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**2019 San Antonio Breast Cancer Symposium  
Roche Analyst Audio Webcast**

*16 December, 2019*



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# Agenda

## Welcome

Karl Mahler, Head of Investor Relations

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## HER2+ Franchise Overview

Alan Sandler, M.D., Head of Oncology – Solid Tumors, Global Product Development

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## HR+/HER2- and TNBC Franchise Overview

Elena Bernedo Arzac, M.D., Head of Oncology, Global Product Strategy

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## Key early stage data presented at SABCS 2019: PI3K, SERD

Stuart Lutzker, M.D., Ph.D., Head of Oncology, Early Clinical Development

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## Q&A

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**Welcome**

**Karl Mahler** | Head of Investor Relations

# 2019: a year of achievements

## Key Late Stage News Flow

### Positive Ph 3 / Pivotal Data

Tecentriq + Avastin	1L HCC (IMbrave150)
Tecentriq + chemo	1L mUC (IMvigor130)
Tecentriq + Zelboraf + Cotellic	1L BRAFm Melanoma (IMspire150)
Gazyva + Venclexta	1L unfit CLL (CLL14)
Risdiplam	SMA type 2/3 (SUNFISH)
Herceptin + Perjeta FDC	HER2+ Breast Cancer (FeDeriCa)

### Regulatory Filing

Satralizumab	NMOSD
Risdiplam	SMA type 1/2/3
Gazyva + Venclexta	1L unfit CLL
Xofluza	High-risk influenza

### Approval

Rozlytrek	ROS1+ NSCLC
Rozlytrek	NTRK+ pan tumor
Polivy	R/R DLBCL
Tecentriq + chemo	1L PD-L1+ TNBC
Tecentriq + chemo	1L SCLC
Kadcyla	Adj. HER2+ BC
Gazyva + Venclexta	1L unfit CLL

## 3 molecules advancing into pivotal studies

- Gazyva                      Lupus Nephritis
- GDC-0077 (PI3K)        1L HR+ mBC
- GDC-9545 (SERD)       1L HR+ mBC

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## HER2+ Breast Cancer

**Alan Sandler** | Alan Sandler, M.D., Global Head Product Development Oncology,  
Solid Tumors

# Roche has established the standard of care across HER2+ BC

Early Breast Cancer

Metastatic Breast Cancer

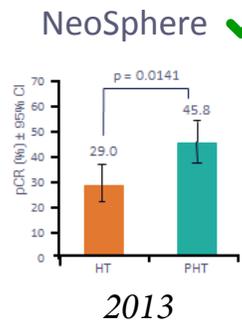
Neoadjuvant

Adjuvant

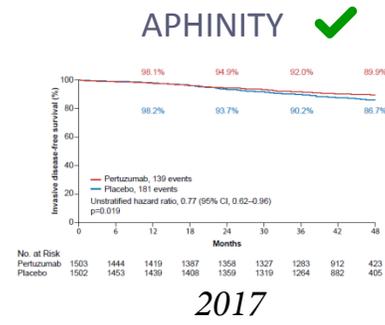
1L mBC

2L mBC

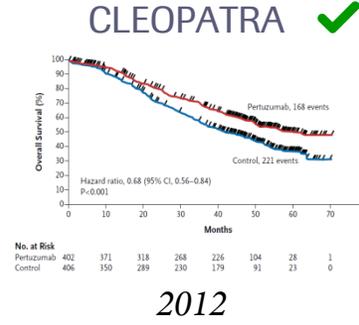
Herceptin + **NeoSphere** ✓



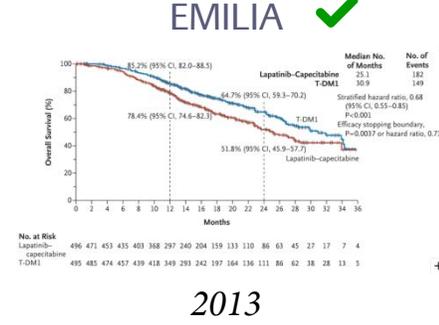
Herceptin + **APHINITY** ✓



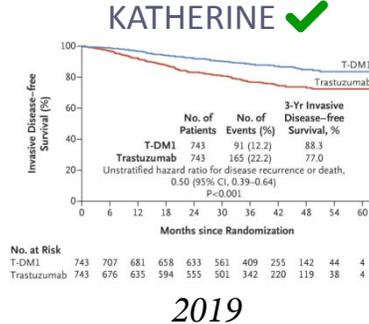
Herceptin + **CLEOPATRA** ✓



**EMILIA** ✓



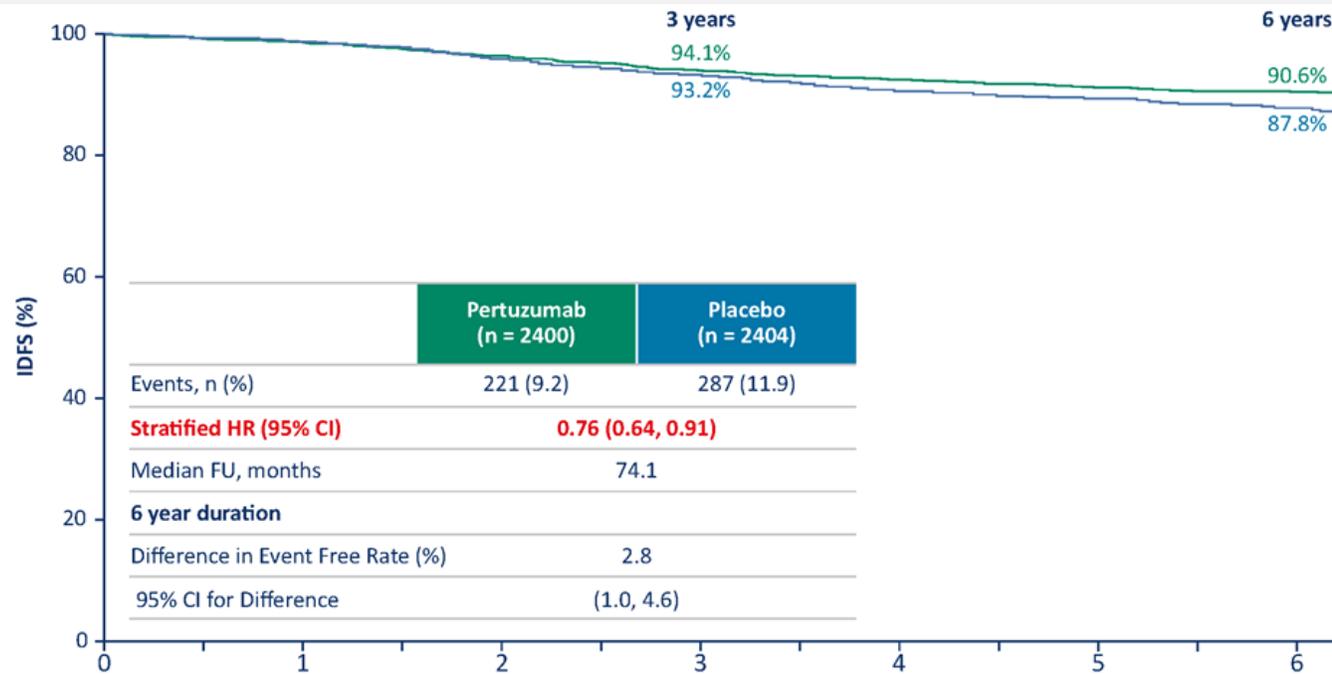
**KATHERINE** ✓



# APHINITY: IDFS curves continue to separate over time



## IDFS: ITT Population



### Perjeta + Herceptin demonstrates iDFS of >90% after 6 years of follow-up

- The benefit of Perjeta in HER2+ eBC has continued to improve over time, with additional separation of the curves
- Fewer deaths were seen in the Perjeta + Herceptin arm, however OS remains immature with ~95% of patients alive at 6 years (HR: 0.85)
- Incidence of primary cardiac events remains <1% in both arms

# APHINITY: updated data by key patient subgroups



## Updated IDFS by nodal status and HR-status

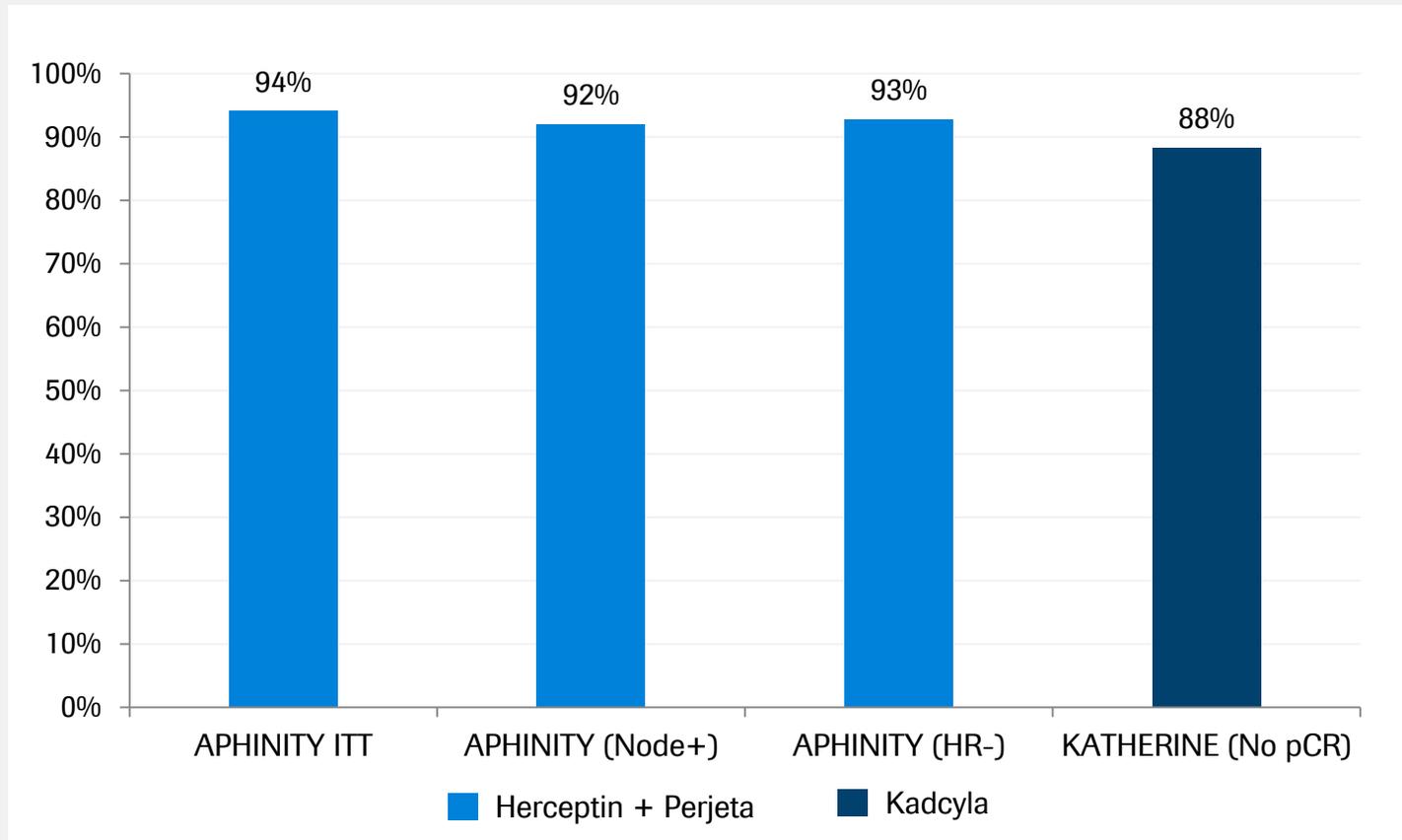
IDFS Hazard Ratio		
Population	Primary Analysis	Updated Analysis
ITT	<b>0.81</b> (0.66-1.00)	<b>0.76</b> (0.64-0.91)
LN-positive	<b>0.77</b> (0.62-0.96)	<b>0.72</b> (0.59-0.87)
LN-negative	<b>1.13</b> (0.68-1.86)	<b>1.02</b> (0.69-1.53)
HR-positive	<b>0.86</b> (0.66-1.13)	<b>0.73</b> (0.59-0.92)
HR-negative	<b>0.76</b> (0.56-1.04)	<b>0.83</b> (0.63-1.10)

6-yr IDFS rate		
Perjeta + Herceptin	Herceptin	Absolute benefit
90.6%	87.8%	<b>+2.8%</b>
87.9%	83.4%	<b>+4.5%</b>
95.0%	94.9%	<b>+0.1%</b>
91.2%	88.2%	<b>+3.0%</b>
89.5%	87.0%	<b>+2.5%</b>

- The node + cohort continues to derive clear benefit from the addition of Perjeta
- Treatment benefit of Perjeta is now seen in both HR+ and HR- cohorts

# High bar set in adjuvant disease

## 3-yr iDFS in APHINITY and KATHERINE



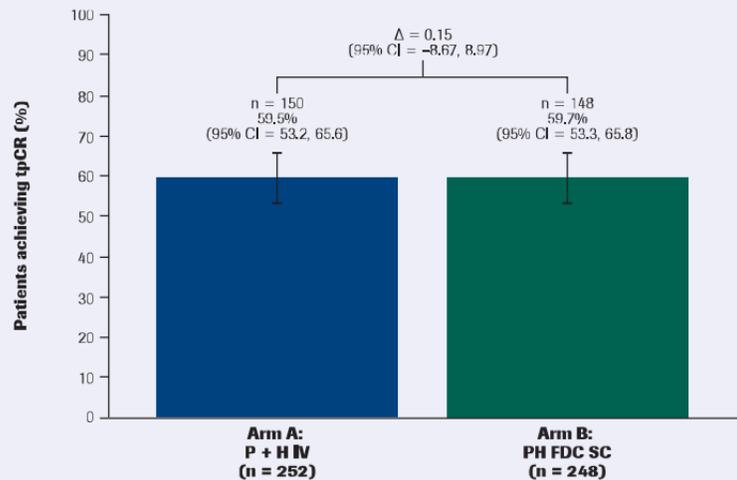
- 1. High efficacy bar established**
  - Long term disease free survival established in both ITT and high-risk pts
- 2. Strong safety profile**
  - APHINITY and KATHERINE regimens well tolerated, with low discontinuation rate
- 3. Robust trial design**
  - APHINITY trial: 4,800 patients and ~5.5 years from FPI to primary endpoint

*Future trials in HER2+ adjuvant disease likely to be designed around high-risk patient subgroups or deescalation of therapy*

# Ph 3 FeDeriCa trial of Perjeta+Herceptin SC FDC positive

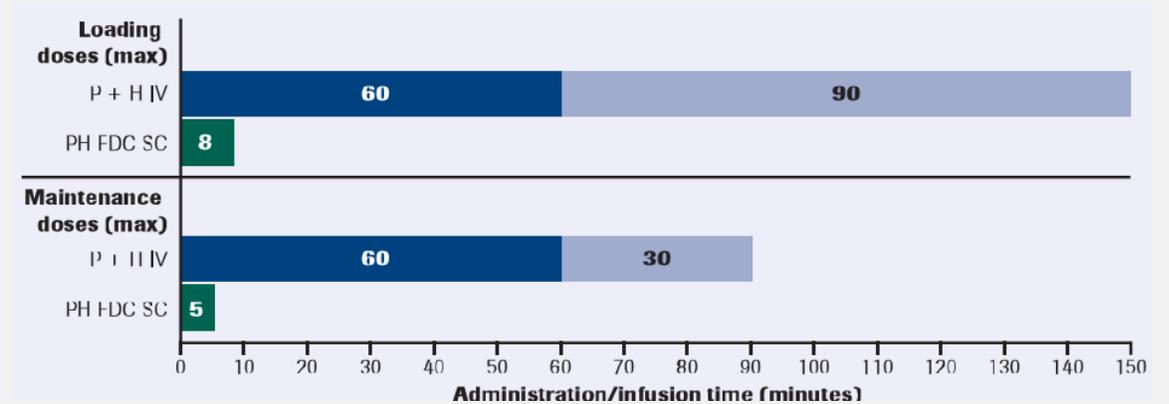


## tpCR rates nearly identical between IV and SC



- PH FDC SC was non-inferior to P+H IV based on pre dose cycle 8 P and H C<sub>trough</sub> concentrations
- tpCR nearly identical and in-line with data from prior studies
- Safety was comparable between arms

## FDC reduces administration and observation time



- PH FDC SC is administered in 5-8 minutes (compared to up to 2.5 hours for H+P IV)
- Strong patient preference for H+P FDC SC administration
- US/EU filing in early 2020

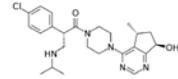
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## HR+/HER2- and TNBC strategy

**Elena Bernedo Arzac** | M.D., Head of Oncology, Global Product Strategy

# Largest breast cancer portfolio

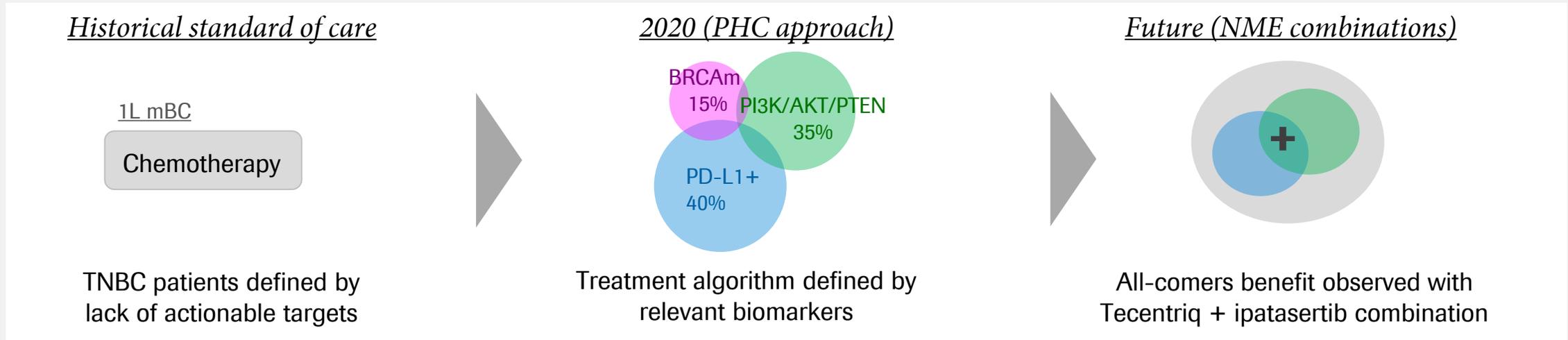
## *Expanding beyond HER2+ disease*

	 <i>mAb</i>	 <i>Small Molecule</i>	 <i>ADC</i>	 <i>CPI</i>	 <i>Bispecific</i>
<b>HER2+ BC</b> 20%	 <b>Herceptin</b> ✓  <b>PERJETA</b> pertuzumab <small>ACT HX INJECTION FOR ADJUVANTIVE USE</small> ✓		 <b>Kadcyla</b> ✓ <small>ado-trastuzumab emtansine for injection</small>	 <b>TECENTRIQ</b> <small>atezolizumab</small>	RG6194
<b>HR+/HER2- BC</b> 65%		ipatasertib (AKTi) GDC-0077 (PI3Ki) GDC-9545 (SERD)  <b>VENCLEXTA</b> <small>venetoclax tablets 150mg, 500mg, 1000mg</small>			
<b>TNBC</b> 15%		ipatasertib (AKTi)		 <b>TECENTRIQ</b> ✓ <small>atezolizumab</small>	

✓ = approved

# TNBC treatment landscape

## TNBC is not one disease, but a constellation of diseases

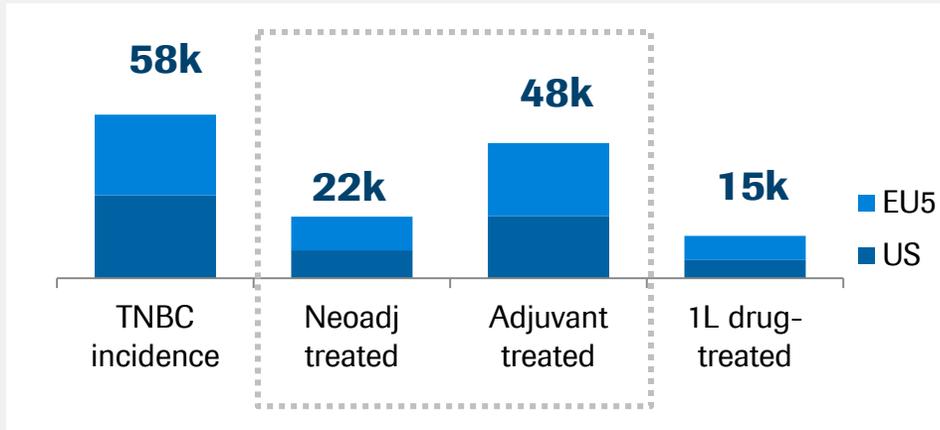


Tecentriq + chemo	IMpassion130	1L TNBC (PD-L1+)	✓
Tecentriq + chemo	IMpassion131	1L TNBC (PD-L1+)	
Tecentriq + chemo	IMpassion132	1L TNBC (PD-L1+)	
ipatasertib + chemo	IPATUNITY130	1L TNBC (PI3K/AKT/PTENm)	
ipatasertib + Tecentriq + chemo	IPATUNITY170	1L TNBC	

- **Tecentriq is the first new agent approved in TNBC in ~15 years**

# Expanding into early TNBC

## Significant opportunity in early TNBC



- 4.5x more patients treated with neoadjuvant/adjuvant disease than metastatic disease
- Number of neoadjuvant treated patients expected to increase further with new treatments



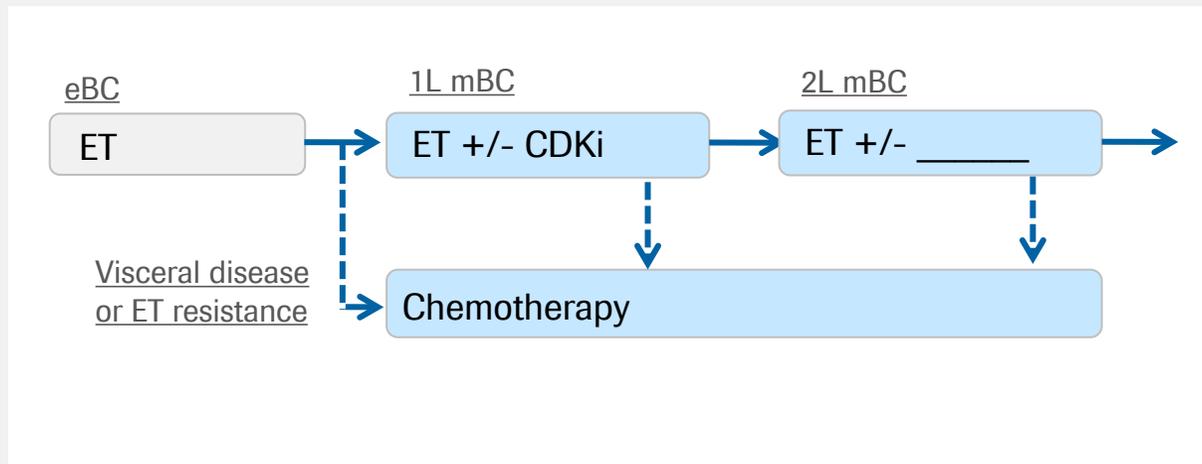
### IMpassion031 (Neoadjuvant)

*Trial passed futility analysis.  
Readout expected 1H 2020*

Tecentriq	IMpassion031	Neoadjuvant TNBC
	IMpassion030	Adjuvant TNBC
	GEPARDOUZE	Neoadj/Adj TNBC

# HR+/HER2- breast cancer: current treatment landscape

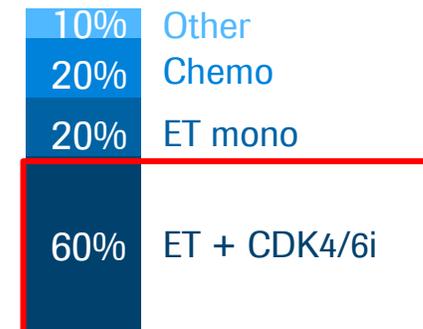
## Endocrine therapy is the backbone of HR+/HER2- treatment



- HR+/HER2- patients treated with Endocrine Therapy (e.g. letrozole, fulvestrant) as monotherapy or combination until resistance develops or visceral disease present
- High unmet need remains: despite the effectiveness of available therapies, many patients ultimately relapse or develop resistance

## ET + CDK4/6i combination is SOC in 1L

1L HR+/HER2- treatment rates



- Most common 1L regimen for metastatic patients is combination of CDK4/6i + ET

# HR+/HER2- breast cancer treatment landscape

Goal to combine with or replace 1L standard of care in HR+ breast cancer

**ET + CDK4/6i +**



Replace ET with  
GDC-9545 (SERD)



Add-on ipatasertib (AKT) or  
GDC-0077 (PI3K)

**Chemotherapy +**



Add-on ipatasertib (AKT)

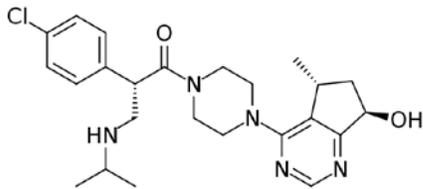
ipatasertib + chemo	IPATUNITY130	1L HR+ mBC (PIK3CA/AKT/PTENm)
ipatasertib + ET + CDKi	IPATUNITY150	1L HR+ mBC
GDC-0077 + ET + CDKi	Ph 3	1L HR+ mBC (PIK3CAm)
GDC-9545 + CDKi	Ph 3 planned	1L HR+ mBC



*Potential for future  
development in eBC*

# Ipatasertib

## Highly selective AKT inhibitor



- Oral, highly specific inhibitor of all three activated isoforms of AKT
- Clinical development in tumors with high frequency of PI3K/AKT/PTEN mutations (TNBC, HR+ mBC, CRPC)

## Ph 3 program

Ph 1	Ph 2	Ph 3	Approved
<b>IPATunity130</b>	1L TNBC 1L HR+ mBC		<b>Data 2020</b>
<b>IPATential150</b>	1L mCRPC		<b>Data 2020</b>
<b>IPATunity150</b>	1L HR+ mBC		
<b>IPATunity170</b>	1L TNBC		



*PI3K/AKT/PTEN diagnostic used for IPATunity130*

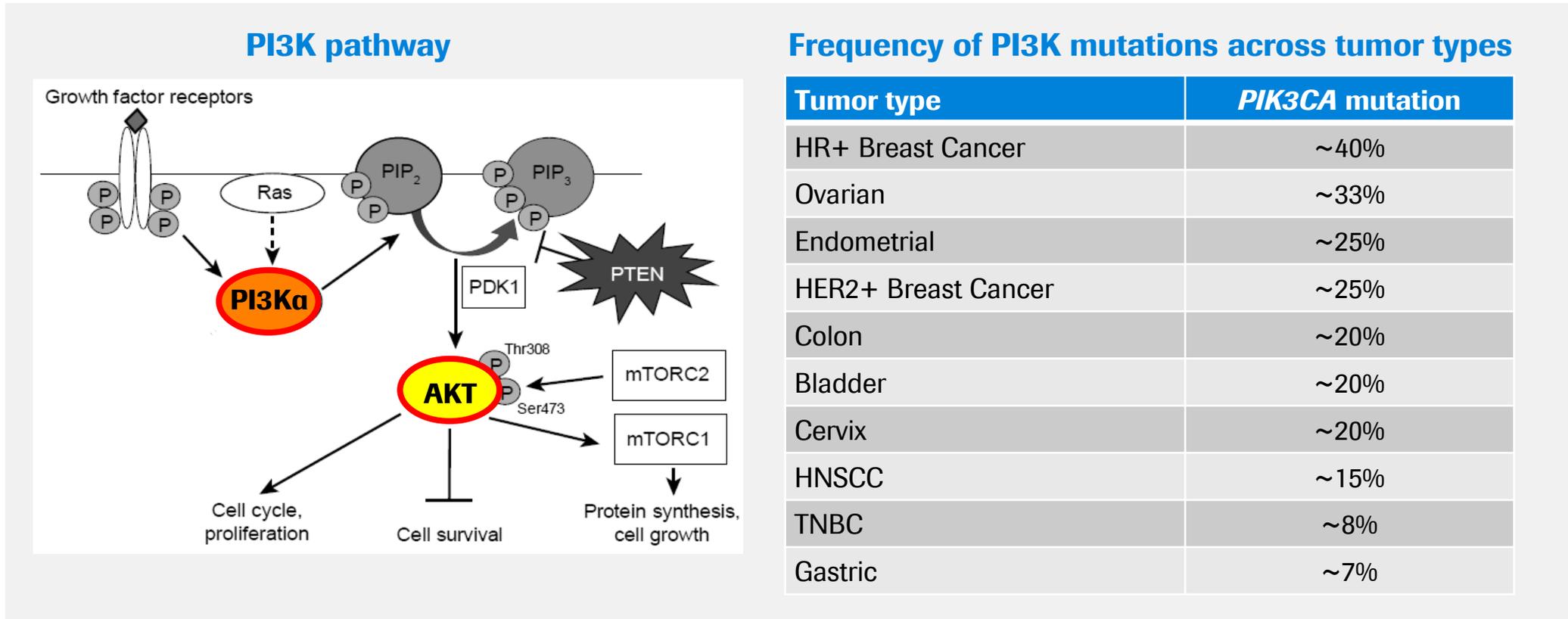
- **Three readouts in 2020 across 1L TNBC, 1L HR+ mBC, and 1L mCRPC**
  - IPATunity130: ipat + chemo 1L TNBC (dx+)
  - IPATunity130: ipat + chemo 1L HR+ mBC (dx+)
  - IPATential150: ipat + abiraterone 1L CRPC
- **New combinations advanced to Ph 3**
  - IPATunity150: ipat+fulv+palbo 1L HR+ mBC
  - IPATunity170: ipat+Tecentriq+chemo 1L TNBC

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## **Key early stage data presented at SABCS 2019: PI3K, SERD**

**Stuart Lutzker** | M.D., Ph.D. Head of Oncology, Early Clinical Development

# PI3K/AKT is the most frequently altered pathway in cancer

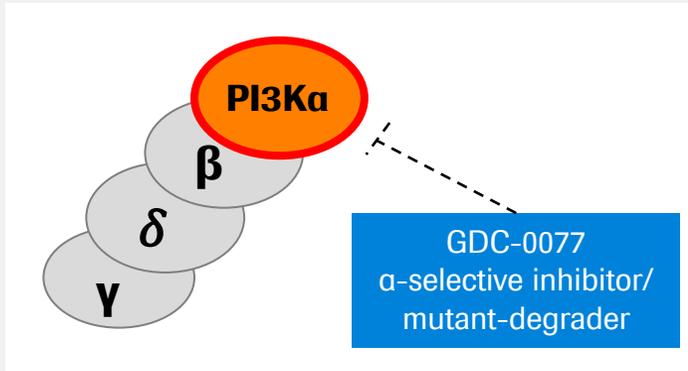


**14 million cancer patients diagnosed annually world wide, ~17% are *PIK3CA* mutant ~2.4M patients**

HR+ = hormone receptor positive; HNSCC= head and neck squamous cell carcinoma; TNBC = triple negative breast cancer

# GDC-0077 in *PIK3CA*-mutant HR+/HER2- mBC

## GDC-0077



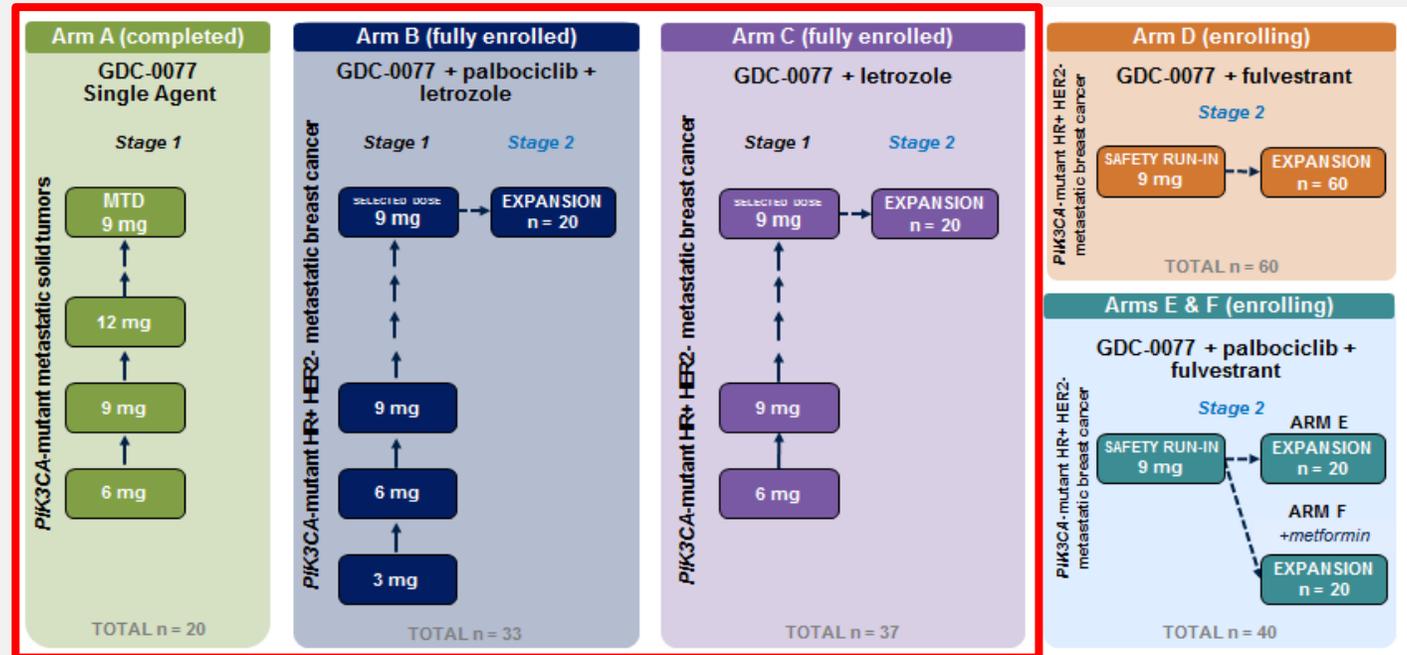
### Best in-class molecular properties:

- More selective for PI3K $\alpha$
- Degradation of mutant PI3K $\alpha$
- Greater, more durable target inhibition

### Potential for clinical differentiation:

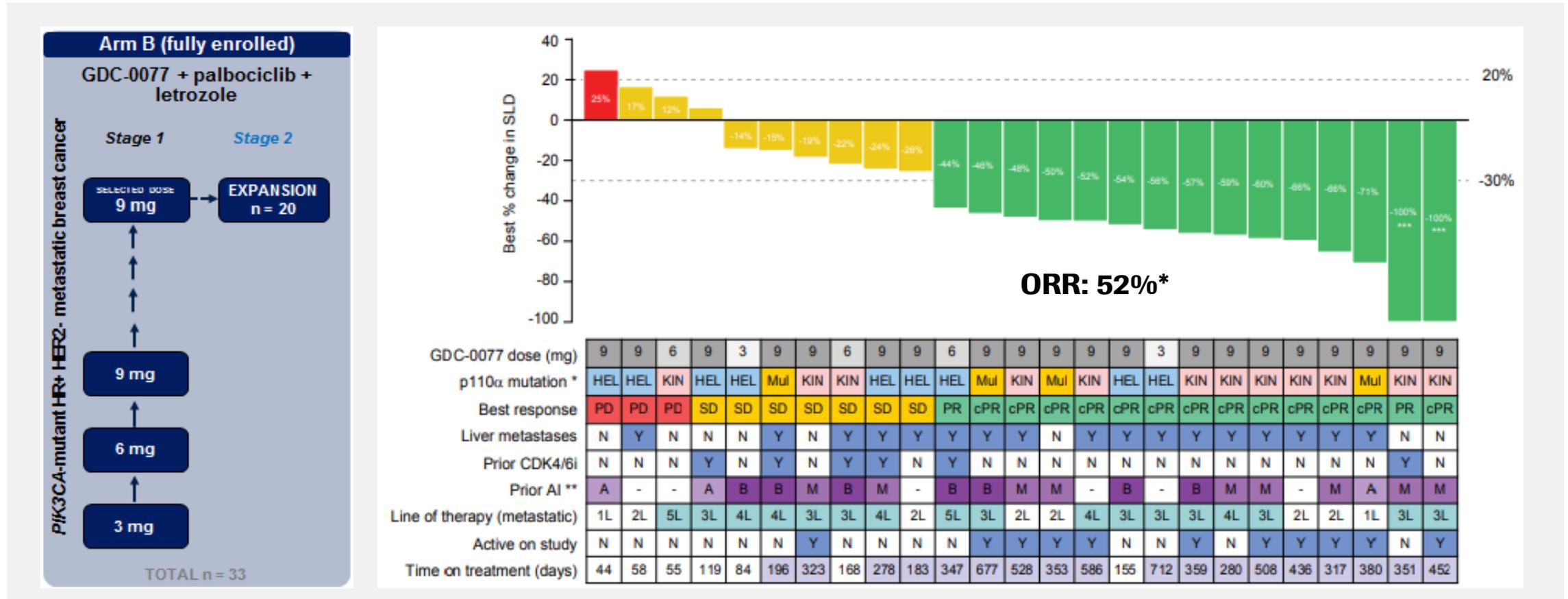
- Increased efficacy
- Greater safety margins
- Combination with CDK4/6i + ET

## Ph 1 development program



*Dose escalation data from single agent GDC-077 and combinations with letrozole and palbociclib + letrozole presented at SABCS 2019*

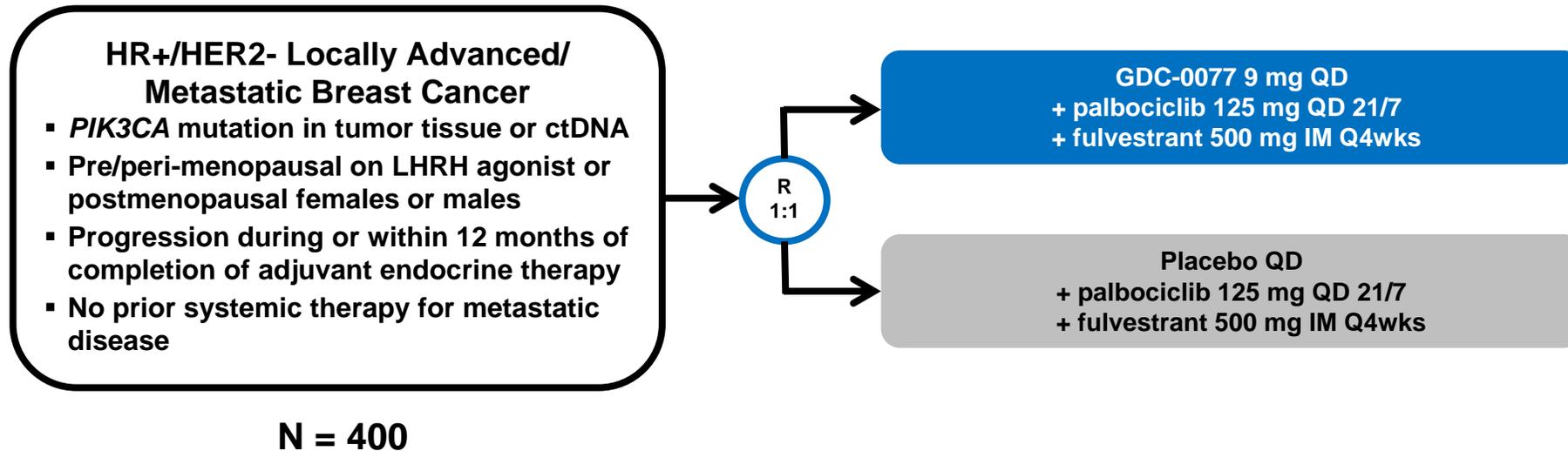
# GDC-0077 + CDK4/6i + ET demonstrates encouraging activity



**GDC-0077 can safely combine at its single agent recommended Ph 2 dose with palbo + letrozole at standard approved doses**

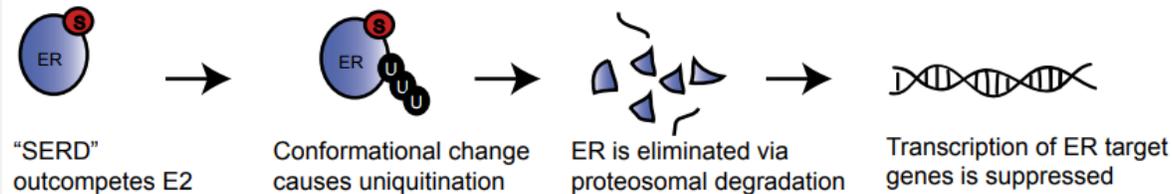
# GDC-0077 in *PIK3CA*-mutant HR+/HER2- mBC

## Ph III study in 1L *PIK3CA*-mutant HR+/HER2- mBC

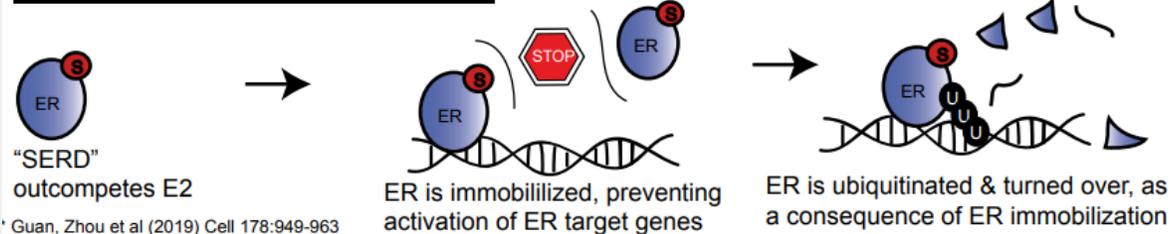


# GDC-9545 (SERD) in HR+/HER2- mBC

## ER Elimination Model of SERD Action



## ER Immobilization Model of SERD Action\*



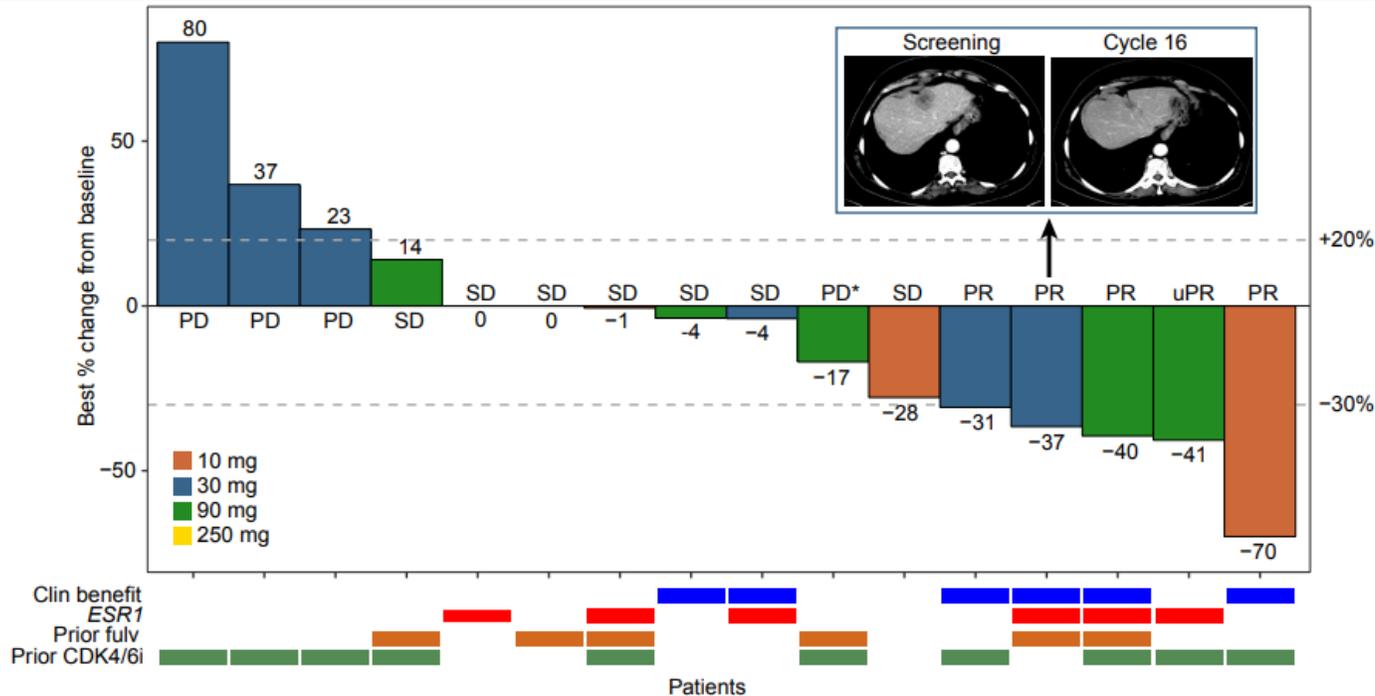
\* Guan, Zhou et al (2019) Cell 178:949-963

## GDC-9545 has best-in-class potential

- Oral route of administration
- Highly potent and improved efficacy *in vivo* vs. other SERDs
- Full ER pathway blockade
- Superior PK results in efficacy at low doses *in vivo*
- Wide nonclinical safety margins

# GDC-9545 (SERD) in HR+/HER2- mBC

## Ph 1 dose escalation: tumor responses



- Responses observed in pts with prior CDK4/6i and fulvestrant, and in pts with *ESR1*m
- Dose expansion cohorts with or without palbociclib are ongoing

## Safety

	AEs related to GDC-9545	
	Grade 3	All Grades
Nausea	0	6 (21%)
Arthralgia	0	6 (21%)
Constipation	0	3 (10%)
Diarrhea	0	5 (17%)
Fatigue	0	6 (21%)
Hot flush	0	3 (10%)
Bradycardia <sup>a</sup>	0	3 (10%)
ALT increased	0	3 (10%)
Dyspepsia	0	3 (10%)
Gastroesophageal reflux	0	3 (10%)

- Treatment related AEs were all Gr 1-2
- No patients withdrew or reduced dose due to AE
- Bradycardia was all Gr 1, asymptomatic, reversible

Program advancing to Ph 3; trial design in progress

*Doing now what patients need next*