant mechanism of action

Palazestrant is a differentiated oral CERAN/SERD targeting the growth and proliferation mechanism driving ER+ breast cancer

Activated ER drives cancer cell growth

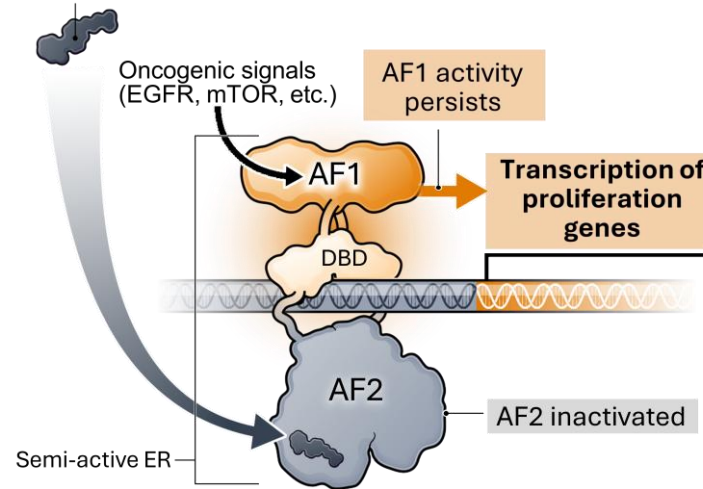
Cancer



AF - Activation factor
DBD - DNA Binding Domain

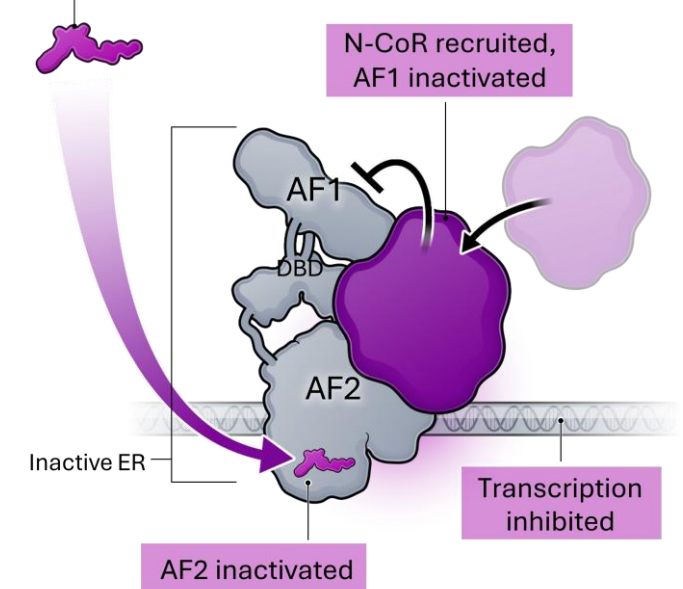
SERM/SERDs partially inactivate ER (AF2 only)

SERM/SERD



Palazestrant, a CERAN/SERD, not only degrades but also completely inactivates ER (AF1 and AF2) by recruiting N-CoR

Palazestrant (CERAN)

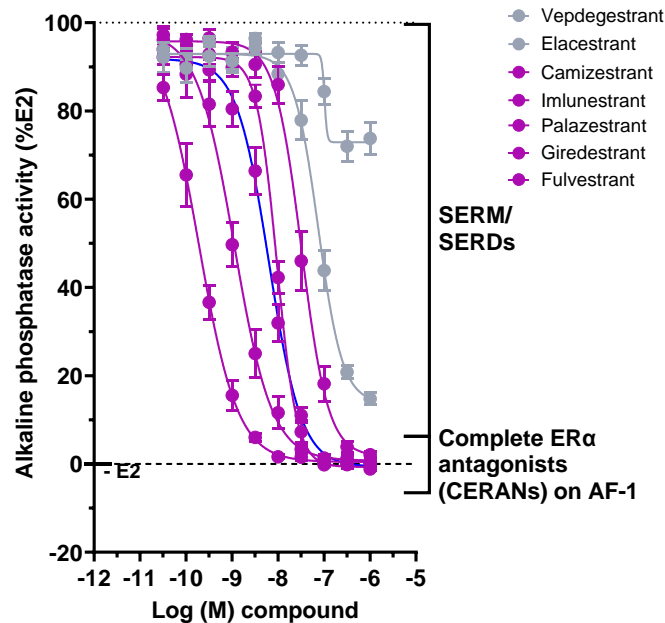


Palazestrant has the right properties to become a best-in-class agent

Palazestrant completely inactivates the ER and delivers superior therapeutic exposure

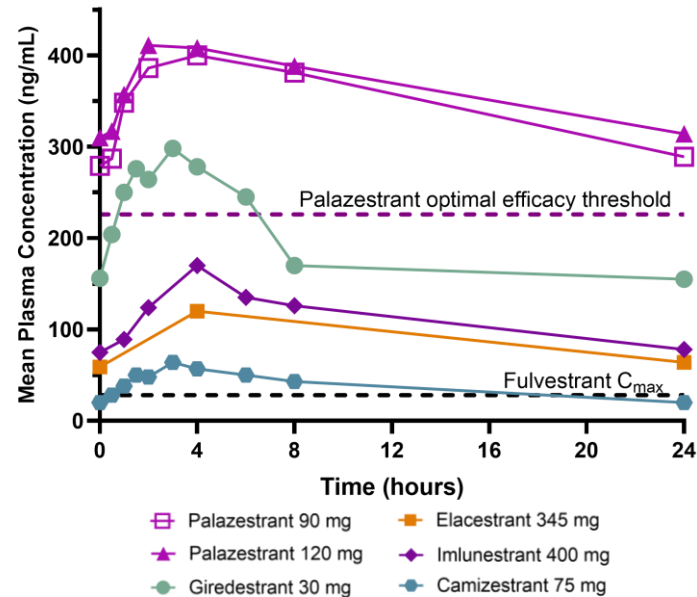
Complete ER antagonism is key to shutting off all ER signaling

Inactivating the ER (AF1):
Antagonist Mode (Estrogen Present)



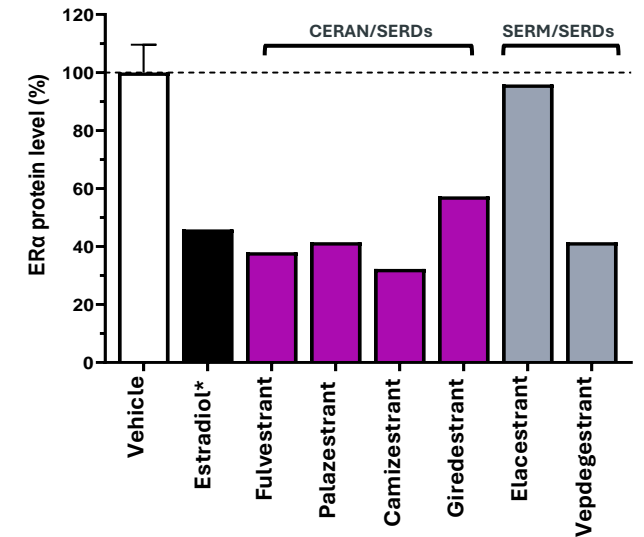
Palazestrant uniquely meets optimal drug-plasma exposure¹

Clinical Drug-Plasma
Steady-State Exposure*



Palazestrant is a potent ER degrader

MCF-7 BC Cell Line:
ER+/HER2- (*ESR1*^{WT})



Palazestrant has the potential to demonstrate activity in *ESR1* wild-type and mutant tumors and become backbone ER therapy given complete ER antagonism and optimal drug-plasma exposure

* NOTE: This analysis incorporates publicly-available third-party data that we have not independently verified. Results and outcomes presented should be interpreted with caution. Refer to further disclaimers on slide 2.

¹ Optimal drug-plasma exposure is calculated based on Olema's internal calculation.

AF = activation factor; CERAN = complete estrogen receptor antagonist; CNS = central nervous system; DBD = DNA binding domain; EGFR = epidermal growth factor receptor; ER = estrogen receptor; SERD = selective estrogen receptor degrader; SERM = selective estrogen receptor modulator; + = positive

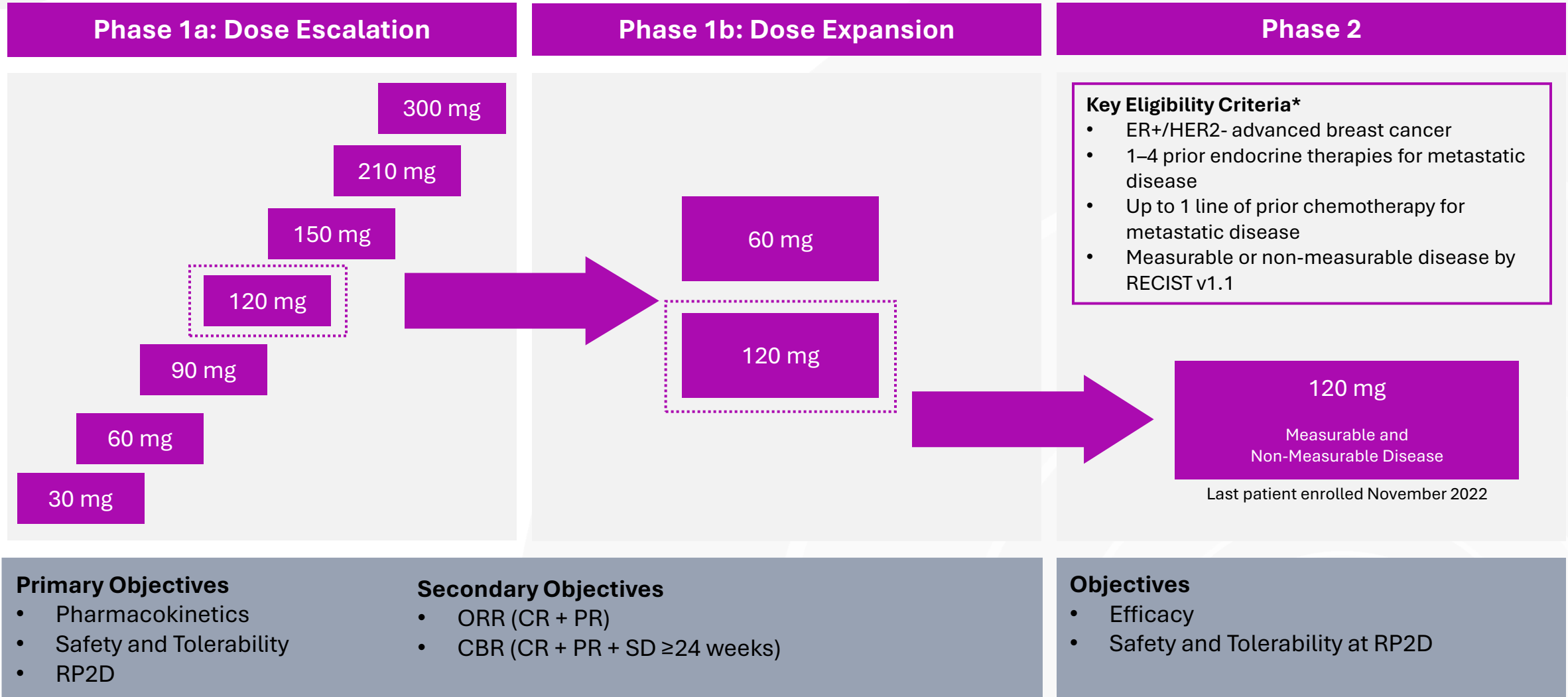
*Palazestrant as a
monotherapy in 2/3L
ER+/HER2- metastatic
breast cancer*

MILESTONES

- **2026:** Pivotal Phase 3 OPERA-01 trial ongoing
- **2026:** Announce top-line results from OPERA-01 in the Fall
- **2027:** Anticipated submission of New Drug Application for potential approval of palazestrant as a monotherapy in 2/3L ER+/HER2-MBC and prepare for commercial launch
- **2027:** Potential FDA approval and U.S. commercial launch of palazestrant

— Design: Phase 1/2 study of palazestrant as a monotherapy

In patients with advanced or metastatic ER+/HER2- breast cancer



*Phase 1a dose escalation allowed patients with at least 1 prior line of endocrine therapy and up to 2 prior lines of chemotherapy for metastatic disease.

CBR = clinical benefit rate; CR = complete response; ER+ = estrogen receptor-positive; HER2 = human epidermal growth factor receptor 2; ORR = overall response rate; PR = partial response; RECIST = Response Evaluation Criteria in Solid Tumours; RP2D = recommended phase 2 dose; SD = stable disease

– Safety: Phase 1/2 study of palazestrant as a monotherapy

Palazestrant is well-tolerated, with most TEAEs Grade 1/2

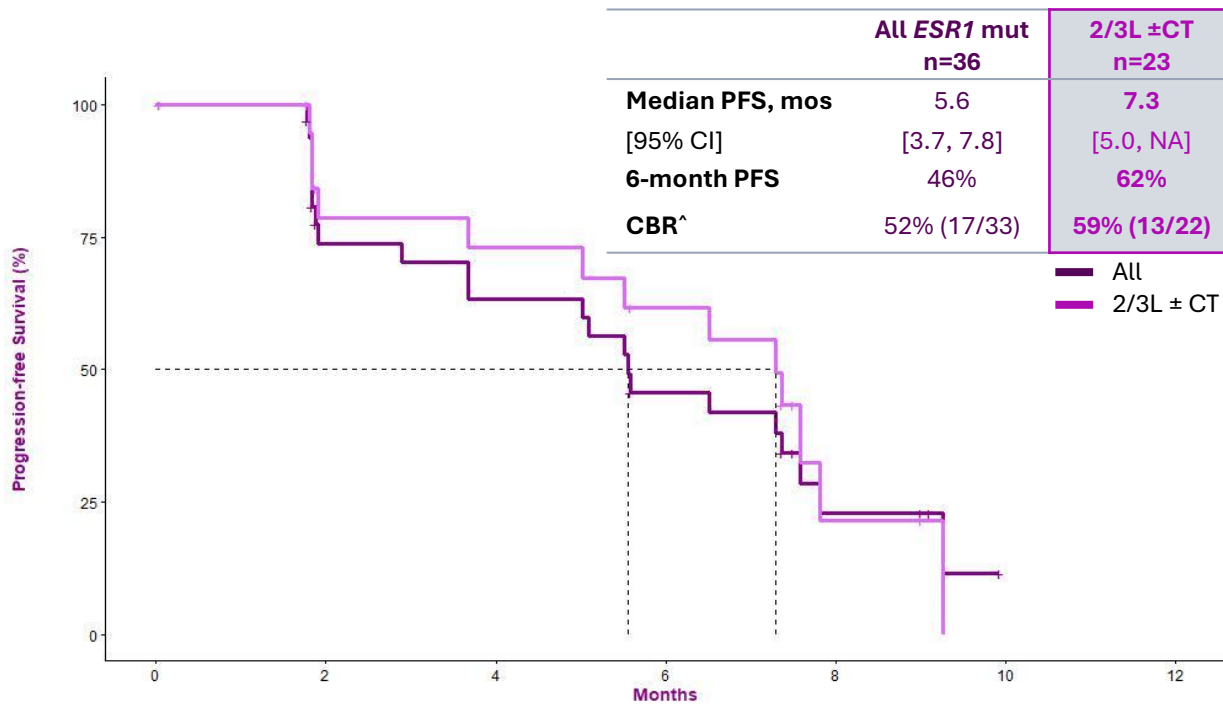
TEAEs in ≥15% of patients	Palazestrant 120 mg (n = 83)				
	Grade 1	Grade 2	Grade 3	Grade 4	All (%)
Nausea	47	4	3	0	54 (65%)
Vomiting	19	2	4	0	25 (30%)
Fatigue	13	6	3	0	22 (27%)
Neutropenia	6	6	3	6	21 (25%)
Headache	16	1	0	0	17 (20%)
Constipation	13	2	0	0	15 (18%)
AST increased	10	2	1	0	13 (16%)

- **Most AEs were low grade (grade 1/2)**
- Grade 4 neutropenia events were observed in 6 patients, occurring approximately 4–6 weeks into therapy
 - 3 patients had a dose interruption followed by recovery and dose reduction (2 patients to 90 mg and 1 patient to 60 mg) without any recurrence of neutropenia
 - 3 patients had dose discontinuation followed by recovery
- In OPERA-01 pivotal Phase 3 trial, patients are receiving tablet formulation instead of the capsules utilized in current dataset
 - Expected to reduce rate and grade of nausea and vomiting

— Efficacy: Compelling Phase 1/2 data supports ongoing OPERA-01 trial

7.3 months mPFS in *ESR1* mutant; 5.5 months in wild-type for EMERALD-eligible 2/3L ± CT patients*

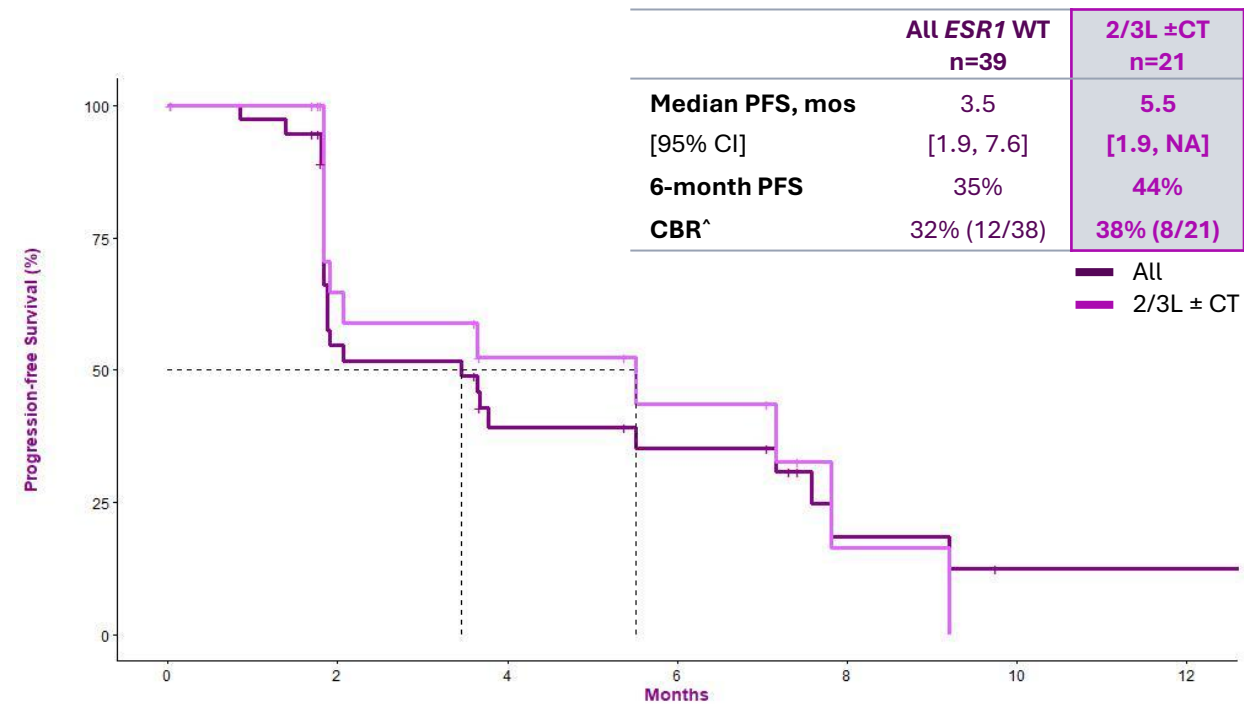
Patients with *ESR1* Mutation¹



Number at Risk

	0	2	4	6	8	10	12
All	36	21	18	12	4	0	0
2/3L ±CT	23	14	13	10	2	0	0

Patients with *ESR1* Wild-Type²



Number at Risk

	0	2	4	6	8	10	12
All	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.**

¹ Palazestrant Phase 2 dataset at 120 mg with *ESR1* mutations detected at baseline. ² Palazestrant Phase 2 dataset at 120 mg with *ESR1* mutations not detected at baseline.

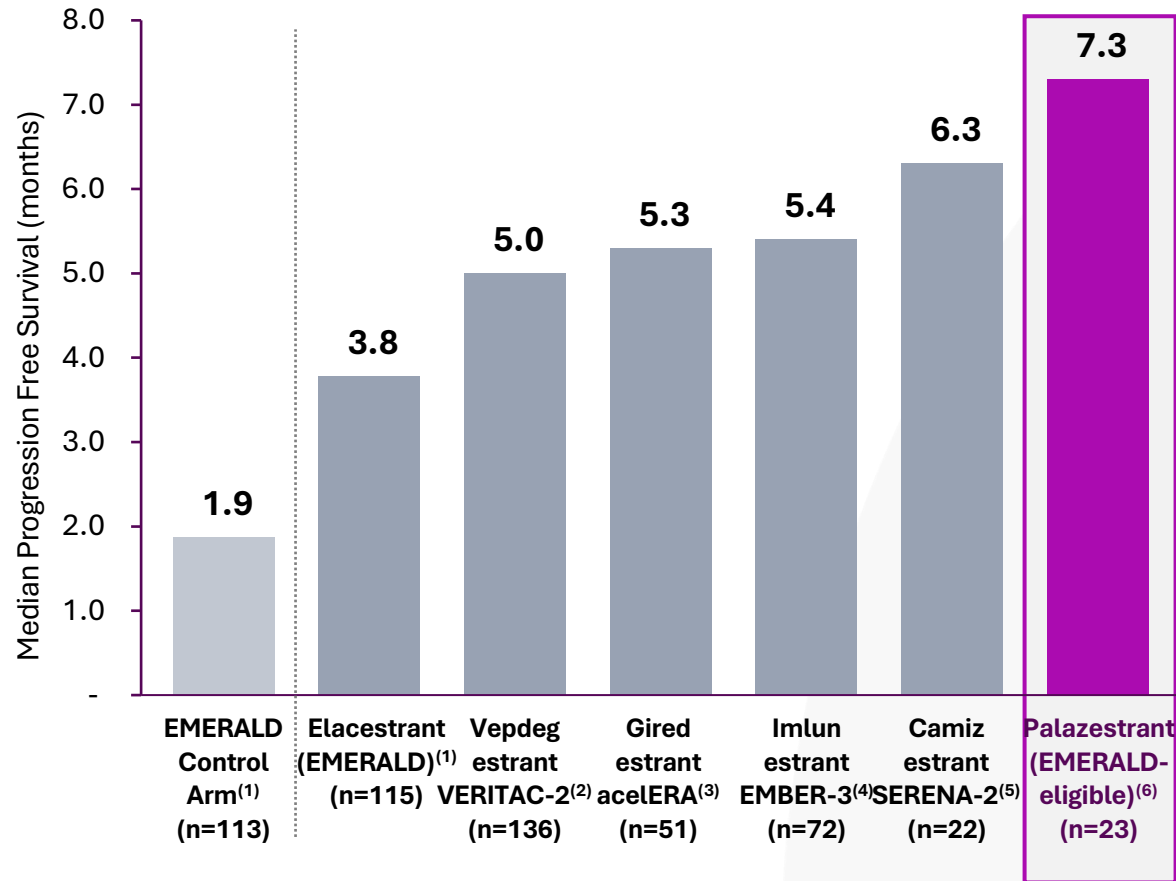
[^] Clinical Benefit Rate (CBR) is defined as the proportion of subjects who remained on OP-1250 treatment through at least 24 weeks with a confirmed CR or PR, or stable disease. The CBR analysis includes patients who received at least one evaluable post-baseline radiographic assessment. Data cut-off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

± CT = plus/minus chemotherapy; CBR = clinical benefit rate; CI = confidence interval; *ESR1* = estrogen receptor 1 gene; mos = months; mPFS = median progression free survival; mut = mutation; NA = not applicable; WT = wild-type

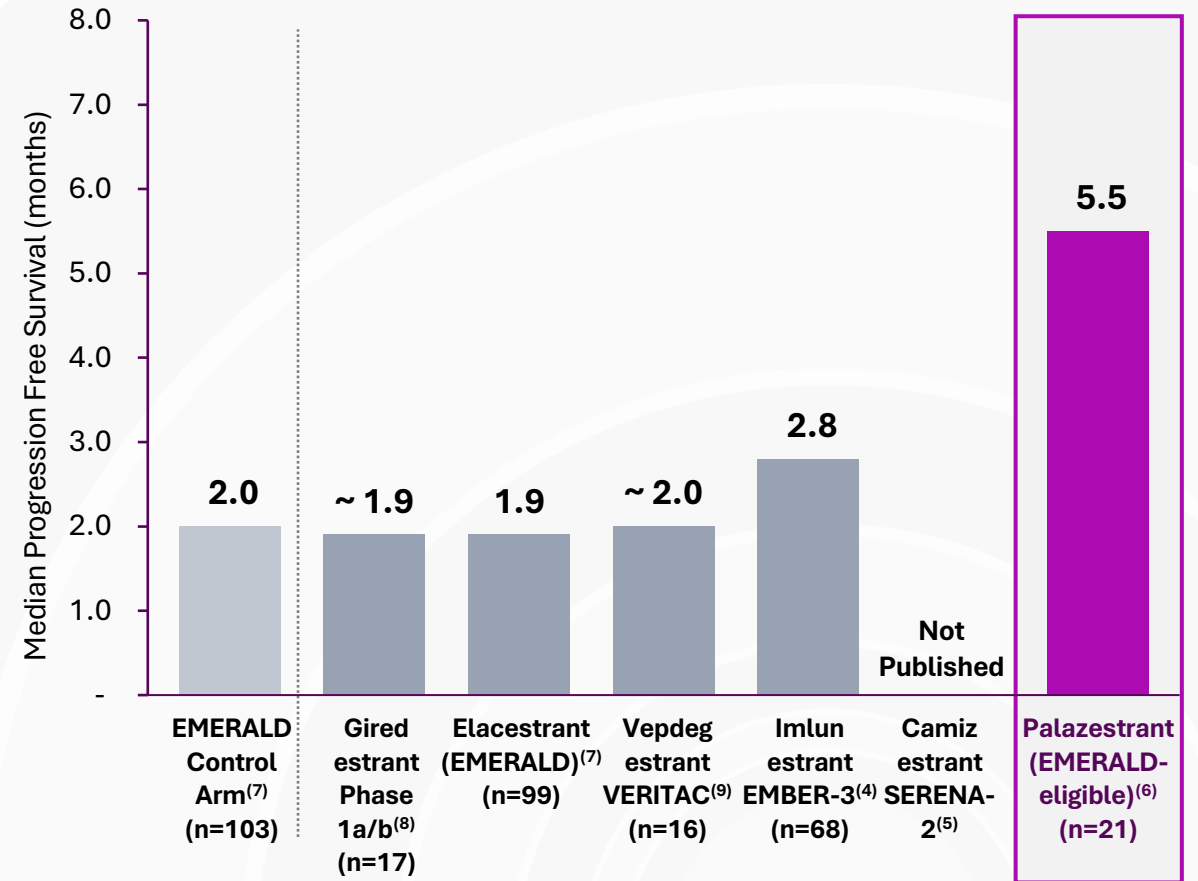
Palazestrant in the competitive landscape: best-in-class potential*

Palazestrant is the only CERAN/SERD with potential for approval in both *ESR1* mutant and wild-type

Median PFS (months) in *ESR1* Mutant Patients*



Median PFS (months) in *ESR1* Wild-Type CDK4/6i-Experienced Patients*



* 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 SABCS 2021 EMERALD data. ² NEJM 2025 VERITAC-2 data. ³ JCO acelERA data. Median PFS in *ESR1*m patients at 30 mg. ⁴ ESMO Breast 2025 EMBER-3 data. Median PFS in *ESR1*m CDK4/6i pre-treated patients. ⁵ SABCS 2022 Serena-2 data. Median PFS in *ESR1*m patients at 75 mg.

⁶ mPFS at 120 mg dose in Emerald-eligible patient population from palazestrant Phase 2 dataset (2/3L +/-CT) with *ESR1* mutations detected at baseline. ⁷ ASCO 2023 EMERALD data. Median PFS in *ESR1*m non-detected with ≥6 months prior CDK4/6i. ⁸ ASCO 2021 Phase 1/2 data. mPFS in 30 mg cohort with prior CDK4/6i and no *ESR1*m. ⁹ SABCS 2023 VERITAC data. Median PFS at 200 mg dose across *ESR1* wild-type patients.

CDK4/6i = cyclin-dependent kinase 4/6 inhibitor; CERAN = complete estrogen receptor antagonist; *ESR1* = estrogen receptor 1 gene; PFS = progression free survival; SERD = selective estrogen receptor degrader

– OPERA-01 Phase 3 monotherapy trial designed to show superior efficacy in ESR1 mutant and ESR1 wild-type tumors

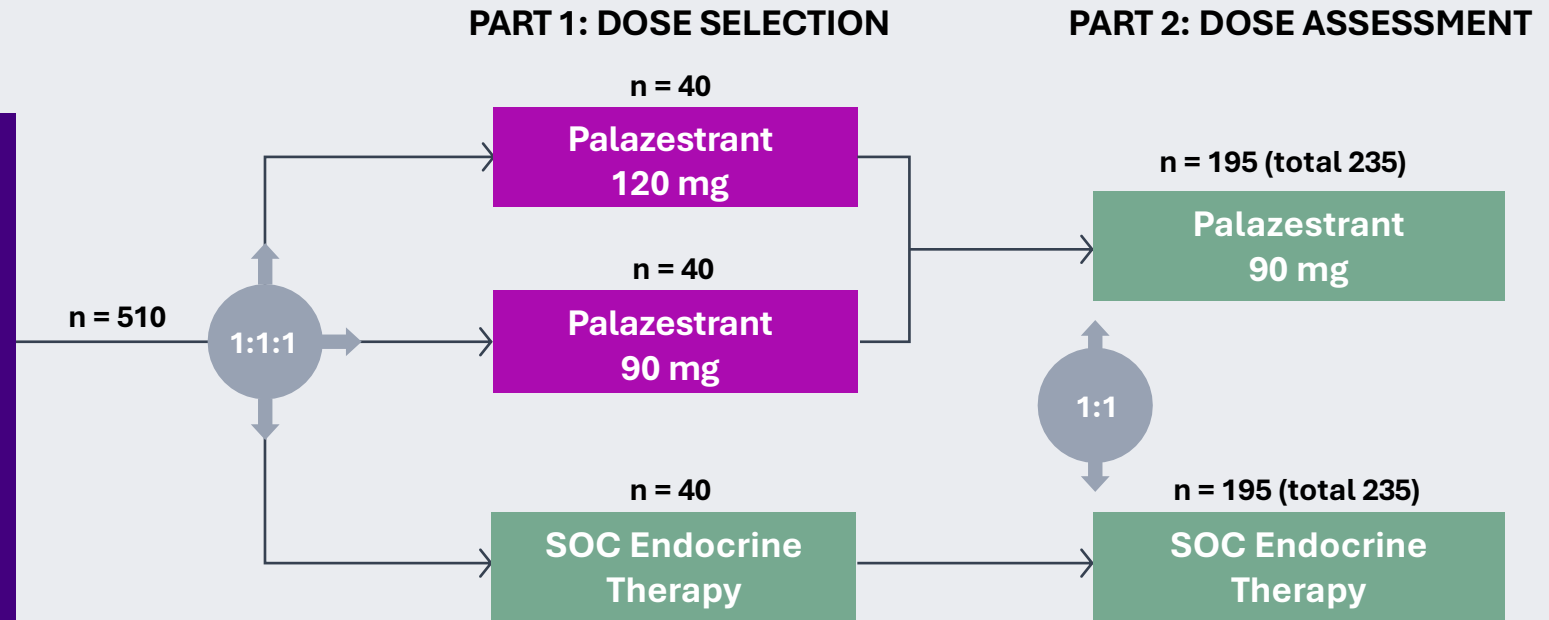


ELIGIBILITY CRITERIA

- 1-2 prior lines of endocrine therapy
- Prior treatment with a CDK4/6 inhibitor in the advanced setting
- No prior chemotherapy
- Minimum 6 months on last endocrine therapy

STRATIFICATION

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



ENDPOINTS

Primary: PFS (BIRC) in *ESR1* mut and *ESR1* mut-nd

Secondary: OS (Key) in *ESR1* mut and *ESR1* mut-nd, PFS (Investigator) and ORR/CBR/DOR (BIRC, Investigator) in *ESR1* mut, *ESR1* mut-nd, and all patients, Safety, PK, and Health-Related PROs

Trial initiated in 4Q 2023. Top-line results expected in Fall 2026.

— Planning for commercial launch of palazestrant as a monotherapy in 2/3L ER+/HER2- MBC anticipated in late 2027



Annual U.S. incidence estimated at **~40K*** patients



Commercial launch planning began in 2025



Early commercial leadership build expected to begin in 2026



Establishing manufacturing supply and distribution for commercial use



Anticipated targeted field force of **~75–100 reps** to cover U.S. breast oncologists



U.S. market potential of **~\$3-5B*** in 2/3L setting

Palazestrant in combination with ribociclib in 1L ER+/HER2- metastatic breast cancer

MILESTONES

- **2026:** Pivotal Phase 3 OPERA-02 trial ongoing
- **2028:** Anticipated announcement of top-line results from OPERA-02
- **2029:** Potential FDA approval and U.S. launch of palazestrant + ribociclib in 1L MBC

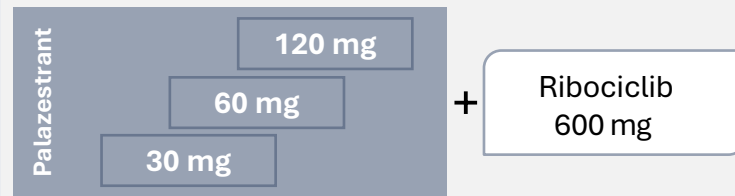
– Design: Phase 1b/2 study of palazestrant in combination with ribociclib in ER+/HER2- MBC

ER+/HER2- advanced or metastatic breast cancer (CDK4/6i-naïve or previously treated)

Key eligibility criteria

- Women or men with ER+/HER2- advanced or metastatic breast cancer
- Up to 2 prior endocrine therapies ± a CDK4/6i for locally advanced or metastatic disease; up to 1 prior line of chemotherapy for advanced or metastatic breast cancer was allowed
- Evaluable disease (measurable by RECIST v1.1 or bone only)
- No contraindication to ribociclib

Part 1: Dose Escalation



Primary endpoints: DLTs, MTD and/or RP2D of palazestrant when administered in combination with ribociclib, incidence and severity of adverse events, PK

Secondary endpoints: ORR (CR + PR), CBR (CR + PR + SD ≥ 24 weeks), DOR

Part 2: Dose Expansion

Palazestrant 90 mg / 120 mg + Ribociclib 600 mg

Primary endpoints: incidence and severity of adverse events, PK

Secondary endpoints: ORR (CR + PR), CBR (CR + PR + SD ≥ 24 weeks), DOR, time to progression, PFS

– Demographics: Phase 1b/2 study of palazestrant in combination with ribociclib in ER+/HER2- MBC

Patient Characteristics	90 mg (N=16)	120 mg (N=56)	Total (N=72)
Median age (years)	60	61	61
Range	25-76	28-85	25-85
Female sex	16 (100%)	56 (100%)	72 (100%)
Premenopausal	4 (25%)	8 (14%)	12 (17%)
ECOG performance status, n (%)			
0	10 (63%)	34 (61%)	44 (61%)
1	6 (38%)	22 (39%)	28 (39%)
Measurable disease at baseline, n (%)	12 (75%)	37 (66%)	49 (68%)
Visceral disease, n (%)	6 (38%)	33 (59%)	39 (54%)
Prior lines of therapy in advanced setting, n (%)			
0	10 (63%)	14 (25%)	24 (33%)
1	5 (31%)	26 (46%)	31 (43%)
2	1 (6%)	12 (21%)	13 (18%)
3	0	4 (7%)	4 (6%)
Prior lines of endocrine therapy in advanced setting, n (%)			
0	10 (63%)	14 (25%)	24 (33%)
1	6 (38%)	32 (57%)	38 (53%)
2	0	10 (18%)	10 (14%)
Types of prior therapy in advanced setting, n (%)			
CDK4/6 inhibitor	5 (31%)	40 (71%)	45 (63%)
Aromatase inhibitor (AI)	5 (31%)	27 (48%)	32 (44%)
Fulvestrant	1 (6%)	22 (39%)	23 (32%)
Chemotherapy	1 (6%)	10 (18%)	11 (15%)
ESR1 mutations at baseline (ctDNA), n/N (%)	1/15 (7%)	14/54 (26%)	15/69 ^a evaluated (22%)

- N=72; N=56 at 120 mg; N=16 at 90 mg
- 54% with visceral disease
- 68% with measurable disease
- 67% received prior endocrine therapy in advanced setting
- **63% received prior CDK4/6i + ET**
 - 36 (50%) patients received 1 prior line of CDK4/6i
 - Palbociclib, n=23; abemaciclib n=8 ribociclib, n=5
 - 9 patients (13%) received 2 prior lines of CDK4/6i
 - Palbociclib → abemaciclib, n=2
 - Palbociclib → palbociclib, n=2
 - Palbociclib → ribociclib, n=3
 - Ribociclib → ribociclib, n=1
 - Abemaciclib → palbociclib, n=1
- **22% with ESR1 mutation**
 - 33% with ESR1 mutation in 2L+

Data cutoff date: July 8, 2025.

^a ESR1 mutations in ctDNA at baseline were determined centrally using SafeSEQ Breast Cancer Panel (Sysmex Inostics, Baltimore, MD). Three samples were not evaluable.

CDK4/6i = cyclin-dependent kinase 4/6 inhibitor; ctDNA = circulating tumor DNA; ECOG = Eastern Cooperative Oncology Group; ESR1 = estrogen receptor 1 gene; ET = endocrine therapy

— Well tolerated with no DLTs; safety profile consistent with ribociclib + ET

Phase 1b/2 study of palazestrant in combination with ribociclib in ER+/HER2- MBC

TEAEs in ≥25% of patients	Palazestrant 120 mg + Ribociclib			Palazestrant 90 mg + Ribociclib			MONALEESA-2* Letrozole + Ribociclib†		
	All grades‡	(n = 56) Grade 3	Grade 4	All grades‡	(n = 16) Grade 3	Grade 4	All grades	(n = 334) Grade 3	Grade 4
Neutropenia§	47 (84%)	28 (50%)	5 (9%)	13 (81%)	9 (56%)	2 (16%)	93%	49%	11%
Nausea	41 (73%)	2 (4%)	0%	11 (69%)	1 (6%)	0%	52%	2%	0%
Fatigue	30 (54%)	3 (5%)	0%	9 (50%)	0%	0%	37%	2%	<1%
WBC decrease	24 (43%)	9 (16%)	1 (2%)	6 (38%)	4 (25%)	0%	93%	31%	3%
Diarrhea	24 (43%)	2 (4%)	0%	4 (25%)	0%	0%	35%	1%	0%
Anemia	22 (39%)	2 (4%)	0%	5 (31%)	0%	0%	57%	2%	0%
Vomiting	21 (38%)	1 (2%)	0%	4 (25%)	0%	0%	29%	4%	0%
ECG QT prolonged	16 (29%)	4 (5%)	0%	4 (25%)	1 (6%)	0%	43%¶	8%¶	NR
Lymphocyte count decreased	16 (29%)	3 (5%)	1 (2%)	3 (19%)	0%	0%	51%	12%	2%
AST Increased	15 (27%)	2 (4%)	0%	3 (19%)	0%	0%	44%	6%	1%
Constipation	15 (27%)	0%	0%	3 (19%)	0%	0%	25%	1%	0%

*** 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.**

†Adverse reactions reported in ≥10% of patients who received ribociclib plus letrozole in the MONALEESA-2 trial. (KISQALI (ribociclib). Prescribing information. Novartis; 2022; Hortobagyi, 2016) ‡Two subjects experienced Grade 5 AEs, heart failure and depressed level of consciousness not related to study drugs but disease progression. §Combined term includes neutropenia, decreased neutrophil count and febrile neutropenia. ¶These values were taken from MONALEESA-2 lab abnormalities data; source: KISQALI (ribociclib). Prescribing information. Novartis; 2022. ¶Ribociclib + fulvestrant in MONALEESA-3 per the Ribociclib Approval Package (NUMBER:209092Orig1s001, June 2018); ribociclib + non-steroidal aromatase inhibitors in MONALEESA-7: all grade QTcF prolongation was 46.5% (Grade 2, 5.3%; Grade 3, 9%). Aggregate analysis (n=1054 patients).

AE = adverse events; DLTs = dose-limiting toxicity; ECG QT = electrocardiogram QT interval; ER+ = estrogen receptor positive; ET = endocrine therapy; HER2- = human epidermal growth factor receptor negative; LDH = lactate dehydrogenase; MBC = metastatic breast cancer; NR = not reported; TEAEs = treatment-emergent adverse events; WBC = white blood cell. Data cutoff date: July 8, 2025. Data shown are n or n (%).

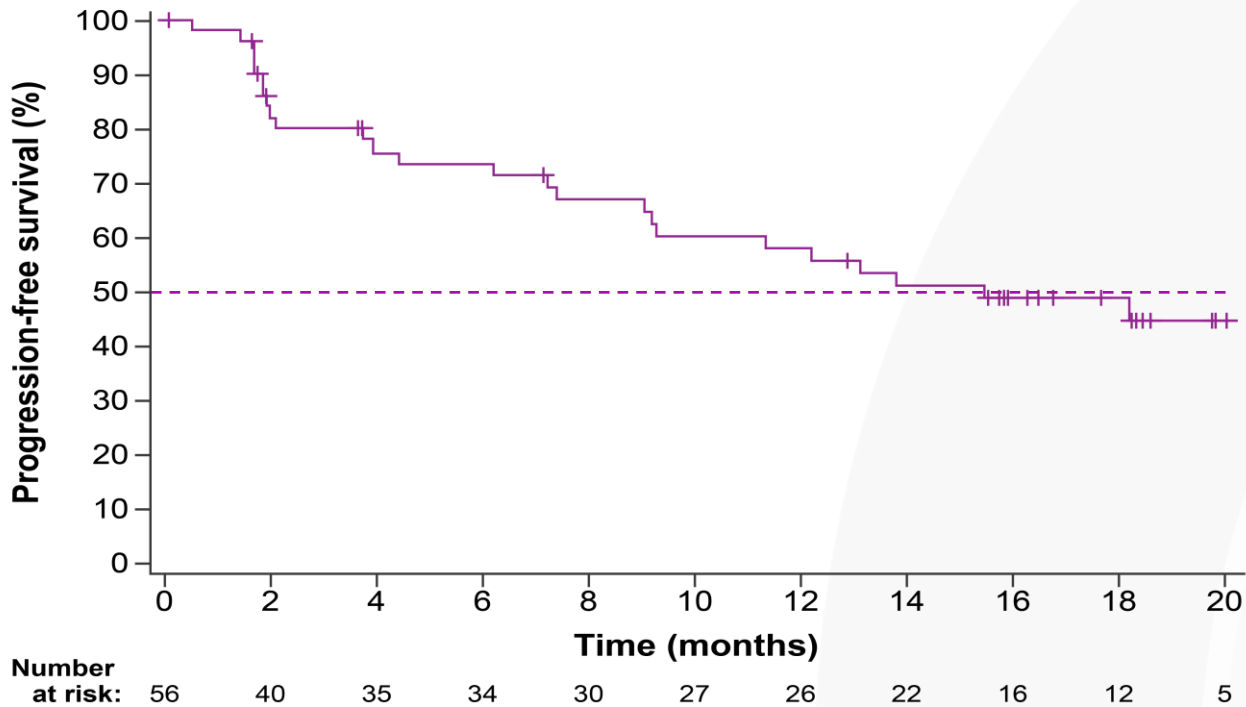
— Median PFS of 15.5 months for all 120 mg patients

Phase 1b/2 study of palazestrant in combination with ribociclib in ER+/HER2- MBC

All Patients

120 mg palazestrant + 600 mg ribociclib (n=56)

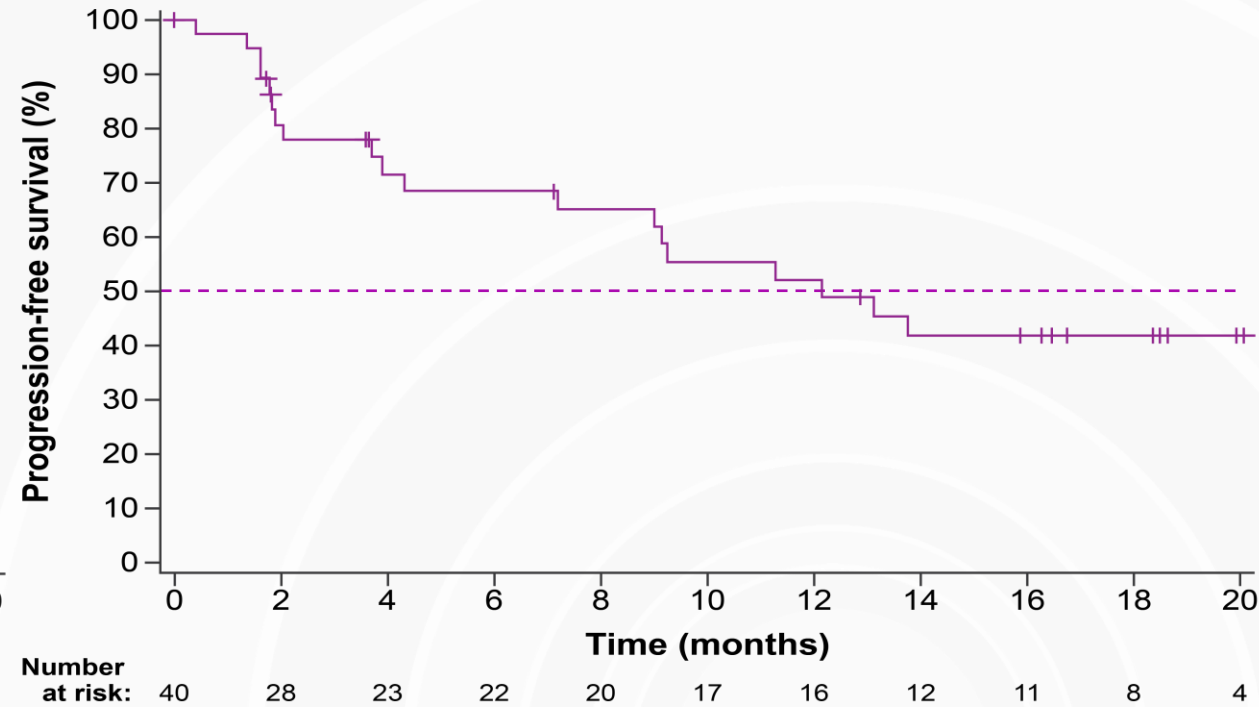
mPFS: 15.5 months



Patients with Prior CDK4/6i + ET

120 mg palazestrant + 600 mg ribociclib (n=40)

mPFS: 12.2 months



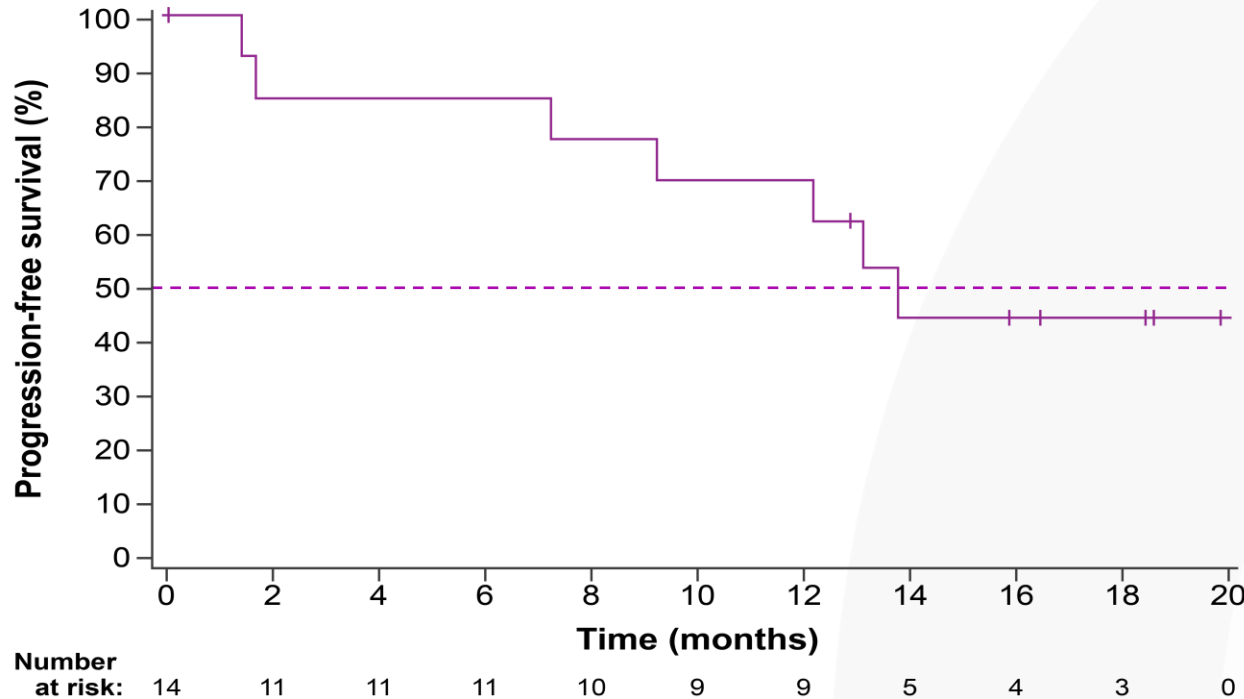
— Demonstrated activity in both ESR1 mutant and wild-type 2L+ patients

Phase 1b/2 study of palazestrant in combination with ribociclib in ER+/HER2- MBC

ESR1 Mutant Patients with Prior CDK4/6i

120 mg palazestrant + 600 mg ribociclib (n=14)

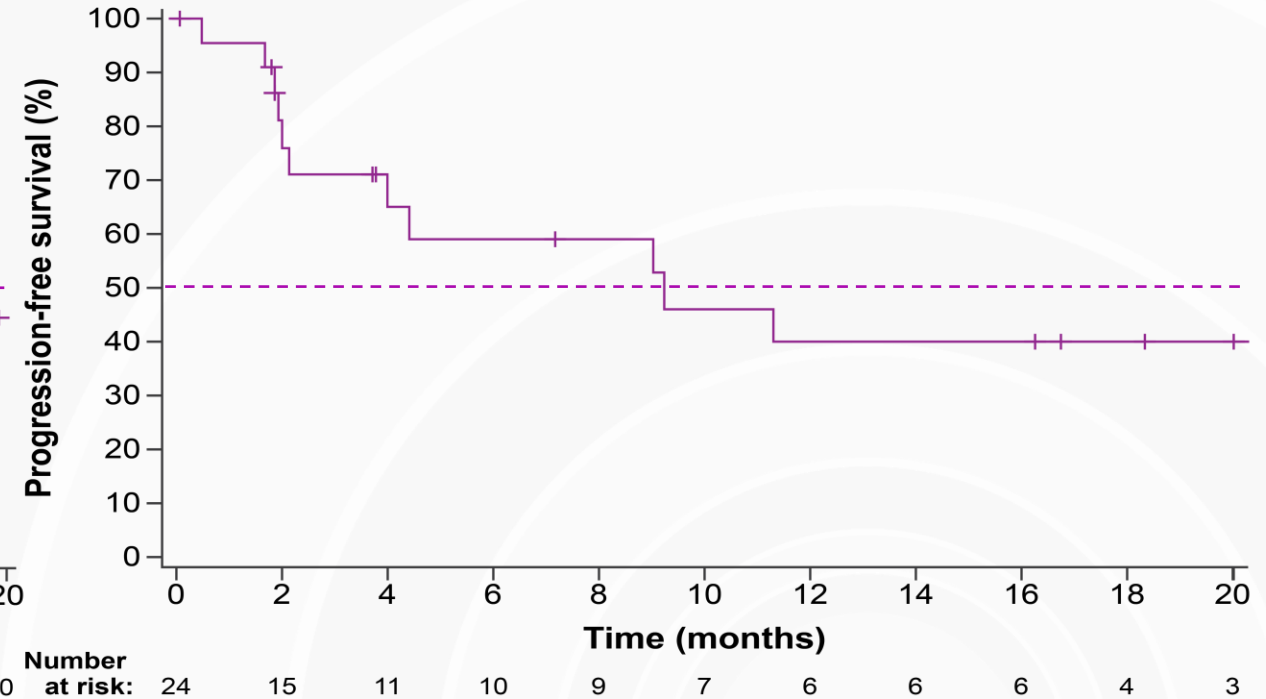
mPFS: 13.8 months



ESR1 Wild Type Patients with Prior CDK4/6i

120 mg palazestrant + 600 mg ribociclib (n=24)

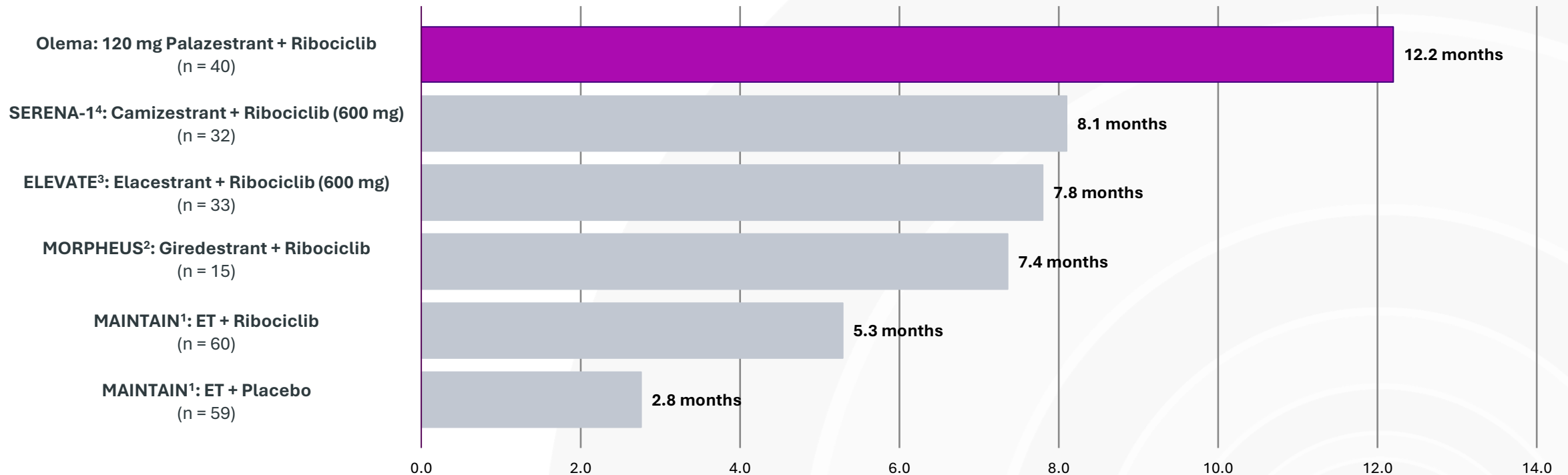
mPFS: 9.2 months



— Pala + Ribo shows promising activity in 2L+ patients with prior CDK4/6i

MAINTAIN study of ribociclib plus ET after CDK4/6i progression serves as best clinical benchmark*

Comparison of Median PFS (months)* in CDK4/6i Pre-Treated Patients



* **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: July 8, 2025.

¹ ASCO 2022 MAINTAIN data. ² ASCO 2023 MORPHEUS data. ³ ASCO 2025 ELEVATE data. ⁴ SABCS 2024 SERENA-1 data Parts K-L, ribociclib 600 mg dose arm.

2L+ = second-line plus; CDK4/6i = cyclin-dependent kinase 4/6 inhibitor; ET = endocrine therapy; PFS = progression free survival

– Design: OPERA-02 Phase 3 pivotal trial of palazestrant in combination with ribociclib in 1L ER+/HER2- MBC

Ongoing ~1,000-patient trial vs. standard of care



ELIGIBILITY CRITERIA

- ER+/HER2- MBC
- Any menopausal status
- No prior systemic therapy for MBC
- No prior CDK4/6 inhibitor for MBC
- Patients who relapsed during or within 12 months of completion of adjuvant endocrine therapy are not eligible
- Evaluable disease (measurable or non-measurable)

STRATIFICATION

- Menopausal status: post vs. pre/male
- Visceral metastasis: yes vs. no
- *De novo* metastatic disease vs. recurrent disease after adjuvant ET
- Geographic region

n ≈ 1,000

1:1

Palazestrant 90 mg
+
Ribociclib 600 mg

Letrozole 2.5 mg
+
Ribociclib 600 mg

Endpoints

- Primary:** PFS (Investigator)
- Secondary:** OS (Key)
PFS (BIRC)
ORR/CBR/DOR (BIRC, Investigator)
Safety
PK
Health-related PROs

In collaboration with



– Case study: TAGRISSO's® path to approval and label expansion by suppressing resistance mutations*

FLAURA trial demonstrated that suppressing the most common resistance mechanism was a proven clinical development strategy
Comparable EGFR mutation rates after 1L TKI to ESR1 mutation rates after 1L CDK4/6i + AI = ~40 – 50%

**TAGRISSO's first approval came in 2015
 in 2L+ EGFR T790M mutant NSCLC
 on the basis of the Phase 2 AURA study**

mPFS AURA Study^{1*}



vs.

Standard of Care



**+5.7
 months**

**Significant mPFS
 improvement in 1L
 resulting in
 movement up the
 treatment paradigm**

**TAGRISSO's label expanded in 2018
 into 1L EGFR mutant NSCLC
 on the basis of the Phase 3 FLAURA trial**

mPFS FLAURA Trial^{2*}



vs.

Standard of Care



**+8.7
 months**

By suppressing the most common resistance mutation (*ESR1*), OPERA-02 is designed to demonstrate greater PFS vs standard of care in 1L endocrine sensitive MBC patients, just as TAGRISSO did for EGFR T790M mutations

*** NOTE: This analysis incorporates publicly-available third-party data that we have not independently verified. Results and outcomes presented should be interpreted with caution.**

Refer to further disclaimers on slide 2.

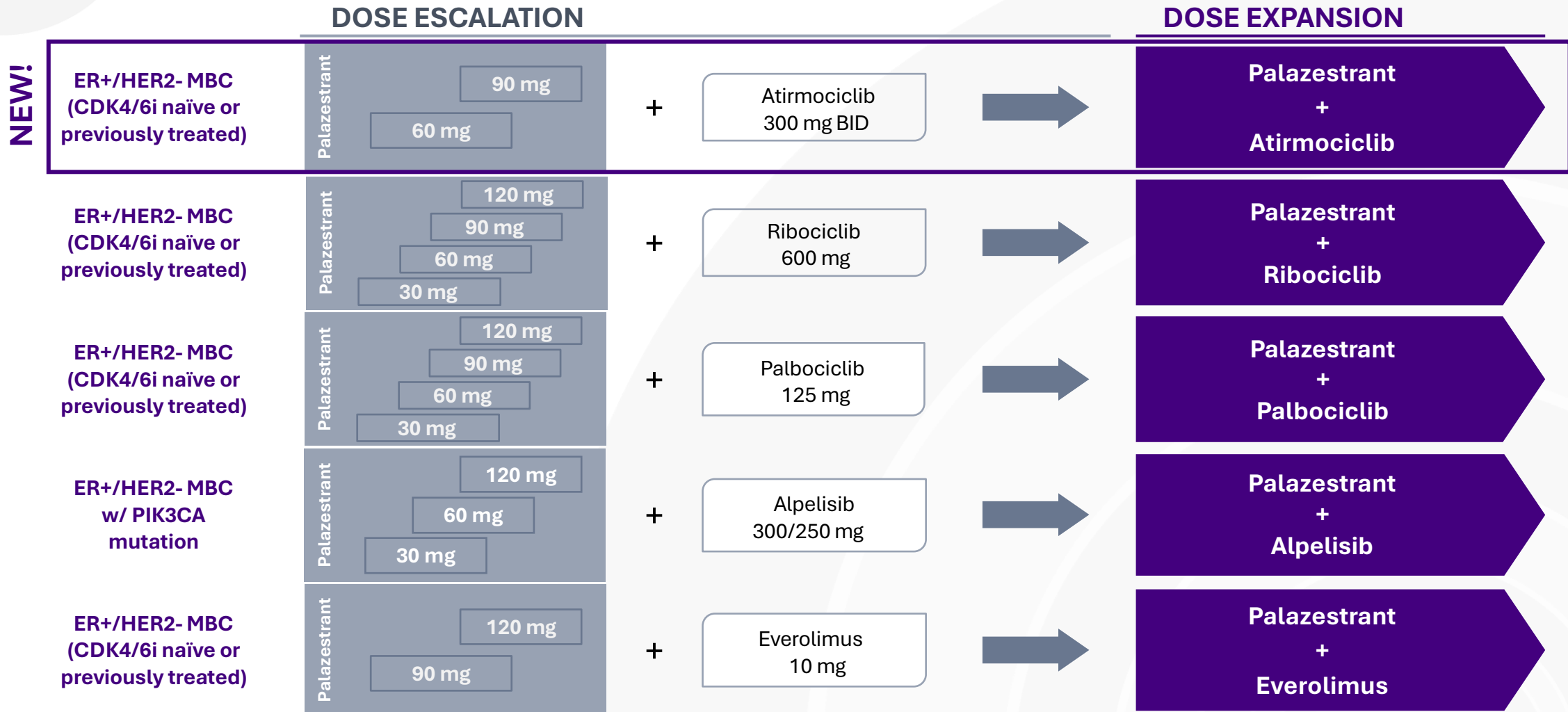
¹ Soria, J-C, Ohe, Y, Vansteenkiste, J. et al. Osimertinib in untreated EGFR-mutated advanced non-small-cell lung cancer. *New Engl J Med* 2018; 378:113-125.

² Osimertinib FDA package insert, Ramalingam, S. et al. Overall Survival with Osimertinib in Untreated, EGFR-Mutated Advanced NSCLC. *N Engl J Med* 2020;382:41-50.

1L = frontline; **2L** = second-line; **AI** = aromatase inhibitor; **CDK4/6i** = cyclin-dependent kinase 4/6 inhibitor; **EGFR** = epidermal growth factor receptor; **ESR1** = estrogen receptor 1 gene; **mPFS** = median progression free survival; **NSCLC** = non-small cell lung cancer; **T790M** = Thr790Met; **TKI** = tyrosine kinase inhibitor

Palazestrant demonstrates combinability with other targeted agents

Combination with Pfizer's selective CDK4 inhibitor, atirmociclib (PF-07220060), initiated in H2 2025



Primary objectives: Pharmacokinetics, safety and tolerability, identify RP2D of palazestrant for combination with either ribociclib, palbociclib, alpelisib, everolimus or atirmociclib. Secondary objectives: ORR (CR + PR), CBR (CR + PR + SD ≥24 weeks)

Primary objectives: Safety, tolerability and antitumor activity of palazestrant at RP2D in combination with either ribociclib, palbociclib, alpelisib, everolimus or atirmociclib

OP-3136

AT A GLANCE

- **Mechanism of Action**
KAT6A/B inhibitor
- **Stage of Development**
Phase 1
- **Initial Development Indication**
2/3L ER+/HER2- MBC

MILESTONES

- **Mid-2026:** Initial monotherapy data from the Phase 1 study

— OP-3136: Olema's KAT6 inhibitor*

An exciting new and validated target** for the treatment of ER+/HER2- metastatic breast cancer

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

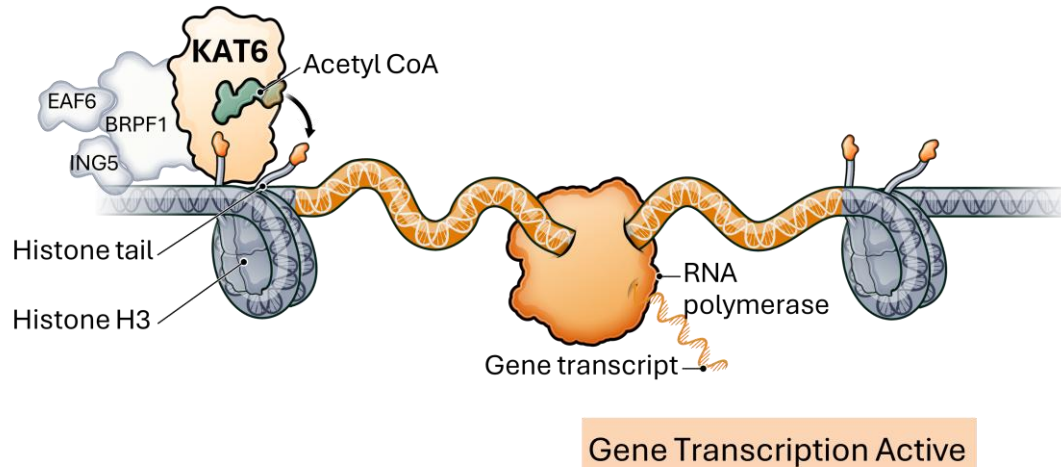
New preclinical data presented at AACR 2026 Annual Meeting; first clinical data to be presented at ASCO 2026

Phase 1/2 monotherapy and combination clinical trial is ongoing

— OP-3136 mechanism of action

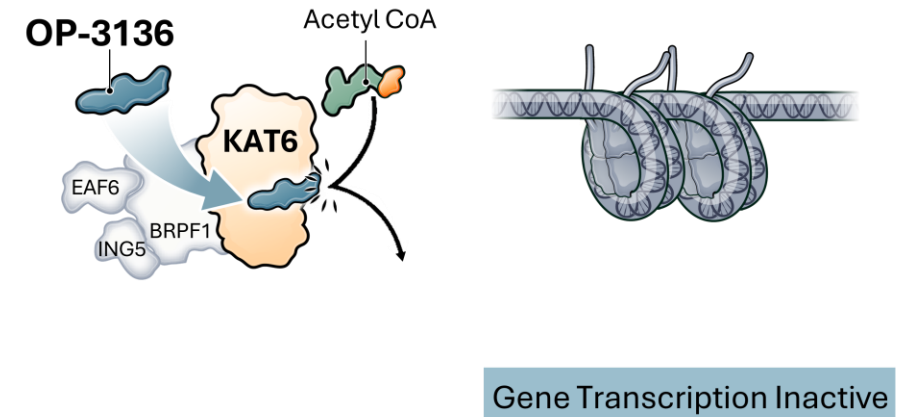
KAT6 acetylates chromatin, enabling transcription and proliferation

KAT6 acetylates histone tails → Chromatin opens



OP-136 inhibits KAT6, stopping acetylation of histones and preventing transcription of proliferation-associated genes

OP-3136 blocks acetylation substrate → Chromatin remains closed



- KAT6 is a clinically validated target¹ and overexpression correlated with worse clinical outcomes in ER+ breast cancer²
- KAT6 inhibition downregulates genes involved in **estrogen receptor signaling** and other signaling pathways³
- Inhibition regulated gene expression through blockade of acetylation of histones

¹ Sommerhalder D, et al. First-in-human phase 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.

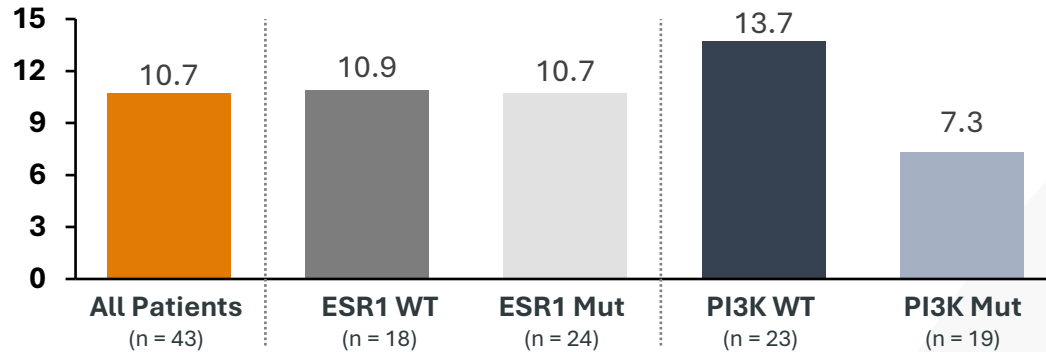
³ Sharma S, et al. Discovery of a highly potent, selective, orally bioavailable inhibitor of KAT6A/B histone acetyltransferases with efficacy against KAT6A-high ER+ breast cancer. Cell Chemical Biology. 30, 1–20.

Note: Olema KAT6 inhibitors discovered in collaboration with Aurigene.

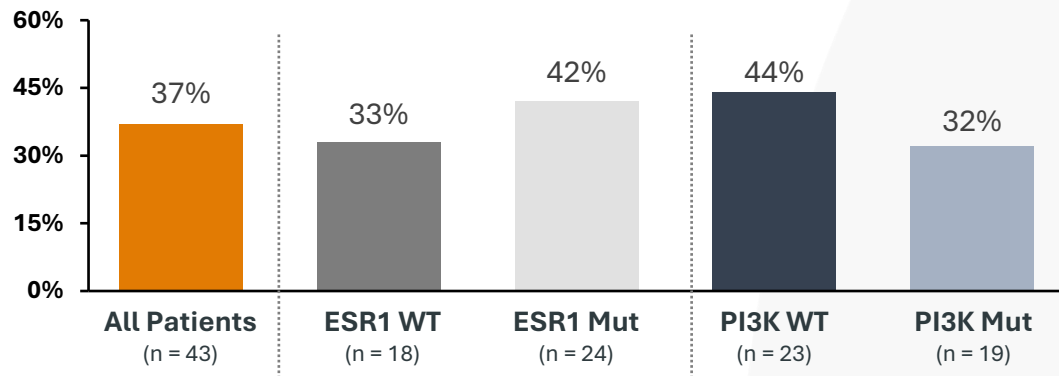
AR = androgen receptor; CoA = coenzyme A; ER = estrogen receptor; KAT6 = lysine acetyltransferase 6; MYC = myelocytomatosis oncogene; + = positive

— KAT6 validated as an active new target in metastatic breast cancer*

PF-8144 Median PFS with ET¹



PF-8144 Overall Response Rate (ORR) with ET¹



First-in-human clinical proof of concept for KAT6 inhibitor from Pfizer has important implications:

- **Validates KAT6 as an active new target for the treatment of metastatic breast cancer**
 - Activity demonstrated regardless of mutation status (*ESR1* and PI3K/AKT/PTEN)
- **Demonstrates promising avenue to have a significant impact on future standard of care**
 - Combination of KAT6 inhibitor + ET demonstrated synergistic activity, consistent with preclinical observations
- **Highlights opportunity for potential best-in-class KAT6 inhibitor OP-3136 in combination with potential best-in-class CERAN palazestrant**

* NOTE: Incorporates publicly-available third-party data that we have not independently verified. These results should be interpreted with caution. Such third-party data has been pulled by us from publicly-available sources for supplemental informational purposes only. Refer to further disclaimers on slide 2.

¹ SABCS 2021 EMERALD data. Median PFS in control arm. ORR of 4.4% (8/182) ² Mukohara T, et al. SABCS 2024: PF-07248144, a First-in-Class KAT6 Inhibitor, in Patients With HR+ HER2- Metastatic Breast Cancer: Updated Results From Phase 1 Dose Expansion Study.

^{2L}= second-line; **ESR1** = estrogen receptor 1 gene; **ESR1** = estrogen receptor 1; **ET** = endocrine therapy; **KAT6** = lysine acetyltransferase 6; **ORR** = overall response rate; **PFS** = progression free survival; **PI3K** = phosphatidylinositol 3-kinase **PTEN** = phosphatase and tensin homolog

— OP-3136 preclinical data demonstrated specificity for KAT6A/B

OP-3136 is potent and selective against KAT6A/B

Biochemical Potency and Selectivity

IC ₅₀ (nM)	OP-3136	PF-8144
KAT6A	9	7
KAT6B	1	1
KAT7	108	88
KAT5	6792	1288
KAT8	4490	1372

- OP-3136 showed >500-fold selectivity over other essential KAT family members: KAT5 and KAT8
- OP-3136 had higher selectivity over KAT5 and KAT8
 - May confer safety advantage
 - PF-8144 5 mg QD steady state exposure is ~3000-4000 nM, above IC₅₀ for KAT5 and KAT8

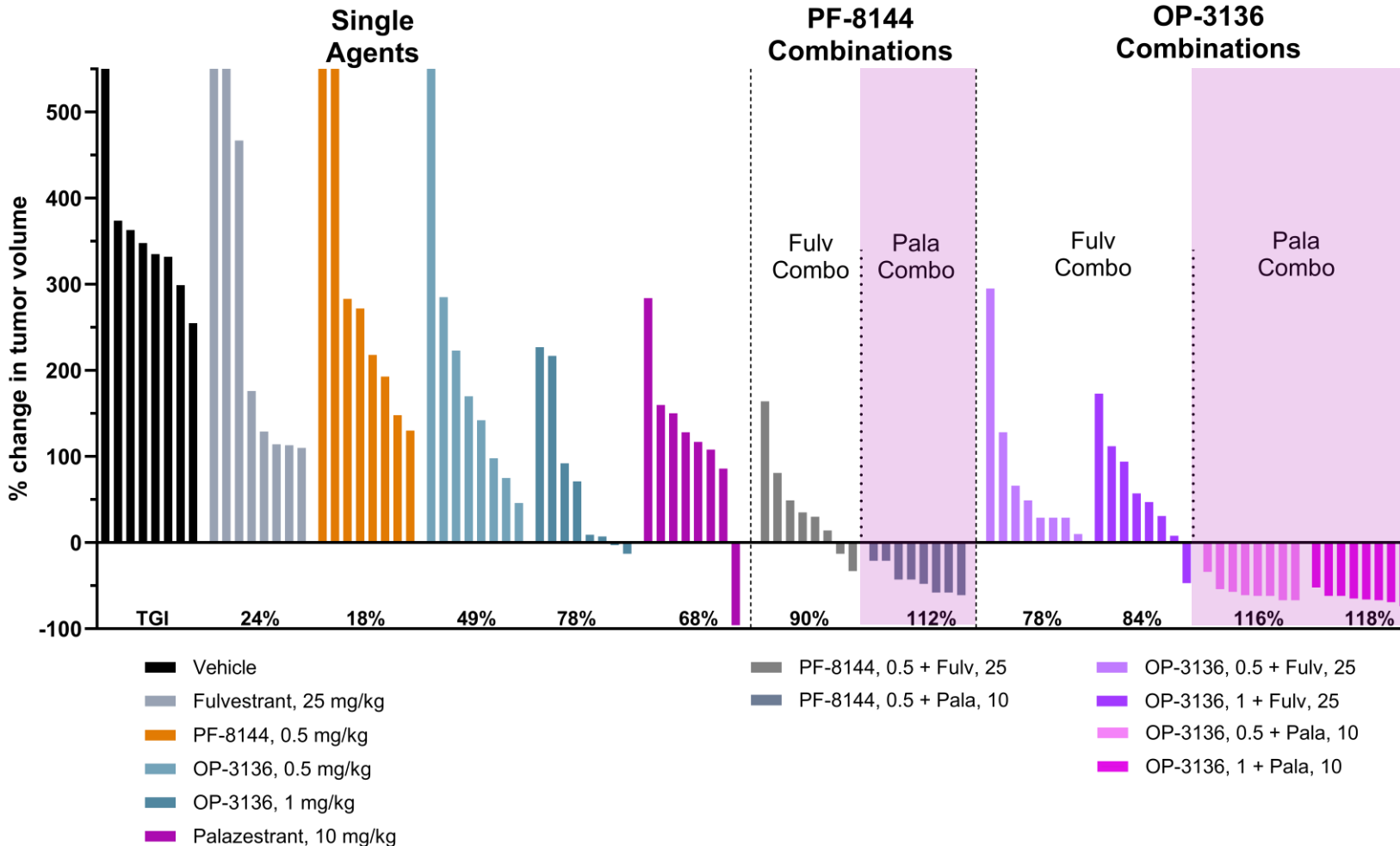
Note: Olema KAT6 inhibitors discovered in collaboration with Aurigene

¹ Mukohara T, et al. Inhibition of lysine acetyltransferase KAT6 in ER+ HER2- metastatic breast cancer: a phase 1 trial. Nat Med (2024)

CDK4/6i = cyclin dependent kinase 4/6 inhibitor; KAT = lysine acetyltransferase

OP-3136 demonstrated synergistic activity in combination with palazestrant in preclinical breast cancer models

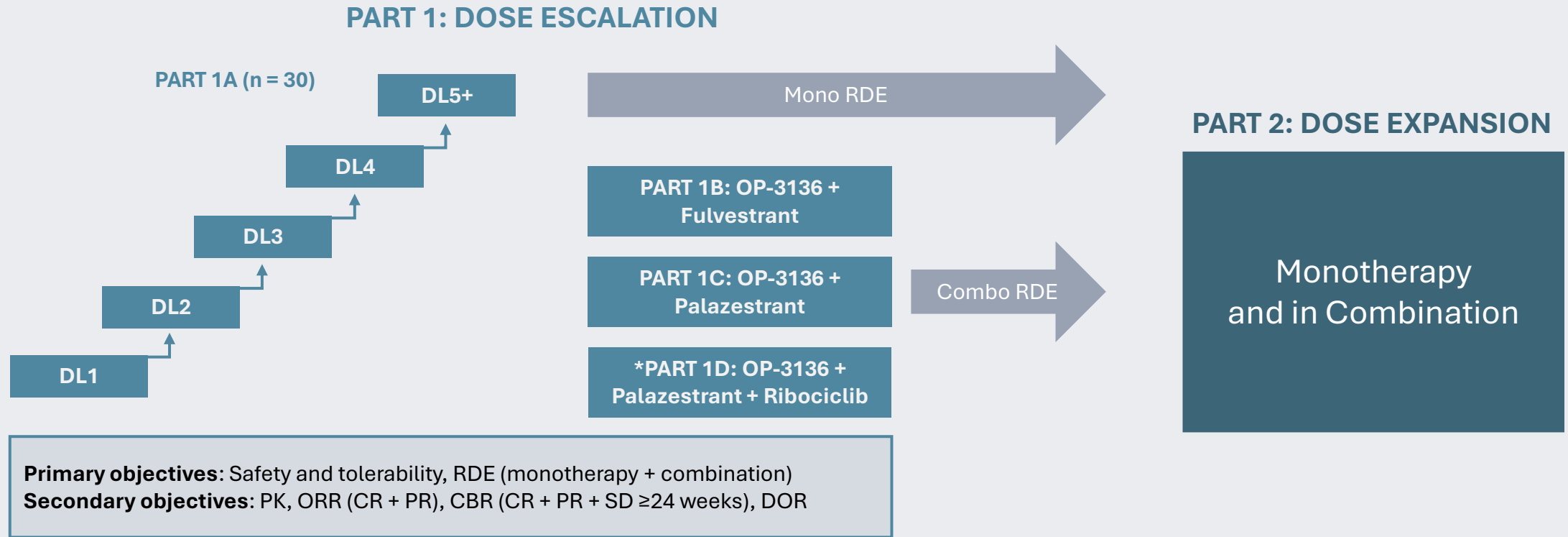
Waterfall Plot (T47D CDX Model)



- Palazestrant in combination with either OP-3136 or PF-8144 resulted in strong tumor regression relative to fulvestrant combinations
- OP-3136 and palazestrant combinations showed significantly improved anti-tumor efficacy compared to PF-8144 in combination with fulvestrant
- All OP-3136 combinations were well tolerated, with no significant changes in body weight and no mortality

— OP-3136 Phase 1 study design

Enrollment ongoing in monotherapy as well as palazestrant and fulvestrant combination arms



KEY ELIGIBILITY CRITERIA

- ER+/HER2- MBC (or MCRPC or MNSCLC for PART 1A)
- Post-SOC (PART 1A)
- At least 1 prior line with CDK4/6i + ET (PART 1B/1C/1D)

References: 1. Mukohara T, et al. Inhibition of lysine acetyltransferase KAT6 in ER+ HER2- metastatic breast cancer: a phase 1 trial. Nat Med (2024).

* Cohort to be added in the protocol amendment.

CBR = clinical benefit rate; **CDK4/6i** = cyclin dependent kinase 4/6 inhibitor; **Combo** = combination; **CR** = complete response; **DL** = dose level; **DOR** = duration of response; **ER+** = estrogen receptor positive; **ET** = endocrine therapy; **FDA** = U.S. Food and Drug Administration; **HER2-** = human epidermal growth factor receptor 2 negative; **IND** = investigational new drug application; **MCRPC** = metastatic castrate resistant prostate cancer; **MBC** = metastatic breast cancer; **Mono** = monotherapy; **MNSCLC** = metastatic non-small cell lung cancer; **ORR** = objective response rate; **PK** = pharmacokinetics; **PR** = partial response; **RDE** = recommended dose for expansion; **SD** = stable disease; **SOC** = standard of care

— Olema: a compelling late-stage opportunity in breast cancer and beyond

Focused on transforming the metastatic breast cancer treatment paradigm and the potential to generate significant shareholder value by 2030

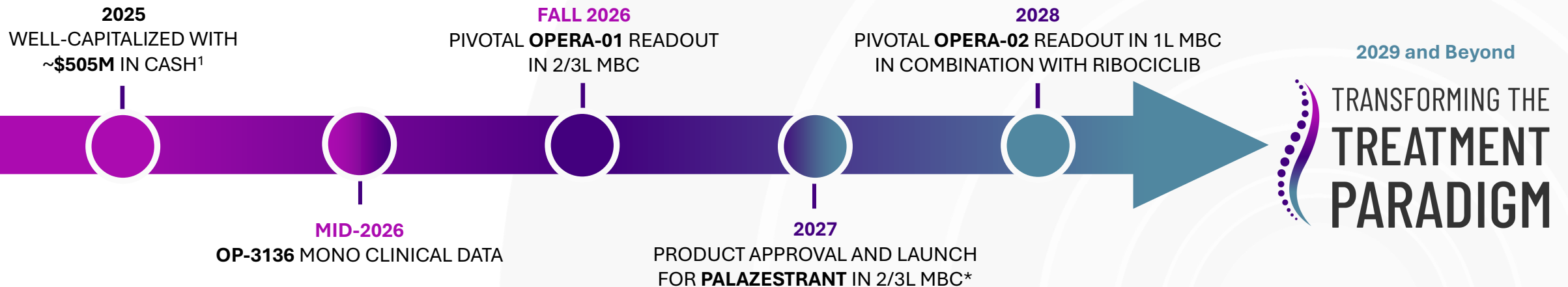
Palazestrant

- Highly differentiated with activity in *ESR1* mutant and wild-type tumors
- OPERA-01 Phase 3 trial on track for top-line data in Fall 2026
- OPERA-02 Phase 3 trial in combination with ribociclib enrolling patients
- Potential U.S. approval and launch in 2027 and label expansion in 2029

OP-3136

- Exciting new target in breast cancer
- Synergizes with palazestrant and CDK4/6 inhibitors in preclinical models
- Phase 1 study enrolling patients
- Initial clinical data to be presented at ASCO 2026

Corporate Priorities and Anticipated Milestones



Advancing medicines for breast cancer and beyond